Course curriculum for Second Professional BAMS

(PRESCRIBED BY NCISM)



Swasthavritta evam Yoga (SUBJECT CODE : AyUG-SW)

(Applicable from 2021-22 batch, from the academic year 2023-24 onwards for 5 years or until further notification by NCISM, whichever is earlier)





BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110058

NCISM

II Professional Ayurvedacharya (BAMS)

Subject Code : AyUG-SW

Summary

| Total number of Teaching hours: 400 | | | | | | | |
|-------------------------------------|------------|-----|----------|--|--|--|--|
| Lecture hours(LH)-Theor | у | | | | | | |
| Paper I | 75 | 150 | 150(LH) | | | | |
| Paper II | 75 | | | | | | |
| Non Lecture hours(NLH) | -Theory | | | | | | |
| Paper I & II | 75 | 250 | 250(NLH) | | | | |
| Non Lecture hours(NLH) | -Practical | | | | | | |
| Paper I & II | 175 | | | | | | |

| Examination (Papers & Mark Distribution) | | | | | | | | | |
|--|------------------------|-----------|---------------|-------------------------|-----|--|--|--|--|
| Item | Theory Component Marks | F | Practical Com | actical Component Marks | | | | | |
| | | Practical | Viva | Elective | IA | | | | |
| Paper I | 100 | 100 | -0 | (Set SC) | • • | | | | |
| Paper II | 100 | 100 | 60 | 10 | 30 | | | | |
| Sub-Total | 200 | 200 | | | | | | | |
| Total marks | | 400 | 400 | | | | | | |

Important Note:-The User Manual II BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual II before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic.

In case of difficulty and questions regarding curriculum write to cur.imp@ncismindia.org

PREFACE

Health care, especially the preventive health care is coming to a fore front, most so during recent years due to pandemic situation. In fact, the preventive health care is indeed the strength of Ayurveda as its primary motto itself is 'Swasthasya swasthya rakshanam', Keep sustaining health of a healthy and nourishes it. The students of Ayurveda need to understand it better, who can carry this message and contribute for building a healthy India, may the entire world. Keeping this in mind any effort to sensitize the student community to understand the basics of Swasthavritta, the preventive health care of Ayurveda is laudable. Swasthavritta is an important subject of the BAMS program for the undergraduate students of Ayurveda. The term Swastha means healthy individual and Vritta means actions or regimen thus Swasthavritta denotes the actions or regimen which can be observed to maintain the health of a healthy individual and to prevent the diseases. This subject refers to the Preventive medicine and social medicine/ Community medicine of contemporary medical science.

Swasthavritta deals with the Vaiyaktika swasthavritta (Individualized lifestyle including in terms of prevention, promotion & maintainance of health) incudes Dinacharya, Ritucharya, Sadvritta, Rasayana, Pathya-Apathya for both Swastha as well as disease condition. Samajika swasthavritta- Community health deals with Janapadodhwamsa, Environmental health, Occupational health, School health and National health programs etc, along with these topics Swasthavritta also deals Yoga and Naturopathy. Thus, Swasthavritta provides holistic health care to community.

New curriculum of Swasthavritta is designed considering cognitive, affective, and psychomotor domains. There are group discussions, workshops, field visits, health institutional visits, factory visits health surveys and activities beyond the textbook during the practical hours like preparation of charts, models, seminar presentations by students. Swasthavritta subject also deals with teaching learning methods like role play, flipped the classroom, etc. Some assessment methods like OSPE, PBL, DOPS, CBD, skill assessment, etc are incorporated.

This curriculum serves as a valuable resource for both educators and students, guiding them through the fascinating realm of swasthavritta. May the knwoledge gained from this curriculum empower students to make a positive impact in promoting health, preventing diseases and creating a healthier society. This curriculum epmowers the Ayrervedic graduates who capable of designing customized individualized lifestyle as well as community health measures as per Ayurvedic principles. This also makes graduates to become health educators, who will take part in national health programs, who can assess community needs and develop measures to counteract the health problems and make them to prepare competent community physicians.

INDEX

| Course Code and Name of Course | |
|--|------|
| Table 1- Course learning outcomes and matched PO | 5 |
| Table 2 : Contents of Course | |
| Paper 1 | 6 |
| Paper 2 | . 10 |
| Table 3: Learning objectives (Theory) of Course | . 14 |
| Paper 1 | . 14 |
| Paper 2 | . 27 |
| List of Practicals | |
| Table 4: Learning objectives (Practical) | . 38 |
| Practical 1 | . 38 |
| Table 4a: List of Practical | . 45 |
| Activity | |
| Table 5- Teaching learning method | |
| Table 6: Assessment Summary: Assessment is subdivided in A to H points | . 51 |
| 6 A-Number of Papers and Marks Distribution | . 51 |
| 6 B - Scheme of Assessment (formative and Summative) | . 51 |
| 6 C - Calculation Method for Internal assessment Marks | |
| 6 D - Evaluation Methods for Periodical Assessment | |
| 6 E Question Paper Pattern | |
| 6 F Distribution of theory examination | . 54 |
| Paper 1 | |
| Paper 2 | . 54 |
| 6 G Blue print of paper I & II | . 56 |
| 6 H Distribution of Practical Exam | . 59 |
| References Books/ Resources | |
| Abbreviations | . 65 |

Course Code and Name of Course

| Course code | Name of Course |
|-------------|-------------------------|
| AyUG-SW | Swasthavritta evam Yoga |

Table 1- Course learning outcomes and matched PO

| SR1 CO No | A1 Course learning Outcomes (CO) AyUG-SW At the end of the course AyUG-SW, the students should be able to- | B1 Course learning Outcomes matched with program learning outcomes. |
|-----------------|--|---|
| CO1 | Demonstrate application of principles of Swasthavritta in lifestyle modifications. | PO1,PO2,PO4,PO6 |
| CO2 | Assess the health status and advise preventive & promotive measures according to Ayurveda principles | PO3 |
| CO3 | Demonstrate and advise Yoga and Naturopathy as health promotive and disease preventive regimen | PO1,PO4 |
| CO4 | Understand and apply the principles and components of primary health care and health policies to achieve the goal of health for all | PO2,PO5 |
| CO5 | Advocate and propagate preventive principles of Ayurveda and contemporary sciences through Information, Education and Communication(IEC) | PO8 |
| CO6 | Conduct community surveys and apply epidemiological principles for the assessment of health & morbidity as a community physician | PO2,PO5 |
| CO7 | Understand and apply the principles of environmental health and its effects on public health with control measures | PO3,PO4 |
| CO8 | Demonstrate skills and research aptitude for the promotion of health and prevention of diseases | PO9 |

| Sr. No | A2 List of Topics | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
|-----------|---|------------|-------------|------------------------|--------------------------------|
| 1 | Swastha and Swasthya Definition of Swasthavritta and its objective. Swasthalakshanas, Arogyalakshanas, Dhatusamyalakshanas. Concept of Health & Operational definition of health. Importance of Shodhana in Swastha in relation to Sanchita & Asanchitha Dosha & Classification of Swastha purusha as Sanchita dosha and Asanchita Dosha.Dimensions of health -Physical, Mental and Social. Concept of well-being : objective component of well-being - standard of living and level of living and subjective component of well-being - Quality of Life. One health concept / Vasudhaiva Kutumbakam" or "One Earth · One Family- One Future". | 1 | 6 | 3 | 0 |
| 2 | Healthy Life style -Dinacharya (Daily regimen) Concept of Primordial, Primary, Secondary and Tertiary Prevention along with examples in Ayurveda. Importance of Ahara and Vihara as the health promotive and disease preventive measures. Importance of Niyata kala vihara (Dinacharya, Ritucharya) and Aniyata kalaVihara (Vegadharana, Vegaudirana, Ritushodhana, Brumhana and Bhutadi asparshana) for health promotion and disease prevention. Concept of waking up at 'Brahme muhurta' in the present scenario and the effect of early rise on health, sleep, alertness and memory. UshaJalapana' (Drinking water in early morning). Importance of Malatyaga in vata kaala - early morning (Good Bowel Habits.). Mukhaprakshalana and face washes used currently. Concept of Dantadhavana and modern-day brushing techniques and dentifrices. Concept of Jihwanirlekhana and the tools used in today's era and their benefits. Concept of Anjana as a health promotive measure. Kavala and gandusha for oral hygiene including mouthwashes available in the market. Abhyanga as a shealth promotive measure. Importance of the Tambula. Prayogika Dhoomapana (Practicable & non- practicable Dhoomapana- inhalation of herbal fumes/ herbal inhalers with their benefits and contraindications. Ill effects of tobacco smoking of various sorts viz. beedi, cigarette, hookah on health. Applied aspects of Sarvanga Abhyanga, Padabhyanga, Shiroabhyanga and their possible physiological effects. Application of Abhyanga according to different age groups and occupation/activity. Different snehas/oils to be used for daily abhyanga as per seasons and geographical variations. Concept of Vyayama and present- | 1 | 38 | 8 | 5 |

| | day practices such as aerobic exercises, muscle strengthening exercises etc.to be practiced as per prakriti, age and occupation. Ardhashakti lakshanas of vyayama and the consequences of ati vyayama. Udwartana, Utsadana Udgharshana . Snana- Types of different types of bath and Physiological effects of snana on body and mind. Importance and benefits of Anulepana. Merits and demerits of present-day applications like face powder, face pack, balm, lotions, lipsticks, deodorants and perfumes etc. Importance of proper clothing (Vastradharana) in social life. | | | | |
|---|---|---|----|---|---|
| 3 | Ratricharya Ratri bhojanvidhi and its relation to health. Ratri shayana vidhi in relation to the proper time of sleep. Relation between Nidra and health. Effects of Yukta & Ayukta nidra. Effects of Ratri Jagarana, Diwaswapna, Anidra, Atinidra and Akala Nidra. Ahara and Vihara Causing sound sleep as well as disturbed sleep. Formulation of the duration of sleep according to age and Sleep in healthy and ailing persons.Various Aspects of Sleep like: a. Daytime Sleepiness and Alertness b. Sleep Deprivation c. Sleep and Host Defense d. Master Circadian Clock and Master Circadian Rhythm e. Human Circadian Timing System and Sleep-Wake Regulation f. Circadian Rhythms in Sleepiness, Alertness, and Performance g. Circadian Disorders of the Sleep-Wake Cycle. Sleep apnea , insomnia, narcolepsy and restless leg syndrome. Solutions to Asatmya jagarana (sleep disorders). Importance of observing brahmacharya and abrahmacharya in ratricharya in relation to health. Brahmacharya with special reference to lifestyle guidelines. Reproductive and sexual health according Ayurveda. | 1 | | 6 | 1 |
| 4 | Ritucharya Classification of kaala , Adana kala and visarga kala , identification of seasons based on the ritu lakshanas in different geographical areas. Sanchaya- Prakopa- Prashamana of Dosha with their gunas in each ritu. Relation of Agni , Bala and Ritu with its application. Ritu shodhana for the prevention of diseases. Pathya - Apathya in regards to Ahara -Vihara in all six ritus in present scenario. Importance of ahara and vihara in ritu sandhi and Yamadanshtra kala. Rituharitaki as a rasayana with research updates. Effects of Rituviparyaya on health and its relation to janapadaudhwamsa/maraka vyadhis with present day examples. | 1 | | 5 | 2 |
| 5 | Roganutpadaniya Concept of vegadharana and vega-udirana in relation to health and morbidity.Symptoms and management principles of adharaniya vega janya vyadhis from | 1 | 13 | 2 | 1 |

| powder | rayee.Concept of vegaudirana (viz. Use of snuffing r, forcible evacuation of bowels & bladder etc.). ance of dharaniya vegas in promotion of mental | | | | |
|--|--|---|----|----|----|
| and spi prevent the pre mental health, health, health | itta measures for the maintenance of personal ,social ritual health. Observance of Sadvritta for the tion of Adharma. Achara Rasayana" and its role in vention and control of diseases.Characteristics of a ly healthy person, warning signals of poor mental types of mental illness and causes of mental ill- Mental health services and comprehensive mental programme. Role of trigunas and satvavajaya in health promotion in present era. Digital health | 1 | | 2 | 1 |
| Ayurve aharadu Ahara ashanaj Apathy Ahara Apatay Concep Importa era. In mainter dravya Dhanya Dhanya Ieafy v Phalava (Sugaro Dugdh Upayog Kritanr and Jal their ut Daily A and def Vitami for an i physiol hygiene Food h adulter | cance of Ahara for health and well-being according to eda & Contemporary science. Classification of ravyas as per Ayurveda & Contemporary science. vidhividhana, Ahara sevanakala & Dwadasha pravicharana . Applied aspect of Pathyahara, rahara, Samashana, Adhyashana, Vishamashana. &vihara leading to Santarpanajanya evam panajanyavyadhi and importance of upavasa and t of intermittent fasting. Benefits of Shadrasabhojana. ance of Ashta aharavidhivisesha ayatanani in present nportance of Nityasevaniyadravyas in the nance of health. Properties (Guna& karmas) of Ahara s in the following vargas with their nutritive value: avarga – Shuka Dhanya (Cereals and Millets), Shami a (Pulses), Shaka and Haritavarga (Leafy and Non egatables), Kanda varga (roots and tubers), arga (Fruits), Taila varga (Fats and Oils), Ikshuvarga cane Products) &Madyavarga(Alcoholic Beverages), avarga (Milk and Milk products), Ahara giVarga (Spices & Condiments), navarga(Prepared Food), Mamsavarga (Meat types) aVarga.Definition of Pro-biotics and Pre-biotics and ility. Proximate principles of Food - Recommended Allowance according to various conditions, Sources ficiency diseases of Protein, Carbohydrate, Fats, ns, and Minerals. Definition of Balanced diet and diet ndividual depending on age, body weight and logical status and Social Aspects of Nutrition.Food e, Sanitation of eating places, Preservation of food, andlers, Foodborne diseases, Food fortification, Food ation and Food toxicants. Milk Hygiene, Milk sition, Source of infection for Milk, Milk borne | 1 | 20 | 20 | 15 |

| | diseases, Clean and Safe milk and Pasteurization of milk Meat Hygiene, Meat inspection, Slaughterhouse and Freshness of fish and egg. Safety and hygiene measures for Fruits and Vegetables.Formulation of Pathya-Apathya diet for prevention of lifestyle disorders such as Obesity, Diabetes mellitus,Cardiovascular diseases and Acid peptic diseases.Description of Food safety and standards regulation(Ayurveda Ahara Regulations), 2022 and Food safety and standards Act, 2006. Different Dietary Supplements and Ergogenic Aids.Impact of different dietary patterns: Mediterranean diet, Keto Diet, DASH diet, the MIND diet, Vegan diet, Ovo-lacto-vegetarian, Pesco- vegetarian, Plant-based diet, Intermittent diet, the Nordic diet, importance of organic foods, merits and demerits of genetically modified foods and inflammatory foods such as fried foods, cookies, hot dogs, red meat, refined grains, pizza, burger etc., and instant foods like Maggi etc., Concept of slow and fast foods and impact of cooking processes like boiling, steaming, sautéing, fermenting etc. (samskara) on health. Definition of Nutraceuticals, Nutrigenomics, Nutrigenetics. Concept of Viruddhaahara with classical and modern-day examples and the application of this in the prevention of diseases | | | | |
|---|--|---|----|----|---|
| 8 | Rasayana for Swastha Definition of Rasayana and benefits of Rasayana. Classification and types of Rasayana with examples. Urjaskara Rasayanas as per age and occupations /Activities .Antioxidant & immunomodulatory effects of Rasayana with reference to research articles. Importance of lifestyle counselling with its methods. | 1 | 5 | 2 | 2 |
| 9 | Yoga Etymology/derivation of the word 'Yoga'. Definitions of Yoga according to PatanjaliYogasutras, Bhagavad Gita and Charaka Samhita. Difference between Rajayoga, Hathayoga and Karmayoga.Yogabhyasa Pratibhandhakas and Yoga Siddhikarabhavas. Mitahara and Pathya-apathyas during Yogabhyasa . Concept of Panchakosha theory. Description of Ashtangas of Yoga - Yama , Niyama , Asana .Pranayama , Pratyahara, Dharana, Dhyana and Samadhi. Suryanamaskara . Description of Shatkarmas - Dhauti, Basti, Neti, Trataka, Nauli, and Kapalabhati.Bandha - procedure and benefits of Mulabandha, Jalandharabandha and Uddiyanabandha. Mudras - Shanmukhi mudra and Jnana mudra. Shatchakras and their importance in Yoga practice. Description of Ida-Pingala-Sushumna nadis and their importance in yoga practice.Concept of Moksha according to Charaka , Muktatmalakshana and Moksha upayas.Importance of International Day of Yoga (IDY). | 2 | 18 | 22 | 6 |

| 10 | Adverse effects of improper Yoga practices Naturopathy Basic principles of Naturopathy. Concept of Panchabhutopasana.Therapeutic effects of Mud therapy. Therapeutic effects of Sun bath. Fasting therapy - its types and benefits. Hydrotherapy - types of water used based on the temperature and therapeutic effects of Hydrotherapy. Therapeutic effects of Massage | 2 | | 5 | 4 |
|------|---|---|-----|-------|-------|
| Tota | al Marks | | 100 | 75 hr | 37 hr |

| Sr. No | A2 List of Topics | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
|-----------|--|------------|-------------|------------------------|--------------------------------|
| 11 | Janapadodhwamsa / Maraka Vyadhi Causes of Janapadodhwamsa/ maraka vyadhi. Manifestation and control measures of Janapadodhwamsa.Principles and uses of epidemiology. Dynamics of disease transmission.Theory of disease causation - epidemiological triad and natural history of disease.Concept of prevention, modes of intervention, risk factors, incidence and prevalence.Susceptible host and host defense. Immunizing Agents. Concept of vyadhikshamatwa.Investigation of an epidemic. Prevention and control of an epidemic. Sankramaka roga as per Ayurveda.Epidemiological determinants, brief pathology ,transmission, incubation period , clinical features, diagnosis and preventive measures of 1. Droplet Infections such as Chicken Pox, Measles, Rubella, Diphtheria, Pertussis, Mumps, Tuberculosis, SARS, Influenza, Pneumonia, Covid-19 and Leprosy. 2. Water borne Infections / intestinal infections - Cholera, Polio, Viral Hepatitis, Typhoid. 3. Intestinal infestations – Ascariasis, Hook worm and Tape worm. 4.Emerging and re-emerging diseases. Explain Role of Ayurveda in Epidemics like COVID-19, Zika Virus , H1N1,H3N2,etc., 5.Sexually transmitted diseases (STDs) with prevention and control - HIV/ AIDS, Syphilis and Gonorrhea. Role of Ayurveda in the prevention and control with recent research updates of Lifestyle diseases such as DM, Obesity, Coronary artery disease (CAD) and Cancer. Epidemic Diseases (Amendment) Ordinance Act,2020 ., | 2 | 10 | 37 | 10 |
| 12 | Environmental health | 2 | 16 | 10 | 5 |

| | Definition of different term used in relation to disinfection. Types of disinfection. Natural agents, Physical agents and Chemical agents of disinfection. Recommended disinfection procedures of feces & urine, sputum, and room. Ayurvedic disinfection methods. | | | | |
|----|--|---|----|---|---|
| 17 | Primary health care Definition of Primary Health Care. Principles and elements of primary health care. Levels of health care. Structure of Primary health care at village, sub-center, Primary health center (PHC), Community health center (CHC) and Rural hospital levels. Primary health care in Health insurance, Private agencies, Voluntary health agencies, NGOs and the AYUSH sector. Role of Ayurveda in Primary Health Care. | 2 | 20 | 2 | 1 |
| 18 | Mother and Child health care Objectives of Maternal and Child Care services. MCH problems & indicators of MCH care. | 2 | | 1 | 1 |
| 19 | Family welfare programme Definition of Demography and sources of demographic statistics in India. Demographic cycle & definition of life expectancy.Definition of family planning, eligible couple and target couple. Objectives of family planning. Problems of population explosion . National population policy.Methods of Contraceptive (Fertility Regulating Methods). | 2 | | 2 | 2 |
| 20 | Preventive Geriatrics Health problems of the aged and prevention and control measures. Relation between lifestyle and healthy aging. Role of Rasayana in preventive geriatrics. | 2 | | 1 | 1 |
| 21 | World Health Organization and International health agencies Definition of World Health organization. Structure, regions, and works of the World Health Organization. Functions of various international health agencies - United Nations health agencies, Bilateral health agencies and Non- Governmental agencies. Contribution of the World health organization to the global acceptance of Ayurveda. | 2 | 19 | 3 | 1 |
| 22 | Vital Statistics Definition of Vital Statistics. Sources of Vital statistics. Fertility, Morbidity and Mortality rates. Registration of Birth and Death Act, 1969 | 2 | | 1 | 1 |
| 23 | Health Administration Health administration including AYUSH at the Central, State, District, and Village levels. | 2 | | 2 | 1 |
| 24 | National Health Programmes | 2 | 15 | 7 | 3 |

| Paper 1 Princi | ples of Swasthavritta, Yoga and Naturopathy | | | | | | | | |
|-------------------------|--|----------------------|--|--|-------------------------|--|---------------------------------------|------------|-----------------------|
| A3 Course outcome | B3 Learning Objective (At the end of the session, the students should be able to) | C3 Doma in/sub | D3 Must to know / desirable to know / Nice to know | E3 Level Does/ Show s how/ Know Know/ | F3 T-L meth od | G3 Assessment (Refer abbreviations) | H3 Form ative/ summ ative | I3 Term | J3 Integr ation |
| Topic 1 Swas | tha and Swasthya (Lecture :3 hours, Non lecture: 0 hours) | | | | | | | | |
| CO1 | Define Swasthavritta and describe its objective. | CK | МК | K | L | TT-Theory | S | Ι | |
| CO1 | Describe and compare Swasthalakshanas Arogyalakshanas,Dhatusamyalakshanas. Describe Concept of Health & Operational definition of health. | CC | МК | К | L&PP T | TT-Theory | S | Ι | |
| CO1 | Describe the Importance of Shodhana in Swastha in relation to Sanchita& Asanchitha Dosha & Classify Swastha purusha as Sanchita dosha and Asanchita Dosha. | CC | МК | КН | L | M-CHT | S | Ι | |
| CO1 | Explain the Physical, Mental and Social dimensions of health. | СК | МК | КН | L&G D | T- EW | S | Ι | |
| CO1,CO2 | Describe the objective component of well-being - standard of living and level of living and subjective component of well-being - Quality of Life. | СК | МК | КН | L | T- EW | S | Ι | |
| CO1,CO2,CO 7 | Explain one health concept / Vasudhaiva Kutumbakam" or "One Earth \cdot One Family One Future" | СК | DK | К | L | T- EW | F | Ι | |

| CO1,CO2 | Explain the Primordial, Primary, Secondary, and Tertiary Preventive measures in the context of Ayurveda with examples | СК | МК | КН | L&PP T,SD L | TT-Theory | F&S | Ι | |
|---------|--|-----|----|----|-------------------|-----------|-----|---|----|
| CO1,CO2 | Explain the importance of Ahara and Vihara as the health promotive and disease preventive measures. | СК | МК | КН | L&PP T | TT-Theory | S | Ι | |
| CO1,CO2 | Describe the importance of Niyata kala vihara (Dinacharya, Ritucharya) and Aniyata kala Vihara (Vegadharana, Vegaudirana, Ritushodhana, Brumhana and Bhutadi asparshanaa) for health promotion and disease prevention. | CAN | МК | KH | L&PP T | T- EW | S | Ι | |
| CO1,CO2 | Explore and analyse the concept of waking up at 'Brahma muhurta'in the present scenario and the effect of early rise on health, sleep, alertness and memory | CAN | DK | КН | IBL | DEB | F | Ι | |
| CO1,CO2 | Describe the time, quantity and benefits of 'Usha Jalapana' (Drinking water in early morning). | CC | МК | K | L&PP T | T- EW | S | I | |
| CO1,CO2 | Explain the Importance of Malatyaga in vata kaala - early morning (Good Bowel Habits) | СК | МК | КН | L&PP T | TT-Theory | S | I | |
| CO1,CO2 | Explain the procedure, dravyas and benefits of Mukhaprakshalana and face washes used currently. | СК | МК | КН | L&PP T | T- EW | F&S | Ι | |
| CO1,CO2 | Describe the time, procedure, benefits, contraindications and herbs used as per rasa for dantadhavana and modern-day brushing techniques and dentifrices. | CC | МК | КН | L&PP T | T- EW | F&S | Ι | |
| CO1,CO2 | Describe jihwanirlekhana, explain the tools used in today's era and their benefits. | CAP | МК | КН | SDL | TT-Theory | F&S | Ι | |
| CO1,CO2 | Explain the Anjana dravyas for Swastha and their benefits | СК | МК | К | L | INT | F&S | Ι | V- |

| | | | | | | | | | SHL |
|---------|---|-----|----|----|-----------|-----------|-----|---|------|
| CO1,CO2 | Describe the occupation /activity in which Anjana can be used as a health promotive measure | CS | NK | КН | SDL | O-QZ | F | Ι | |
| CO1,CO2 | Explain the dravyas used with their doses for Pratimarsha Nasya and their benefits. | CC | МК | КН | L&PP T | T- EW | F&S | Ι | V-PC |
| CO1,CO2 | Describe the various kaal for administering Pratimarsha Nasya as per day and season (ritu) | САР | МК | КН | L&PP T | P-VIVA | F&S | Ι | V-PC |
| CO1,CO2 | Describe the occupation /activity in which Pratimarsha Nasya can be used as a health promotive measure. | CAP | MK | КН | L&G D | INT | F&S | Ι | V-PC |
| CO1,CO2 | Describe the ingredients, procedure and benefits of kavala and gandusha for oral hygiene including mouthwashes available in the market | CAP | МК | КН | L&PP T | TT-Theory | F&S | Ι | |
| CO1,CO2 | Mention different snehas/oils to be used for daily abhyanga as per seasons and geographical variations. | СК | MK | К | L&PP T | INT | F&S | Ι | |
| CO1,CO2 | Justify the importance of the classical tambula by comparing it with the present-day betel chewing. | CE | DK | КН | TBL | TT-Theory | F | Ι | |
| CO1,CO2 | Explain the practical application of Prayogika Dhoomapana (inhalation of herbal fumes/ herbal inhalers) with their benefits and contraindications | CAP | МК | SH | BL | TT-Theory | S | Ι | |
| CO1,CO2 | Explain the ill effects of tobacco smoking of various sorts viz. beedi, cigarette, hookah on health | CAP | МК | КН | ECE | P-CASE | F&S | Ι | |
| CO1,CO2 | Describe the applied aspects of Sarvanga Abhyanga, Padabhyanga, Shiroabhyanga and | CAP | MK | КН | DIS | T- EW | F&S | Ι | V-PC |
| CO1,CO2 | Explain the application of Abhyanga according to different age groups and occupation/activity. | CAP | DK | КН | SDL | T-CS | F | Ι | V-PC |

| CO1,CO2 | Explain the indications, contraindications and benefits of Vyayama. | CK | MK | КН | L&PP T | T- EW | F&S | Ι | |
|-------------|---|-----|----|----|-----------|-----------|-----|---|------|
| CO1,CO2 | Describe the types & benefits of vyayama and present-day practices such as aerobic exercises, muscle strengthening exercises etc.to be practiced as per prakriti, age and occupation. | CAP | МК | КН | DIS | CR-RED | F&S | Ι | |
| CO1,CO2 | Describe the assessment of ardhashakti lakshanas of vyayama and the consequences of ati vyayama. | CE | МК | KH | DIS | TT-Theory | F&S | Ι | |
| CO1,CO2 | Describe and compare the dravyas, benefits, and application of Udvartana, Udgharshana and Utsadana. | CAN | МК | КН | L&PP T | M-CHT | F&S | Ι | V-KC |
| CO1,CO2 | Explain the physiological effects of snana on body and mind and explain the reasons for contraindications of Snana. | CAN | МК | KH | L&PP T | CR-W | F&S | Ι | |
| CO1,CO2 | Explain the importance and benefits of Anulepana. | СК | МК | KH | L&PP T | P-VIVA | F&S | Ι | |
| CO1,CO2 | Describe the merits and demerits of present-day applications like face powder, face pack, balm, lotions, lipsticks, deodorants and perfumes. | CAP | NK | КН | PrBL | CL-PR | F | Ι | |
| CO1,CO2 | Explain the importance of proper clothing (vastradharana) in social life. | СК | МК | KH | L&PP T | INT | F&S | Ι | |
| Topic 3 Rat | tricharya (Lecture :6 hours, Non lecture: 1 hours) | • | | | | | | • | • |
| CO1,CO2 | Describe ratri bhojanvidhi and its relation to health. | CK | МК | KH | L&PP T | T- EW | F&S | Ι | |
| CO1,CO2 | Describe ratri shayana vidhi in relation to the proper time of sleep. | СК | МК | КН | L&PP T | T- EW | F&S | Ι | |
| CO1,CO2 | Explain the relation between Nidra and health. | СК | МК | КН | L&PP T | T- EW | F&S | Ι | |

| CO1,CO2 | Describe effects of Yukta & Ayukta nidra. | СК | МК | КН | L&PP T | T- EW | F&S | Ι | |
|-----------------|--|-----|----|----|-----------|-----------|-----|-------|--|
| CO1,CO2 | Explain the effects of Ratri Jagarana, Diwaswapna, Anidra, Atinidra and Akala Nidra. | СК | МК | K | L&PP T | T- EW | F&S | Ι | |
| CO1,CO2 | Identify Ahara and Vihara Causing sound sleep as well as disturbed sleep. | CAN | DK | КН | SDL | INT | F | Ι | |
| CO1,CO2 | Formulate the duration of sleep according to age, Sleep in healthy and ailing persons. | CE | DK | КН | SDL | INT | F | Ι | |
| CO1,CO2,CO 8 | Explain various Aspects of Sleep like: a. Daytime Sleepiness and Alertness b. Sleep Deprivation c. Sleep and Host Defense d. Master Circadian Clock and Master Circadian Rhythm e. Human Circadian Timing System and Sleep-Wake Regulation f. Circadian Rhythms in Sleepiness, Alertness, and Performance g. Circadian Disorders of the Sleep-Wake Cycle | СК | DK | КН | L&PP T | C-INT | F | I | |
| CO1,CO2,CO 8 | Explain Sleep apnoea, insomnia, narcolepsy and restless leg syndrome. Explain solutions to Asatmya jagarana (sleep disorders.) | СК | DK | КН | L&PP T | C-INT | F | Ι | |
| CO1 | Explain the importance of observing brahmacharya and abrahmacharya in relation to health | CAP | МК | КН | L&G D | TT-Theory | F&S | Ι | |
| CO1 | Describe Brahmacharya with specail reference to lifestyle guidelines | CAP | МК | КН | L&G D | TT-Theory | F&S | Ι | |
| CO1 | Describe reproductive and sexual health according to Ayurveda | CAP | МК | КН | L&G D | TT-Theory | F&S | Ι | |
| Topic 4 Ritu | charya (Lecture :5 hours, Non lecture: 2 hours) | | | | - | · | • | • | |
| | | | | | | | | | |

| CO1 | Explain classification of kaala, distinguish Adana kala and visarga kala, identification of seasons based on the ritu lakshanas in different geographical areas. | CAP | МК | K | L&PP T | M-CHT | F&S | I | |
|------------|--|-----|----|----|-----------|--------|-----|---|--|
| CO1 | Analyse the Sanchaya- Prakopa- Prashamana of Dosha with their gunas in each ritu. | CAN | МК | К | L&PP T | PUZ | F&S | Ι | |
| CO1 | Describe the Relation of Agni, Bala and Ritu with its application. | CAP | МК | К | L&PP T | CL-PR | F&S | Ι | |
| CO1 | Explain ritu shodhana for the prevention of diseases. | CC | MK | KH | L | T- EW | F&S | Ι | |
| CO1 | Analyse Pathya - Apathya in regards to Ahara -Vihara in all six ritus in present scenario. | CAN | МК | К | FC | CL-PR | F&S | Ι | |
| CO1 | Explain the importance of ahara and vihara in ritu sandhi and yamadanshtra kala. | СК | МК | КН | SDL | T- EW | F&S | Ι | |
| CO1 | Describe rituharitaki as a rasayana with research updates. | CE | DK | K | SDL | CR-RED | F | Ι | |
| CO1 | Explain the effects of Rituviparyaya on health and its relation to janapadaudhwansa/maraka vyadhis with present day examples. | САР | МК | K | L&PP T | CL-PR | F&S | I | |
| Topic 5 Ro | ganutpadaniya (Lecture : 2 hours, Non lecture: 1 hours) | • | • | | | • | | | |
| CO1,CO2 | Explain vegadharana and vega-udirana in relation to health and morbidity. | СК | МК | K | L&PP T | T- EW | F&S | Ι | |
| CO1,CO2 | Compare the symptoms and management principles of adharaniya vega janya vyadhis from bruhattrayee. | CAN | МК | К | L&PP T | T- EW | F&S | Ι | |
| CO1,CO2 | Explain with examples the concept of vega-udirana (viz. Use of snuffing powder, forcible evacuation of bowels & bladder etc.). | СК | МК | К | L&PP T | T- EW | F&S | Ι | |
| CO1,CO2 | Explain the importance of dharaniya vegas in promotion of | СК | МК | K | L&PP | T- EW | F&S | Ι | |

| | mental health. | | | | Т | | | | |
|-------------|---|-------------|----|----|-----------|--------------|-----|---|-----------|
| Topic 6 Sac | lvritta (Lecture : 2 hours, Non lecture: 1 hours) | | | | | | | | |
| CO1 | Describe digital health | СК | DK | КН | L&G D | TT-Theory | F&S | Ι | |
| CO1,CO2 | Explain Promotion of Digital health | САР | DK | КН | L&G D | TT-Theory | F&S | Ι | |
| CO1,CO2 | Describe Digital health problems | САР | DK | КН | DIS | PP-Practical | F&S | Ι | V- SHL |
| CO1,CO2 | Understand and adopt the Sadavritta measures for the maintenance of personal ,social and spiritual health. | AFT- VAL | DK | D | RP | INT | F | Ι | |
| CO1,CO2 | Explain how the observance of Sadvritta helps for the prevention of Adharma. | CC | МК | КН | DIS | T- EW | F&S | Ι | |
| CO1,CO2 | Describe 'Achara Rasayana" and its role in the prevention and control of diseases. | СК | МК | K | L&PP T | TT-Theory | F&S | Ι | |
| CO1,CO2 | Explain characteristics of a mentally healthy person, warning signals of poor mental health, types of mental illness and causes of mental ill-health. | СК | МК | К | L&PP T | TT-Theory | F&S | Ι | |
| CO1,CO2 | Describe the mental health services and comprehensive mental health programme. | СК | МК | K | L&PP T | TT-Theory | F&S | Ι | |
| CO1,CO2 | Explain the role of trigunas and satvavajaya in mental health promotion in present era. | CAP | DK | КН | CBL | INT | F | Ι | V-KC |
| Topic 7 Ah | ara (Lecture :20 hours, Non lecture: 15 hours) | | • | • | | • | | | |
| CO1 | Explain significance of Ahara for health and well-being according to Ayurveda & Contemporary science Explain | СК | МК | K | L | T- EW | F&S | Ι | |

| | significance of Ahara for health and well-being according to Ayurveda & Contemporary science | | | | | | | | |
|-----|---|-----|----|----|-----------|-------|-----|---|------|
| CO1 | Classify aharadravyas as per Ayurveda & Contemporary science | СК | МК | K | L&PP T | T- EW | F&S | Ι | |
| CO1 | Enumerate and explain the features of Ahara vidhividhana, Ahara sevanakala &Dwadashashanapravicharana . | СК | МК | K | L&PP T | T- EW | F&S | Ι | |
| CO1 | Discuss the applied aspect of Pathyahara, Apathyahara, Samashana, Adhyashana, Vishamashana. Discuss the Ahara &vihara leading to Santarpanajanya evam Apatarpanajanyavyadhi and importance of upavasa and effects of practice of intermittant fasting on health | CAN | МК | КН | L&PP T | T- EW | F&S | I | |
| CO1 | Explain the benefits of Shadrasabhojana | CAP | МК | KH | L&PP T | T- EW | F&S | Ι | |
| CO1 | Enumerate and explain the importance of Ashtaharavidhiviseshayatanani in present era | СК | МК | KH | L&PP T | T- EW | F&S | Ι | |
| CO1 | Explain the importance of Nityasevaniyadravyas in the maintenance of health | CAP | МК | KH | L&PP T | T- EW | F&S | Ι | H-DG |
| CO1 | Explain the properties (Guna& karmas) of Ahara dravyas in the following vargas with their nutritive value:Dhanyavarga – Shuka Dhanya (Cereals and Millets), Shami Dhanya (Pulses), Shaka and Haritavarga (Leafy and Non leafy vegatables), Kanda varga (roots and tubers), Phalavarga (Fruits), Taila varga (Fats and Oils), Ikshuvarga (Sugarcane Products)&Madyavarga(Alcoholic Beverages), Dugdhavarga (Milk and Milk products), Ahara UpayogiVarga (Spices & Condiments), Kritannavarga(Prepared Food), Mamsavarga (Meat types) and JalaVarga | CC | МК | КН | L&PP T | T- EW | F&S | Ι | H-DG |

| CO1 | Define Pro-biotics and Pre-biotics and explain their utility | СК | DK | KH | IBL | INT | F | Ι | |
|-----|--|-----|----|----|--------------|-----------|-----|---|--|
| CO1 | Explain the Proximate principles of Food, Recommended Daily Allowance according to various conditions, Sources, and deficiency diseases of Protein, Carbohydrate, Fats, Vitamins, and Minerals. | CC | МК | K | L_VC | СОМ | F&S | Ι | |
| CO1 | Define Balanced diet and explain diet for an individual depending on age, body weight and physiological status and explain the Social Aspects of Nutrition | СК | MK | КН | L&G D | T- EW | F&S | Ι | |
| CO1 | Explain Food hygiene, Sanitation of eating places, Preservation of food, Food handlers, Foodborne diseases, Food fortification, Food adulteration, and Food toxicants | CC | NK | КН | L&PP T,ML | P-REC,CHK | F | Ι | |
| CO1 | Explain Milk Hygiene, Milk composition, Source of infection for Milk, Milk borne diseases, Clean and Safe milk and Pasteurization of milk | CC | DK | КН | L&PP T,ML | P-REC,CHK | F | Ι | |
| CO1 | Explain Meat Hygiene, Meat inspection, Slaughterhouse and Freshness of fish and egg | CC | DK | КН | L&PP T,ML | P-REC,CHK | F | Ι | |
| CO1 | Explain safety and hygiene measures for Fruits and Vegetables | CC | NK | K | ML | O-QZ | F | Ι | |
| CO1 | Formulate a Pathya-Apathya diet for prevention of lifestyle disorders such as Obesity, Diabetes mellitus,Cardiovascular diseases andAcid peptic diseases | CAP | DK | D | SDL | P-REC,CHK | F | Ι | |
| CO1 | Describe Food safety and standards regulation(Ayurveda Ahara Regulations), 2022 and Food safety and standards Act, 2006. | СК | NK | K | ML | INT | F | Ι | |
| CO1 | Explain different Dietary Supplements and Ergogenic Aids | СК | NK | K | IBL | TT-Theory | F | Ι | |
| CO1 | Explain the impact of different dietary patterns: Mediterranean | CC | NK | КН | L&G | INT | F | Ι | |

| | diet, Keto Diet, DASH diet, the MIND diet, Vegan diet, Ovo- lacto-vegetarian, pesco-vegetarian, plant-based diet, Intermittent diet, the Nordic diet, importance of organic foods, merits and demerits of genetically modified foods | | | | D | | | | |
|-----------|---|-----|----|----|-----------|-----------|-----|----|------|
| CO1 | Describe the Slow and Fast foods . Explain the impact of cooking processes like boiling, steaming, sautéing, fermenting etc. (samskara) on health and effect of instant foods like Maggi etc, | CC | NK | КН | DIS | TT-Theory | F | I | |
| CO1 | Define Nutraceuticals, Nutrigenomics, Nutrigenetics | СК | DK | К | L&PP T | T- EW | F | Ι | |
| CO1 | Explain the concept of Viruddhaahara with classical and modern- day examples and the application of this in the prevention of diseases | СК | МК | КН | ECE | T- EW | F&S | I | H-AT |
| Topic 8 F | Rasayana for Swastha (Lecture :2 hours, Non lecture: 2 hours) | | | | | | | • | |
| CO1 | Explain the importance of lifestyle counselling with its methods | CC | NK | K | L&G D | TT-Theory | F&S | Ι | |
| CO1 | Define Rasayana and mention the benefits of Rasayana | СК | MK | К | L&PP T | T- EW | F&S | Ι | |
| CO1 | Classify the types of Rasayana with examples | СК | МК | К | L&PP T | T- EW | F&S | Ι | |
| CO1 | Explain Urjaskara Rasayanas as per age and occupations /Activities | САР | МК | К | L&G D | T-CS | F&S | Ι | |
| CO1 | Explain the antioxidant&immunomodulatory effects of Rasayana with reference to research articles | CC | NK | К | L&G D | CR-RED | F | Ι | |
| Topic 9 Y | loga (Lecture :22 hours, Non lecture: 6 hours) | | • | • | • | | | • | |
| CO1 | Describe adverse effects of improper Yoga practices | СК | DK | KH | L&G | TT-Theory | F&S | II | |

| | | | | | D | | | | |
|-----|---|-----|----|----|-----------|-----------|-----|----|--|
| CO3 | Describe Global importance of International Day of Yoga (IDY) | СК | NK | K | L&PP T | INT | F | II | |
| CO3 | Explain the etymology / derivation of the word 'Yoga'. | СК | МК | K | L&PP T | T- EW | F&S | II | |
| CO3 | Define Yoga according to Patanjali Yogasutras, Bhagavad Gita and Charaka Samhita. | СК | МК | K | L&PP T | TT-Theory | F&S | II | |
| CO3 | Distinguish between Rajayoga, Hathayoga and Karmayoga. | CAN | МК | КН | L&PP T | M-CHT | S | II | |
| CO3 | Explain Yogabhyasa Pratibhandhakas and Yoga Siddhikarabhavas. | СК | МК | K | L&PP T | T- EW | F&S | Π | |
| CO3 | Describe Mitahara and Pathya-apathyas during Yogabhyasa. | CC | МК | KH | L&PP T | T- EW | F&S | II | |
| CO3 | Explain Panchakosha theory. | CC | МК | KH | L&PP T | M-POS | F&S | II | |
| CO3 | List out the Ashtangas of Yoga. | СК | МК | K | L&PP T | T- EW | F&S | II | |
| CO3 | Describe Yama and Niyama with meaning according to Yogasutras and Hathayogapradipika. | CC | МК | K | L&PP T | T- EW | F&S | II | |
| CO3 | Define Asana and explain the importance of asana. Distinguish between asana and physical exercise. | СК | МК | K | L&PP T | TT-Theory | F&S | II | |
| CO3 | Describe the procedure, benefits, indications, and contraindications of Standing Yoga Postures such as Ardhakatichakrasana, Padahastasana, Ardhachakrasana, and Trikonasana. | CC | МК | KH | L_VC | PRN | F&S | Π | |

| CO3 | Describe the procedure, benefits, indications and contraindications of Sitting Yoga postures such as Swasthikasana, Gomukhasana, Padmasana, Vajrasana, Bhadrasana, Shashankasana, Ushtrasana, Pashchimottanasana, Suptavajrasana, Ardhamatsyendrasana, and Siddhasana. | CC | МК | КН | L_VC | PRN | F&S | п | |
|-----|--|----|----|----|-----------|-----------|-----|----|--|
| CO3 | Decsribe the procedure, benefits, indications and contra indications of Supine Yoga postures such as Pavanamuktasana, Sarvangasana, Matsyasana, Halasana, Chakrasana, Shavasana and Setubandhasana. | CC | МК | KH | L_VC | PRN | S | II | |
| CO3 | Describe the procedure, benefits, indications, and contraindications of Prone Yoga postures such as Bhujangasana, Shalabhasana, Dhanurasana, and Makarasana. | CC | МК | КН | L_VC | PRN | F&S | II | |
| CO3 | Describe the procedure, benefits and contraindications of Suryanamaskara. | CC | MK | KH | L_VC | PRN | S | П | |
| CO3 | Define pranayama and explain its types, benefits, time of practice, and avara-pravara-madhyamalakshanas. | CC | MK | КН | L&PP T | T- EW | F&S | II | |
| CO3 | Describe the procedure of Nadishudhi Pranayama, its benefits, and Nadishudhilakshana. | CC | MK | KH | L_VC | PRN | S | П | |
| CO3 | Enumerate the Kumbhakabhedas. | СК | MK | K | L&PP T | TT-Theory | S | II | |
| CO3 | Describe the procedure and benefits of Suryabhedana, Ujjayi, Sheetali, Sitkari, Bhastrika, Bhramari,Murcha, and Plavini. | CC | МК | KH | L_VC | PRN | F&S | II | |
| CO3 | Enlist Shatkarmas of Yoga, indications and their importance. | СК | МК | K | L&PP T | TT-Theory | S | II | |
| CO3 | Describe the procedure, benefits, indications, contraindications, and precautions of Dhauti, Basti, Neti, Trataka, Nauli, and | CC | MK | КН | L_VC | T- EW | S | П | |

| | Kapalabhati. | | | | | | | | |
|----------|--|-----|----|----|--------------------|-----------|------------|----|--|
| CO3 | Explain the term bandha & Describe the procedure and benefits of Mulabandha, Jalandharabandha, and Uddiyanabandha. | CC | МК | КН | L_VC | T- EW | S | II | |
| CO3 | Describe Mudras and explain the benefits of Shanmukhi mudra and Jnana mudra . | CC | DK | КН | L_VC | T- EW | F | II | |
| CO3 | Describe Shatchakras and explain their importance in Yoga practice. | CAP | DK | КН | L&PP T | T-OBT | F | II | |
| CO3 | Describe Ida-pingala-sushumna nadis and their importance in yoga practice. | САР | NK | К | L&PP T | T- EW | F | II | |
| CO3 | Define Pratyahara and explain its importance in Yoga practice. | САР | МК | КН | L&PP T | TT-Theory | S | II | |
| CO3 | Define Dharana and explain its importance in Yoga practice. | САР | МК | КН | L&PP T | TT-Theory | S | II | |
| CO3 | Define Dhyana and explain its importance in Yoga practice. | CAP | МК | КН | L&PP T | TT-Theory | S | II | |
| CO3 | Describe Cyclic Meditation and Mindfulness meditation and their benefits. | CAP | DK | КН | L&PP T,L_ VC | CL-PR | F | п | |
| CO3 | Define Samadhi and explain its types and importance. | СК | МК | К | L&PP T | TT-Theory | S | II | |
| CO3 | Define Moksha according to Charaka and explain Muktatmalakshana and Moksha upayas. | СК | DK | K | L&G D | INT | F | Π | |
| Topic 10 | Naturopathy (Lecture :5 hours, Non lecture: 4 hours) | | | | <u>,</u> | | - <u>I</u> | | |
| CO3 | Explain the basic principles of Naturopathy. | CK | DK | K | L&PP | INT | F&S | II | |

| | | | | | Т | | | | |
|-----|---|-----|----|----|-----------|-----------|-----|----|--|
| CO3 | Describe the concept of Panchabhutopasana. | СК | DK | КН | L&PP T | INT | F&S | II | |
| CO3 | Explain the procedure and therapeutic effects of Mud therapy. | CAP | МК | KH | L_VC | TT-Theory | F&S | Π | |
| CO3 | Explain the procedure and therapeutic benefits of Sun bath. | CAP | МК | KH | L_VC | TT-Theory | F&S | Π | |
| CO3 | Explain Fasting therapy and its types and benefits. | СК | МК | КН | L&PP T | TT-Theory | F&S | II | |
| CO3 | Explain hydrotherapy, types of water used based on the temperature and therapeutic effects of Hydrotherapy. | САР | МК | КН | L_VC | TT-Theory | F&S | II | |
| CO3 | Describe types, methods and benefits of massage. | CAP | МК | КН | L_VC | TT-Theory | F&S | Π | |

| A3 | B3 | C3 | D3 | E3 | F3 | G3 | H3 | I3 | J3 |
|-------------------|---|----------------|--|--|-------------------|-----------|---------------------------------|------|----------------|
| Course outcome | Learning Objective (At the end of the session, the students should be able to) | Doma in/sub | Must to know / desirable to know / Nice to know | Level Does/ Show s how/ Know s how/ Know | T-L meth od | | Form ative/ summ ative | Term | Integ ation |
| Copic 1 Jana | padodhwamsa / Maraka Vyadhi (Lecture :37 hours, Non le | cture: 10 | hours) | | | I | | | I |
| 201 | Understanding the Epidemic Diseases (Amendment) Ordinance | CK | МК | KH | L&G | TT-Theory | F&S | II | |

| | Act,2020 ., | | | | D | | | | |
|-----|--|----|----|----|-----------------------------|-------|-----|----|--|
| CO1 | Explain the causes of Janapadodhwamsa/ maraka vyadhi State the manifestation and control measures of Jnapadodhwamsa Explain the importance of Panchakarma and Rasayana in preventing Janapadodhwamsa | СК | МК | КН | L&PP T | T- EW | F&S | I | |
| CO1 | Define Epidemiology, enumerate and describe the principles and uses of epidemiology. | СК | МК | КН | L&G D | T- EW | S | Ι | |
| CO3 | Describe the basic terms of epidemiology.Explain and discuss the dynamics of disease transmission.Explain the theory of disease causation, epidemiological triad and natural history of disease. | СК | МК | КН | L&PP T | T- EW | S | П | |
| CO2 | Explain the concept of prevention, modes of intervention, risk factors, incidence and prevalence. | CK | МК | КН | L&PP T | T-EMI | S | II | |
| CO2 | Explain Susceptible host and host defense.Describe Immunizing Agents.Explain the concept of vyadhikshamatwa.Enlist methods to improve Vyadhikshamatwa.Classify Bala, enlist factors of Bala vriddhikara bhava. | СК | МК | КН | L&PP T | T- EW | F&S | п | |
| CO2 | Explain the investigation of an epidemic. Explain prevention and control of an epidemic. | СК | МК | КН | L&PP T | T- EW | F&S | Π | |
| CO1 | Explain Sankramaka roga as per Ayurveda. | СК | МК | К | L&PP T | T- EW | S | II | |
| CO2 | Explain Epidemiological determinants, brief pathology ,transmission, incubation period , clinical features, diagnosis and preventive measures of 1.Droplet Infections such as Chicken Pox, Measles, Rubella, Diphtheria, Pertussis, Mumps, Tuberculosis, SARS, Influenza, Pneumonia, Covid-19 and Leprosy | СК | МК | КН | L&PP T,ED U,D_ BED | T- EW | F&S | Π | |

| CO2 | 2.Water borne Infections / intestinal infections - Cholera, Polio, Viral Hepatitis, Typhoid | СК | МК | К | L&PP T,D_ BED | T- EW | S | II | V-KC |
|-----------|--|-----|----|----|---------------------|-----------|-----|----|------|
| CO2 | 3.Intestinal infestations – Ascariasis, Hook worm ,Tape worm4. Emerging and re-emerging diseases.Explain Role of Ayurveda in Epidemics like COVID-19, Zika Virus , H1N1,H3N2,etc | СК | МК | КН | L&G D,D_ BED | T- EW | S | II | |
| CO2 | 5.Sxually transmitted diseases (STDs) with prevention and control - HIV/ AIDS, Syphilis and Gonorrhea. | СК | МК | КН | L&G D,D_ BED | T- EW | S | II | |
| CO2 | Explain the role of Ayurveda in the prevention and control with recent research updates of Lifestyle diseases such as DM,Obesity, Coronary artery disease (CAD) and Cancer | СК | МК | КН | L&PP T,D_ BED | T- EW | S | II | |
| Topic 2 B | Environmental health (Lecture :10 hours, Non lecture: 5 hours) | | | ł | | • | - 1 | | _ |
| CO1 | Understanding the Environment protection Act,1986 | СК | МК | KH | L&G D | TT-Theory | F&S | II | |
| CO1 | Describe the properties of Vayu and state the composition of air. | СК | DK | KH | L | INT | F | II | |
| CO1 | Specify the changes in air of the occupied room. | CK | DK | KH | L | INT | F | II | |
| CO1 | Explain comfort zone and indices of thermal comfort. | CK | DK | KH | L | INT | F | II | |
| CO2 | Comprehend the causes, prevention and control of air pollution. Discuss the effects of air pollution on health and social aspects | CC | DK | KH | L | DEB | F | II | |
| CO2 | Elaborate the effects of Global warming with recent updates | CAP | DK | KH | L&G D | CR-RED | F | II | |
| CO2 | Define ventilation and illustrate its types. | САР | DK | КН | L&G D | DEB | F | II | |

| CO2 | Explain the effects of high altitude and mountain air on health. | CAP | DK | KH | L&G D | DEB | F | Π |
|---------|---|-----|----|----|---------------|-----------------------|-----|----|
| CO1 | Explain safe and wholesome water and state water requirements. | СК | МК | КН | L&PP T | TT-Theory,V V-Viva | F&S | II |
| CO1 | Explain the properties of water from different sources. | СК | МК | КН | L&PP T | TT-Theory,V V-Viva | F&S | II |
| CO1,CO6 | Explain water pollution and health hazards. | CAP | МК | КН | L&PP T,DIS | CL-PR | F&S | II |
| CO1,CO6 | Describe the contemporary methods of water purification along with Ayurvedic methods. | CAP | МК | КН | L&PP T,DIS | CL-PR | F&S | Π |
| CO1,CO6 | Elucidate the effects of Hard Water on health and methods of removal of hardness. | CAP | МК | KH | L&PP T,DIS | CL-PR | F&S | П |
| CO7 | Describe the quality of water stored in different vessels as per classics. | CAP | DK | SH | L | DEB | F | П |
| CO7 | Explain the rain water harvesting methods and its importance | CAN | NK | SH | L | DEB | F | II |
| CO7 | Enlist the types of soil. | СК | DK | КН | L&PP T | INT | F | II |
| C07 | Interpret the relation between soil and health. | СК | DK | КН | L&PP T | INT | F | II |
| CO7 | Explain Land pollution and its prevention and control | СК | DK | КН | L&PP T | INT | F | II |
| CO7 | Explain land purification as per the classics. | CAN | NK | КН | L&G D | T-OBT | F | Π |
| CO7 | Explain the Social goals of Housing and Housing | CE | DK | KH | L&G | T- EW | F | II |

| | standards. Understanding of The building and other construction workers Act,1996 | | | | D | | | | |
|-----|--|-----|----|----|-----------|-----------|---|----|--|
| CO7 | Analyze the effects of housing on health. | CE | DK | КН | L&G D | T- EW | F | II | |
| CO7 | Explain overcrowding and its impact on health | CE | DK | КН | L&G D | TT-Theory | F | II | |
| CO7 | Explain good lighting, natural lighting and artificial lighting | СК | DK | КН | L&PP T | M-POS | F | II | |
| CO7 | Explain the biological effects of lighting. | СК | DK | КН | L&PP T | M-POS | F | II | |
| CO7 | Define noise. Illustrate its sources, effects on health and control measures. | СК | DK | КН | L&PP T | PRN | F | II | |
| CO7 | Enlist the sources of Radiation and explain its effects on health and describe control measures. | СК | DK | КН | L | PRN | F | Π | |
| CO7 | Enlist Different types of solid waste and Explain the Storage and collection of refuse. | СК | МК | КН | L,D- M | TT-Theory | S | II | |
| CO7 | Explain the Methods of disposal of solid waste (Rural & urban) | СК | МК | KH | D-M | M-MOD | S | II | |
| CO7 | Describe Bio-medical waste management and Bio-Medical waste management rules, 2016 | СК | МК | КН | D-M | TT-Theory | S | II | |
| CO7 | Enlist excreta Disposal methods and explain Sanitary Latrines | CAN | DK | KH | D-M | DEB | F | II | |
| CO7 | Explain the Modern Sewage disposal method | CAN | DK | КН | D-M | DEB | F | II | |
| C07 | Describe the disposal methods of Excreta during camps, fairs, and festivals | CAN | DK | КН | D-M | DEB | F | II | |

| Topic 3 Dis | aster management (Lecture :1 hours, Non lecture: 2 hours) | | | | | | | | |
|-------------|--|-----|----|----|-----------|-----------|-----|----|---|
| CO5 | Define disaster and explain disaster management | СК | DK | KH | L&G D | PRN | F | П | |
| CO5 | Explain effects of natural and man-made disasters | СК | DK | KH | L&G D | PRN | F | II | |
| CO2 | Explain epidemiologic surveillance and identify disease control measures | CAP | DK | KH | L&G D | PRN | F | II | |
| Topic 4 Oc | cupational Health (Lecture : 3 hours, Non lecture: 3 hours) | | • | • | | | | | - |
| CO1 | Understand the Merchant Shipping / Medical Examination Rules, 2000 | СК | DK | KH | L&G D | TT-Theory | F | Π | |
| CO7,CO8 | Define Occupational Health and Ergonomics. | СК | МК | K | L&G D | TT-Theory | F&S | П | |
| CO7,CO8 | Explain occupational Hazards. | СК | МК | K | L&G D | T- EW | F&S | П | |
| CO7,CO8 | Enlist occupational diseases and explain their prevention & control. | СК | МК | K | L&G D | T- EW | F&S | II | |
| CO1 | Explain ESI Act, 1948 and The factories Act, 1948 | СК | МК | K | L&PP T | T- EW | S | П | |
| CO1 | Describe the role of Ayurveda in various Occupational health problems. | СК | МК | KH | L&G D | TT-Theory | S | П | |
| Topic 5 Sch | nool health services (Lecture :2 hours, Non lecture: 3 hours) | • | • | | - | | | - | |
| CO2 | State the Health problems of school children. | CC | МК | KH | L&PP T | T- EW | F&S | Π | |
| | | | | | | | | 1 | |

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Tonia 3 Disastar managament (Lecture 1 hours Non lecture 2 hours)

| CO2 | Mention the aspects of school health services. | CC | MK | КН | L&PP T | T- EW | F&S | п | |
|---------------------------------|---|-------------|----|----|-----------|-------------|-----|----|--|
| CO2 | Mention the duties of school medical officers. | CC | МК | КН | FV | T- EW | F&S | Π | |
| CO2 | Explain how to Maintain a healthy environment in the school. | CC | МК | КН | FV | T- EW | F&S | Π | |
| Topic 6 Disin | fection (Lecture :2 hours, Non lecture: 3 hours) | | | - | | | | | |
| CO1,CO2,CO 6,CO7 | Define the term disinfection | CK | MK | K | L | TT-Theory | F&S | II | |
| CO1,CO2,CO 6,CO7 | Enlist and explain the types of disinfection. | СК | MK | K | L&PP T | P-VIVA,P-PS | F&S | II | |
| CO1,CO2,CO 6,CO7 | Describe the Natural agents, Physical agents, and chemical agents of disinfection | СК | MK | K | L&PP T | T- EW | F&S | II | |
| CO1,CO2,CO 6,CO7 | Demonstrate the recommended disinfection procedures of feces & urine, sputum, and room. | PSY- MEC | DK | КН | L_VC | P-VIVA,QZ | F | II | |
| CO1,CO2,CO 6,CO7 | Explain Ayurvedic disinfection methods. | СК | DK | К | L&PP T | QZ | F | II | |
| Topic 7 Prim | ary health care (Lecture :2 hours, Non lecture: 1 hours) | | | | | | | | |
| CO1,CO2,CO 3,CO4,CO5,C O8 | Define Primary Health Care. | СК | МК | К | L | TT-Theory | S | Π | |
| CO1,CO2,CO 3,CO4,CO5,C O8 | Describe the principles and elements of primary health care and the levels of health care. | СК | МК | К | L&PP T | T- EW | F&S | Π | |
| CO1,CO2,CO 3,CO4,CO5,C | Describe the Structure at village, sub-centre, PHC, CHC, Rural hospital levels | СК | МК | К | L&PP T | T- EW | F&S | II | |

| 08 | | | | | | | | | |
|---------------------------------|---|-------|----|---|-----------|-----------|-----|----|---|
| CO1,CO2,CO 3,CO4,CO5,C O8 | Describe primary health care in Health insurance, Private agencies, Voluntary health agencies, NGOs, and the AYUSH sector | СК | DK | К | L&PP T | T-OBT | F | П | |
| CO1,CO2,CO 3,CO4,CO5,C O8 | Describe the role of Ayurveda in Primary Health Care. | СК | МК | К | L&PP T | TT-Theory | F&S | П | |
| Topic 8 Moth | er and Child health care (Lecture :1 hours, Non lecture: 1 h | ours) | | • | • | | | | • |
| CO2,CO3,CO 8 | Describe the objectives of Maternal and Child Care services. | СК | МК | К | L | T- EW | F&S | II | |
| CO2,CO3,CO 8 | Explain the MCH problems & enlist the indicators of MCH care | CC | МК | К | L&PP T | T- EW | F&S | II | |
| Topic 9 Fami | ly welfare programme (Lecture :2 hours, Non lecture: 2 hou | irs) | | | | • | - | | |
| CO4,CO5,CO 6 | Define demography and enlist the sources of demographic statistics in India. | СК | МК | K | L&PP T | TT-Theory | F&S | II | |
| CO4,CO5,CO 6 | Describe the demographic cycle & define life expectancy. | СК | МК | K | L&PP T | CL-PR | F&S | II | |
| CO2,CO4,CO 5 | Define family planning, eligible couple and target couple.Enlist & explain the objectives of family planning. | СК | МК | K | L&PP T | TT-Theory | F&S | II | |
| CO2,CO4,CO 5 | Explain the problems of population explosion and describe national population policy. | СК | МК | K | DIS | TT-Theory | F&S | II | |
| CO2,CO4,CO 5 | Classify and describe the Contraceptive methods (Fertility Regulating Methods). | СК | МК | K | L_VC | M-CHT | F&S | II | |
| Topic 10 Prev | ventive Geriatrics (Lecture :1 hours, Non lecture: 1 hours) | | • | | | | · | | |

| | | | | | | - | | | |
|-------------|---|-------------|-----------------|----------|-------------|------------------|-----|-----|--|
| CO8 | Enlist the health problems of the aged and explain their prevention and control measures | CK | MK | K | DIS | INT | F&S | Π | |
| CO8 | Explain the relation between lifestyle and healthy aging. | CC | МК | K | DIS | INT | F&S | II | |
| CO8 | Describe the role of rasayana in preventive geriatrics. | CC | МК | К | L&PP T,W | INT | F&S | II | |
| Topic 11 W | Vorld Health Organization and International health agencies | (Lectur | e :3 hours, Non | lecture: | 1 hours |) | | | |
| CO4 | Define and describe the structure, regions, and works of the World Health Organization | СК | МК | КН | L&G D | T- EW,P- VIVA | F&S | III | |
| CO4 | Describe the functions of various international health agencies - United Nations health agencies, bilateral health agencies, and Non- Governmental agencies | СК | МК | КН | L&G D | T- EW,P- VIVA | F&S | III | |
| CO4 | Describe the contribution of the world health organization to the global acceptance of Ayurveda | СК | МК | КН | L&G D | T- EW,P- VIVA | F&S | III | |
| Topic 12 Vi | ital Statistics (Lecture :1 hours, Non lecture: 1 hours) | | | • | | | • | | |
| CO1 | Understanding of Registration of Birth and Death Act, 1969 | СК | МК | КН | L&G D | TT-Theory | F&S | Π | |
| CO4,CO8 | Define Vital Statistics. | AFT- RES | МК | SH | DIS | T- EW,P- VIVA | F&S | III | |
| | Enumerate the sources of Vital statistics | | | | | | | | |
| CO4,CO8 | Describe Fertility, Morbidity and Mortality rates | AFT- RES | МК | SH | L&G D | T- EW,P- VIVA | F&S | III | |

| Topic 13 H | ealth Administration (Lecture :2 hours, Non lecture: 1 hours) | | | | | | | | |
|-------------|---|--------|----|----|----------------------|------------------|-----|-----|---|
| CO4,CO8 | Describe the health administration including AYUSH at the Central, State, District, and Village levels | СК | DK | KH | L&G D | T- EW,P- VIVA | S | III | |
| Topic 14 Na | ational Health Programmes (Lecture :7 hours, Non lecture: 3 l | hours) | | | | | | - | - |
| CO4,CO8 | State the vision/objective and outline the goals, strategies and plan of action of National Health Programs - Leprosy(NLEP), AIDS (NACP), Blindness (NPCB), Polio , National TB Elimination Program , Vector born disease control program, RCH program, ICDS program, Universal Immunization Program, National mental health program , National Program for Prevention and Control of Cancer, Diabetes, Cardiovascular Diseases & Stroke (NPCDCS) , Swachha Bharat mission, Ayushman Bharat Yojana, Ayushman Bharat Digital Mission, National health mission (NRHM&NUHM), National AYUSH Mission (NAM). | СК | МК | КН | L&PP T,DIS ,FV | T- EW,P- VIVA | F&S | III | |
| | National nutrition programs- National Iodine Deficiency Disorders Control program, National Iron Plus Initiative for Anemia Control, National Vitamin A prophylaxis program, Mid- Day Meal program & Balwadi nutrition program. | | | | | | | | |
| Topic 15 Na | ational Health Policy (Lecture :1 hours, Non lecture: 1 hours) | | - | | - | | | | |
| CO4 | Describe the National Health Policy (NHP) and the scope of Ayurveda in NHP. | СК | МК | KH | L,L& PPT | T- EW,P- VIVA | F&S | III | |

List of Practicals (Term and Hours)

| | PRACTICALS (Marks-100) | | | | | | | | | | |
|------|---|------|-------|--|--|--|--|--|--|--|--|
| S.No | List of Topics | Term | Hours | | | | | | | | |
| 1 | Dinacharya | 1 | 25 | | | | | | | | |
| 2 | Disinfectants | 1 | 2 | | | | | | | | |
| 3 | Ahara | 1 | 30 | | | | | | | | |
| 4 | Health Education (IEC) | 2 | 10 | | | | | | | | |
| 5 | Yoga performance | 2 | 35 | | | | | | | | |
| 6 | Community survey | 3 | 20 | | | | | | | | |
| 7 | Local Health Educational Visits | 3 | 36 | | | | | | | | |
| 8 | Visit to Observe National Health Programs and Ayurveda Centre | 3 | 12 | | | | | | | | |
| 9 | Monitoring of health and hygiene | 1 | 5 | | | | | | | | |

Table 4: Learning objectives (Practical)

| A4 | B4 | C4 | D4 | E4 | F4 | G4 | H4 | I4 | K4 |
|----------------|--|----------------|---|---------------------------|--------------------|--------------------------|------------------------|----------|-----------------|
| Course outcome | Learning Objective (At the end of the session, the students should be able to) | Doma in/sub | Must to know / desirable to know / Nice | Level Does/ Show | T-L meth od | Assessment | Form ative/ summ | Term | Integr ation |
| | | | to know | s how/ | | (Refer abbreviations) | ative | | |
| | | | | Know s how/ Know | | | | | |
| Tania 1 Dina | | | | KIIOW | | | | | |
| Topic 1 Dina | icharya | <u> </u> | | 1 | 1 | İ | | <u> </u> | |
| CO1 | Collect and Compare different Dantadhawana Churnas/ Tooth pastes available in the market and choose/ advise the appropriate one based on | PSY- ADT | DK | D | PrBL | PRN | F | 1 | |
| | the need. | | | | | | | | |
| C01 | Collect and Compare different JiwhaNirlekhanaYantra(Tongue cleaners) available in the local area/ market and choose/advise the appropriate one for swastha | PSY- ADT | DK | D | PrBL | PRN | F | I | |
| CO1 | Collect different dravya/kashaya/mouthwashes available in the market for kavala and gandusha; demonstrate the procedure of kavala and gandusha with appropriate liquids /dravyas for swastha | PSY- ADT | МК | D | PrBL, D,PR A | PRN | F&S | I | |
| CO1 | Collect different types of Anjana (Collyriums) available in the market, Demonstrate Anjana procedure as per local traditions and | PSY- ADT | МК | D | PrBL, PT,D | PRN | F&S | Ι | |

| | advise different | | | | | | | | |
|-----------|---|-------------|----|----|---------------|--------------|-----|----|--|
| | types of Anjana for swastha. | | | | | | | | |
| CO1 | Demonstrate Pratimarsha Nasya with Anutaila/ Sesame oil and prescribe the appropriate taila for Pratimarsha Nasya for swastha. | PSY- ADT | МК | D | PrBL, PT,D | DOPS | F&S | Ι | |
| CO1 | Demonstrate Prayogika Dhoomapana and advise prayogika dhoomapana dravya for swastha. | PSY- ADT | MK | D | PrBL, PT,D | DOPS | F&S | Ι | |
| CO1 | Demonstrate the procedure of Abhyanga techniques for full body abhyanga, padabhyanga and shiroabhyanga and prescribe suitable taila for Abhyana for Swatha. | PSY- ADT | МК | D | PrBL, PT,D | DOPS | F&S | I | |
| CO1 | Demonstrate the procedure of Udwartana techniques and prescribe suitable dravya for Udwartana for Swatha. | PSY- ADT | МК | D | PrBL, PT,D | DOPS | F&S | Ι | |
| CO2 | Prescribe appropriate dinacharya module regarding ahara and vihara as per age and occupation /activity. | CE | МК | SH | PrBL | P-CASE | F&S | Ι | |
| CO2 | Advise /counsel people regarding healthy lifestyle based on the Ayurvedic principles (one student should counsel at least five person and should be documented). | CE | МК | SH | PrBL | P-CASE | F&S | I | |
| Topic 2 D | isinfectants | | · | · | | • | | | |
| CO7 | Identify and demonstrate the suitability, dose, dilution, and contact period of the following disinfectants:Bleaching powder, Dettol, Lysol, Savlon. | PSY- ADT | МК | SH | CBL | PP-Practical | S | II | |
| CO7 | Observe the procedure of fumigation of the operation theatre. | AFT- REC | NK | D | D | P-VIVA | F | Π | |
| CO7 | Write the mode of working and uses of an autoclave. | СК | DK | КН | SDL | T- EW | F | II | |

| Topic 3 A | Ahara | | | | | | | | |
|-----------|--|-------------|----|----|------|-----------------|-----|---|------|
| CO8 | Collect and compile different regional staple food articles. | PSY- SET | МК | D | SDL | СОМ | F | Ι | H-DG |
| CO8 | Mention the nutritive value of the following preparations per 100gm and calculate the food portions/serving size of the following recipes: a. Yusha b.Yavagu c.Odana d.Krushara e.Peya f.Panaka g.Takra h.Manda i.Vilepi | CE | МК | D | РТ | P-EN | F&S | I | |
| CO8 | Plan a dietary Menu according to different Prakriti (preparation of diet chart considering all ahara vargas for eka doshaja , dvidoshaja prakriti) | PSY- GUD | МК | SH | TBL | P-MOD,P- POS | F | Ι | |
| CO8 | Plan the dietary menu for different occupations / Activities, Age groups, and physiological conditions. (diet chart for 1-5 years child, 6-18 years, 18& above till 60 years, above 60 years, sedentary, sedentary intellectuals, night shifts, drivers, standing professionals. physiological conditions like Garbhini,Sutika, Kshirapa, Ksheerada, Ksheerannada, Annada etc,) | PSY- GUD | МК | D | CBL | P-CASE | F&S | I | |
| CO8 | Plan Ahara-Vihara based on the different Ritus(preparation of diet and lifestyle charts for each ritu) | PSY- GUD | МК | D | PrBL | M-CHT | F | Ι | |
| CO8 | Plan a dietary menu for any one individual according to prakriti, agni, Sara, satva, age, sex, occupation/ activity, and season based on the regional food habits with serving sizes with different food exchange/options. | PSY- GUD | МК | D | IBL | P-CASE | F | I | |
| CO8 | Document the maintenance of various equipment and appliances used in the kitchen/ diet section of the hospital such as cooking gas, pressure cooker, mixer-grinder, microwave oven, refrigerator | AFT- RES | NK | D | PL | PP-Practical | F | I | |

| CO8 | Assess various Anthropometric variables like Weight, height, and BMI (including differentiation between Sara)and Mid-arm Circumference in order to assess the state of nutrition. | AFT- RES | MK | D | PSM | PP-Practical | F | I | |
|-----------|---|-------------|----|----|--------------------|------------------------------|-----|----|---|
| Topic 4 H | Health Education (IEC) | | | | | | | | |
| CO5 | Demonstrate communication methods for health education. | PSY- SET | МК | SH | DIS, W | P-RP,M- POS,OSPE ,DOPS | F&S | II | |
| CO5 | Demonstrate/present different health education materials (dinacharya practices, sadvritta practices,family planning methods, breast feeding techniques, environmental hygeine, preventive and control measures of comunicable and non - communicable diseases etc.) to the target population in the community. | AFT- RES | МК | SH | DIS,T PW,R P | DOPS,Log book | F&S | Π | |
| Topic 5 Y | loga performance | | • | • | | | | | • |
| CO3 | Perform four Standing Postures namely - Ardhakatichakrasana, Padahastasana, Ardhachakrasana, and Trikonasana step by step with Sthiti, main procedure, and vishrama. | PSY- ADT | МК | SH | KL | DOPS | S | Π | |
| CO3 | Perform eleven Sitting Postures namely - Swasthikasana, Gomukhasana, Padmasana, Vajrasana, Bhadrasana, Shashankasana, Ushtrasana, Pashchimottanasana, Suptavajrasana, Ardhamatsyendrasana, and Siddhasana step by step with Sthiti, main procedure, and vishrama. | PSY- ADT | МК | SH | KL | DOPS | S | П | |
| CO3 | Perform seven Supine Postures namely - Pavanamuktasana, Sarvangasana, Matsyasana, Halasana, Chakrasana, Shavasana, and Setubandhasana step by step with Sthiti, main procedure and visrama | PSY- ADT | MK | SH | KL | DOPS | S | П | |
| CO3 | Perform four Prone Postures namely - Bhujangasana, | PSY- | МК | SH | KL | DOPS | S | II | |

| | Shalabhasana, Dhanurasana, and Makarasana step by step with Sthiti, main procedure and vishrama. | ADT | | | | | | | |
|------------|---|-------------|----|----|------------|-----------|-----|-----|--|
| CO3 | Perform Nadishuddhi Pranayama with inhalation-retention- exhalation in the ratio of 1:4:2 in a comfortable sitting posture. | PSY- ADT | МК | SH | KL | DOPS | S | II | |
| CO3 | Perform Kumbhakabhedas namely - Suryabhedana, Ujjayi, Sitkari, Sheetali, Bhastrika and Bhramari. | PSY- ADT | МК | SH | KL | DOPS | S | II | |
| CO3 | Perform Jalaneti, Kapalabhati and Trataka. | PSY- ADT | МК | SH | KL | DOPS | S | II | |
| CO3 | Demonstrate and instruct Common Yoga Protocol of IDY (International Day of Yoga). | PSY- ADT | DK | SH | EDU | DOPS | F | II | |
| Topic 6 Co | mmunity survey | | | · | • | | • | • | |
| CO6 | Conduct minimum 05 Family surveys using structured questionnaire in specific rural populations and report the survey finding and discuss possible solutions to the family | PSY- SET | МК | D | ECE | DOPS | F&S | III | |
| CO6 | Conduct minimum 05 Family surveys using structured questionnaire in specific urban populations and report the survey finding and discuss possible solutions to the family. | PSY- SET | МК | D | ECE | DOPS | F&S | III | |
| Topic 7 Lo | cal Health Educational Visits | 1 | L | | | | | | |
| CO2 | Report the functioning of milk dairy such as methods of processing and preservation of milk, testing of milk before and after pasteurization and the standards of milk & milk products. | PSY- SET | МК | KH | EDU, FV | P-VIVA,RK | F&S | III | |
| CO2,CO7 | Report and explain the various process involved in large-scale water purification. | PSY- MEC | МК | КН | D- M,FV | P-VIVA,RK | F&S | III | |
| CO2,CO7 | Explain and Report the processes involved in modern sewage treatment. | PSY- MEC | МК | KH | D- M,FV | P-EXAM,RK | F&S | III | |

| CO1,CO2,CO 5,CO6,CO8 | Explain and report the various measures adopted in the industry for the prevention and control of occupational diseases. | CC | МК | КН | TPW, FV | P-VIVA,RK | F&S | III | |
|-------------------------|---|-------------|----|----|---------------------|---------------------|-----|-----|------|
| CO1,CO2,CO 8 | Explain and Report the food safety standards and methods of food processing techniques. | CC | МК | K | PrBL, RLE, FV | P-VIVA,RK | F&S | III | |
| CO3,CO6 | Report and explain various naturopathic treatment methods. | CC | МК | КН | L_VC ,EDU, FV | P-EXAM,RK | F&S | III | |
| Topic 8 Visit | to Observe National Health Programs and Ayurveda Centr | ·e | | | • | | • | | • |
| CO4,CO8 | Report the functioning of National Health Programs at Primary health centers/Community health centers/District hospitals and Govt. Ayurveda Dispensary | PSY- SET | МК | SH | L_VC ,IBL, FV | T- EW,P- VIVA,RK | F&S | III | V-KC |
| CO4 | Report the functioning of a Primary Health Centre/ Community Health Centre/ Rural Hospital/ District Hospital with regards to the implementation of different National Health Programmes viz. infectious disease control, immunization, ANC, Family planning etc. | AFT- RES | DK | D | FV | Log book | F | III | |
| CO4 | Report the structure and functioning of an Ayurvedic Dispensary/ Taluk Hospital/ District Hospital available in the district. | AFT- RES | DK | D | FV | Log book | F | III | |
| Topic 9 Mon | itoring of health and hygiene | | | · | | | | • | |
| CO2,CO6,CO 7,CO8 | Collect the demographic profile of allotted 2 subjects/Individuals (one from the community and one from employees of the college/hospital) and conduct clinical examination (Assess Prakriti, Sattva, Saara, etc.) | AFT- RES | МК | D | IBL | P-CASE,RK | F&S | Ι | |
| CO2,CO6,CO 7,CO8 | Conduct periodic check-ups for allotted individual/employer (2) health status / occupational health status and if any treatment | AFT- RES | МК | D | РТ | P- CASE,OSCE | F | Ι | |

| | is prescribed then coordinate the treatment under the overall guidance of the Mentor | | | | | | | | |
|---------------------|--|-----|----|----|------|----------|---|---|--|
| CO2,CO6,CO 7,CO8 | Counsel the adopted individuals/employer (2) and analyze the health trajectory(individual following the prescribed regimen) of the adopted individual/employer under the overall guidance of the mentor | RES | МК | D | РТ | P-SUR,RK | F | Π | |
| CO2,CO6,CO 7,CO8 | Document the maintenance of water sanitation, waste disposal, food hygiene, etc,. in the hospital canteen/ pathya section/cafeteria | CE | МК | КН | PrBL | RK | F | Ι | |

Table 4a: List of Practical

| S.No | Name of practical | Term | Activity | Practical hrs |
|------|-------------------|------|---|---------------|
| 1 | Dinacharya | | Analyze the composition of different Dantadhawana Churnas/ Tooth pastes and tooth brushes available in the market Analyze different Jivwa Nirlekhana Yantra(Tongue cleaners) available in the local area/ market Demonstrate the procedure of kavala and gandusha with appropriate liquids /dravyas for swastha Demonstrate Anjana procedure as per local traditions and advise different types of Anjana for swastha. Demonstrate Pratimarsha Nasya with Anutaila/ Sesame oil and prescribe the appropriate taila for Pratimarsha Nasya for swastha. Demonstrate Prayogika Dhoomapana (Practicable and Non- practicable Dhoomapana)and advise prayogika dhoomapana dravya for swastha. Demonstrate the procedure of Abhyanga techniques for full body abhyanga, padabhyanga and shiroabhyanga and prescribe suitable Taila for Abhyana for Swatha. Demonstrate the procedure of Udwartana techniques and prescribe suitable dravya for Udwartana for Swatha. Prescribe appropriate dinacharya module regarding ahara and vihara as per age and occupation /activity. Advise /counsel people regarding healthy lifestyle based on the Ayurvedic principles (one student should counsel at least five person and should be documented). | 25 |
| 2 | Disinfectants | 1 | Identify and demonstrate the suitability, dose, dilution, and contact period of the following disinfectants : Bleaching powder, Dettol, Lysol, Savlon . Observe the procedure of fumigation of the operation theatre. Write the mode of working and uses of an autoclave. | 2 |

| 3 | Ahara | 1 | Collect, compile and document region wise different varieties of Ahara Varga (Millets, cereals, pulses, vegetables, varieties of milk/oil/honey/ available in the market). Demonstrate the therapeutic indication and nutritive values of Pathya kalpanas a. Manda b. Peya c. Vilepi d. Yavagu e.Odana f. Krishara g.Yusha h.Takra . Prepare the dietary regime according to different Prakriti. Prepare/Prescribe the dietary regime for different occupations / activities, age groups, and physiological conditions. Prepare/Prescribe the diet and lifestyle regimen(pathya- apathya) with reference to Ahara and Vihara for each ritu. Conduct diet counselling according to prakriti, agni, sara, satva, age, sex, occupation/ activity, and prevailing season based on the regional food habits with serving sizes with different food exchange/options for 5 persons. Assess various anthropometric variables like weight, height, and BMI and mid-arm circumference etc., in order to assess the state of nutrition of five individuals. | 30 |
|---|------------------------|---|---|----|
| 4 | Health Education (IEC) | 2 | Demonstrate communication methods for health education. Demonstrate/ Present different health education materials (dinacharya practices, Sadvritta practices, family planning methods, breastfeeding techniques, etc.) patients and general public . | 10 |
| 5 | Yoga performance | 2 | Perform four Standing Postures namely - Ardhakatichakrasana, Padahastasana, Ardhachakrasana, and Trikonasana step by step with sthiti, main procedure and vishrama. Perform eleven Sitting Postures namely - Swasthikasana,Gomukhasana, Padmasana, Vajrasana, Bhadrasana, Shashankasana, Ushtrasana, Pashchimottanasana, Suptavajrasana, Ardhamatsyendrasana, and Siddhasana step by step with sthiti, main procedure and vishrama. Perform seven Supine Postures namely - Pavanamuktasana, Sarvangasana, | 35 |

| | | | Matsyasana, Halasana, Chakrasana, Shavasana, and Setubandhasana step by step with sthiti, main procedure and visrama Perform four Prone Postures namely - Bhujangasana, Shalabhasana, Dhanurasana, and Makarasana step by step with Sthiti, main procedure and vishrama. Perform Jalaneti and kapalbhati . Perform Anuloma – Viloma Pranayama in a comfortable sitting posture. Perform Nadishuddhi Pranayama with inhalation- retention-exhalation in the ratio of 1:4:2 in a comfortable sitting posture. Perform Kumbhakabhedas namely - Suryabhedana, Ujjayi, Sitkari, Sheetali, Bhastrika and Bhramari. Demonstrate and instruct Common Yoga Protocol of IDY (International Day of Yoga). | |
|---|------------------------------------|---|---|----|
| 6 | Community survey | 3 | Conduct minimum 05 Family surveys using a structured questionnaire in specific rural populations and report the survey findings and discuss possible solutions to the family. Conduct minimum 05 family surveys using a structured questionnaire in specific urban populations and report the survey findings and discuss possible solutions to the family. | 20 |
| 7 | Local Health Educational Visits | 3 | Report the functioning of milk dairies such as methods of processing and preservation of milk, testing of milk before and after pasteurization, and the standards of milk & milk products. Report the various process involved in water purification plant. Report the processes involved in modern sewage treatment plant. Report the various measures adopted for the prevention and control of occupational diseases in any industry. Report the food safety standards and methods of food processing techniques adopted in any food industry. Report the various treatment modalities adopted in Naturopathy and Yoga canters. Note : Swasthavritta, Agada Tantra. | 36 |

| 8 | Visit to Observe National Health Programs and Ayurveda Centre | 3 | Dravyaguna & Rasashastra - Combined out campus visits can be palled wherever feasible. Report the functioning of a Primary health centre/Community health centre/Rural hospital/District hospital with regards to the implementation of different National Health Programmes viz. infectious disease control, immunization, ANC, Family planning etc. Report the structure and functioning of a | 12 |
|---|---|---|--|-----|
| 9 | Monitoring of health and hygiene | 1 | Ayurveda Dispensary/ Taluk Hospital /District Hospital available in the district. Conduct periodic check-ups , collect demographic profile and clinical examination of allotted 2 subjects/Individuals - Assess Prakriti, Satva, Sara, etc.)for their health status / occupational health status and if any treatment is prescribed then coordinate the treatment under the overall guidance of the | 5 |
| | | | teacher/Mentor. Counsel and advice the allotted 2 subjects a healthy regime prescription and analyze their health status after following the healthy regime under the overall guidance of the teacher/mentor. Document the maintenance of water sanitation, waste disposal including biomedical waste in the hospital. | |
| | | | Total Hr | 175 |

Activity

| СО | Topic name | Activity Details | Hours # |
|-----|------------|---|------------|
| CO1 | Dinacharya | Demonstration, Making posters, Real-life experiences , Roleplay , We- based activities | 5 |

| | | Example - Collection and analyze of different tooth paste/tooth brushes, mouth washes and collyriums available in the market including GMP pharmacies | |
|---------|-------------------------|--|----|
| CO1 | Ratricharya | Chart preparation and real-life experiences of Ratri bhojana and Sleep principles | 1 |
| CO1 | Ritucharya | Assessment of changes happening in the human body in particular rituPoster preparation of food recipes in different ritus | 2 |
| CO1 | Sadvritta | Role play | 1 |
| CO1 | Ahara | Listing of Ahitakara (Junk) food habits, Gathering information of Organic farming and Organic food items, Application of Ashtaahara vidhivesesha ayatana in real life - Team base project, Roleplay, Presentation & Collection of Research updates in the field of Ayurvedic food | 15 |
| CO1 | Roganutpadaniya | Survey and documentation on effect of Adharaneeya vega on different occupations | 1 |
| CO1 | Rasayana for swastha | Poster making and Library work | 2 |
| CO1 | Nidra | Survey on sleep and awakening patterns among the staff and students | 1 |
| CO7 | Yoga | Participation in International day of Yoga, Poster presentation of Yogic practices as per diseases, Preparation of Short videos on Yoga and Conducting Quiz | 7 |
| CO2,CO5 | Disaster management | Group discussion | 2 |
| CO1 | Janapadodwamsa | Assignment, Symposiums and Problem-based learning | 10 |
| CO1,CO5 | Environmental health | Seminars, Quiz andm PBL | 5 |
| CO3 | Disinfection | PBL | 3 |
| CO2 | Family welfare programe | Roleplay, Web-based learning and Discussion | 2 |

| C07,C08 | Mother and child health care | PBL | 1 |
|-------------------------|---|---|---|
| CO8 | Preventive geriatrics | Group discussion and Seminar | 1 |
| CO4,CO8 | National health programs | Web-based learning, Assignments and Participating in celebration of health related days | 3 |
| CO3 | School health services | Role play and Presentations | 2 |
| C07,C08 | Occupational health | Poster making, PBL and Group discussion | 3 |
| C02,C03,C04,C05 ,C08 | Primary health care | Group discussions | 2 |
| CO3 | Naturopathy | Web-based learning, Tutorials and Group disussions | 4 |
| CO4 | World health organizations and International health agencies | Web-based learning and Quiz | 1 |
| CO8 | Health Statistics | Presentations and Seminars | 1 |

 $\ensuremath{\texttt{\#}}$ Hours indicated are included in calculations of Table 3 and 4

Table 5- Teaching learning method

| Sr No | Teaching learning methods in the course | No of Activities |
|-------|---|------------------|
| 1 | Lecture | 14 |
| 2 | Lecture with Power point presentation | 61 |
| 3 | Lecture & Group Discussion | 16 |
| 4 | Lecture with Video clips | 15 |

| 5 | Discussions | 6 |
|----|------------------------|---|
| 6 | Inquiry-Based Learning | 1 |
| 7 | Project-Based Learning | 1 |
| 8 | TBL | 1 |
| 9 | Flipped classroom | 1 |
| 10 | Blended Learning | 1 |
| 11 | ECE | 1 |
| 12 | Self-directed learning | 8 |
| 13 | Demo on Model | 6 |

These are overall teaching learning methods listed in Table 3 and 4. Teachers can select the best possible method amongst the given methods as per objective, available time etc.

Table 6: Assessment Summary: Assessment is subdivided in A to H points

6 A-Number of Papers and Marks Distribution

| Subject | Papers | Theory | | Practical/ | Clinical As | sessment | | |
|-------------|--------|--------|-----------|------------|-------------|----------|--------------|----------------|
| Code | | | Practical | Viva | Elective | IA | Sub Total | Grand Total |
| AyUG- SW | 2 | 200 | 100 | 60 | 10 | 30 | 200 | 400 |

6 B - Scheme of Assessment (formative and Summative)

| PROFESSIONAL | DURATION OF PROFESSIONAL COURSE | | | | | |
|--------------|---------------------------------|------------------------------|------------------------------|--|--|--|
| COURSE | First Term (1-6 Months) | Second Term (7-12 Months) | Third Term (13-18 Months) | | | |
| Second | 3 PA & First TT | 3 PA & Second TT | 3 PA & UE** | | | |

PA: Periodical Assessment; TT: Term Test; UE: University Examinations.

** University Examination shall be on entire syllabus

6 C - Calculation Method for Internal assessment Marks

| | PERIODICAL ASSESSMENT* | | | | | TERM TEH TEST** ASSESS | | |
|----------|---|-----------------|-----------------|--------------------------|--|--|----------------------------|------------------------------|
| | A 6 | В | С | D | Ε | F | G | Н |
| TERM | 1 (15 Marks) | 2 (15 Marks) | 3 (15 Marks) | Average (A+B+C/ 3) | Converted to 30 Marks (D/15*30) | Term Test (Marks converted to 30) | Sub Total _/60 Marks | Term Ass essment (/30) |
| FIRST | | | | | | | E+F | (E+F)/2 |
| SECOND | | | | | | | E+F | (E+F)/2 |
| THIRD | | | | | | NIL | | Е |
| Final IA | Average of | Three Term | Assessment | Marks as Sh | own in 'H' C | olumn. | • | |
| | Maximum Marks in Parentheses *Select an Evaluation Method which is appropriate for the objectives of Topics from the Table 6 D for Periodic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert to 30 marks. | | | | | | | |

6 D - Evaluation Methods for Periodical Assessment

| S. No | Evaluation Methods |
|-------|---|
| 1 | Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3 |

Evaluation Methods in MSE

- 1. Practical / Clinical Performance
- 2. Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
- 3. Open Book Test (Problem Based)
- 4. Summary Writing (Research Papers/ Samhitas)
- 5. Class Presentations; Work Book Maintenance
- 6. Problem Based Assignment

7. Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)

8. Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).

9. Small Project etc.

II PROFESSIONAL BAMS EXAMINATIONS AyUG-SW PAPER-1

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory

| | | Number of Questions | Marks per question | Total Marks |
|-----|---------------------------------|------------------------|-----------------------|-------------|
| Q 1 | MULTIPLE CHOICE QUESTIONS (MCQ) | 20 | 1 | 20 |
| Q 2 | SHORT ANSWER QUESTIONS (SAQ) | 8 | 5 | 40 |
| Q 3 | LONG ANSWER QUESTIONS (LAQ) | 4 | 10 | 40 |
| | | | | 100 |

Similar for Paper II

6 F Distribution of theory examination

| Paper 1 Principles of Swasthavritta, Yoga and Naturopathy | | | | | | | |
|---|--|-----------|------------|-----------------|------------------|----------------------|--|
| Sr. No | A List of Topics | B Term | C Marks | MCQ (1 Mark) | SAQ (5 Marks) | LAQ (10 Marks) | |
| 1 | Swastha and Swasthya | 1 | 6 | Yes | Yes | No | |
| 2 | Healthy Life style -Dinacharya (Daily regimen) | 1 | 38 | Yes | Yes | Yes | |
| 3 | Ratricharya | 1 | - | Yes | Yes | No | |
| 4 | Ritucharya | 1 | - | Yes | Yes | Yes | |
| 5 | Roganutpadaniya | 1 | 13 | Yes | Yes | No | |
| 6 | Sadvritta | 1 | | Yes | Yes | No | |
| 7 | Ahara | 1 | 20 | Yes | Yes | Yes | |
| 8 | Rasayana for Swastha | 1 | 5 | Yes | Yes | No | |
| 9 | Yoga | 2 | 18 | Yes | Yes | Yes | |
| 10 | Naturopathy | 2 | - | Yes | Yes | No | |
| Tot | al Marks | I | 100 | | I | | |

| Pape | Paper 2 Public health | | | | | | |
|-----------|---------------------------------|-----------|------------|-----------------|------------------|----------------------|--|
| Sr. No | A List of Topics | B Term | C Marks | MCQ (1 Mark) | SAQ (5 Marks) | LAQ (10 Marks) | |
| 11 | Janapadodhwamsa / Maraka Vyadhi | 2 | 10 | Yes | Yes | Yes | |
| 12 | Environmental health | 2 | 16 | Yes | Yes | Yes | |

| 13 | Disaster management | 2 | | Yes | Yes | No |
|-----|---|---|-----|-----|----------|-----|
| 14 | Occupational Health | 2 | 20 | Yes | Yes | No |
| 15 | School health services | 2 | - | Yes | Yes | No |
| 16 | Disinfection | 2 | - | Yes | Yes | No |
| 17 | Primary health care | 2 | 20 | Yes | Yes | Yes |
| 18 | Mother and Child health care | 2 | 1 | Yes | Yes | No |
| 19 | Family welfare programme | 2 | - | Yes | Yes | No |
| 20 | Preventive Geriatrics | 2 | - | Yes | Yes | No |
| 21 | World Health Organization and International health agencies | 2 | 19 | Yes | Yes | No |
| 22 | Vital Statistics | 2 | | Yes | Yes | No |
| 23 | Health Administration | 2 | - | Yes | Yes | No |
| 24 | National Health Programmes | 2 | 15 | Yes | No | Yes |
| 25 | National Health Policy | 2 | | Yes | Yes | No |
| Tot | al Marks | | 100 | | <u> </u> | |

| Paper No:1 | | | |
|-------------|--|---|--|
| Question No | Type of Question | Question Paper Format | |
| Q1 | Multiple choice Questions 20 Questions 1 mark each All compulsory Must know part - 15 MCQ Desirable to know - 3 MCQ Nice to know part - 2 MCQ | Swastha and Swasthya Healthy Life style -Dinacharya (Daily regimen) Ratricharya Ritucharya Ritucharya Roganutpadaniya Ahara Sadvritta Rasayana for Swastha Yoga Naturopathy Swastha and Swasthya Healthy Life style -Dinacharya (Daily regimen) Ritucharya Ratricharya Roganutpadaniya Sadvritta Ratricharya Ratricharya Ratricharya Ratricharya Ratricharya Rasayana for Swastha Yoga Naturopathy Naturopathy | |
| Q2 | Short answer Questions Eight Questions 5 Marks Each All compulsory Must know - 7 SAQ Desirable to know - 1 SAQ No questions on Nice to know | Swastha and Swasthya Healthy Life style -Dinacharya (Daily regimen) Ratricharya Ritucharya Roganutpadaniya Sadvritta Naturopathy / Yoga Ahara | |
| Q3 | Long answer Questions Four Questions 10 marks each All compulsory All questions on must know. No Questions on Nice to know and Desirable | Healthy Life style -Dinacharya (Daily regimen) Ritucharya Ahara Yoga | |

| | to know | | | |
|-------------|--|--|--|--|
| Paper No:2 | | | | |
| Question No | Type of Question | Question Paper Format | | |
| Q1 | Multiple choice Questions 20 Questions 1 mark each All compulsory Must know part - 15 MCQ Desirable to know - 3 MCQ Nice to know part - 2 MCQ | Janapadodhwamsa / Maraka Vyadhi Environmental health Disaster management Occupational Health School health services Disinfection Primary health care Mother and Child health care Family welfare programme Preventive Geriatrics World Health Organization and International health agencies Vital Statistics Health Administration National Health Programmes Janapadodhwamsa / Maraka Vyadhi Environmental health Occupational Health Janapadodhwamsa / Maraka Vyadhi Fanily welfare programmes Janapadodhwamsa / Maraka Vyadhi Fanily welfare programmes Janapadodhwamsa / Maraka Vyadhi Fanily welfare programmes Janapadodhwamsa / Maraka Vyadhi | | |
| Q2 | Short answer Questions Eight Questions 5 Marks Each All compulsory Must know - 7 SAQ Desirable to know - 1 SAQ No questions on Nice to know | Janapadodhwamsa / Maraka Vyadhi Disaster management Environmental health School health services Occupational Health Mother and Child health care Family welfare programme Preventive Geriatrics | | |
| Q3 | Long answer Questions Four Questions 10 marks each All compulsory All questions on must know. No Questions on Nice to know and Desirable | Janapadodhwamsa / Maraka Vyadhi Environmental health Primary health care National Health Programmes | | |

| to know | |
|----------|--|
| <u> </u> | |

6 H Distribution of Practical Exam

| S.No | Heads | Marks |
|------|--|-------|
| 1 | Yoga - Demonstration of 4 Asanas and 1 Pranyama or Shatkarma proedure Any four asanas from following list for demonstration- Trikonasana, Ardhakatichakrasana, Gomukhasana, Bhadrasana, Pavanamuktasana, Sarvangasana, Bhujangasana and Shalabhasana. Each asana will carry 4 marks x 4 = 16 Procedure -1 mark, Final posture Holding time - 1, Breathing pattern-1 mark and On site viva - 1 mark Any one Pranayama among Nadishuddhi, Suryabhedana, Seetali, Seetkari , Bhramari or any one shatkarma among Neti and KapalabhatiEach pranayama or Shatkarma will carry 4 marks | |
| 2 | Diet and Lifestyle advice case sheet A. Advise on Diet case - 25 Marks - Scenario will be given and asking student to prescribe diet as per the age, prakriti, occupation, agni bala etc, B. Advise on Lifestyle - 15 Marks - Scenario will be given and asking student advise lifestyle modifications such as Brahme muhurta uthishteth, Vyayama, Kavala- gandusha,Abhyanga, Udwartana ,Pratimarsha nasya etc, , | 40 |
| 3 | Problem-based evaluation - Disinfection, Communicable diseases Environmental health, & Non- Communicable incuding deficiency diseases, | 30 |
| | A. Disinfection (identification, dose, suitsbility , dilution and contact period), Communicable diseases (giving scenarios and identifying diseases and mentioning preventive measures) and Environmental health (giving scenarios related environmental health issues and asking students to mention preventive and control measures) - 15 Marks | |
| | B. Non- Communicable diseases (creating scenarios and asking to identify the diseases with preventive and control methods) and deficiency diseases (creating scenarios and asking students to indentify the deficiency conditions and asking the students to recommend the nutrients with nutrional profile etc, 15 Marks | |
| 4 | Practical Records | 10 |
| 5 | Viva | 60 |
| | Viva on Project work (Activity based) - 10 Marks | |

Viva on I Paper - 25 Marks

A. Definition of Swastha , Swasthya, Swasthavritta and Health, dimentions of health, objective and subjective components of well-being- 2Mark

B. Benefits of Ushajala pana, Kavala , Gandusha, Dantadhavana, Anjana, Abhyanga,Udvartana, Vyayama, Snana and Tambula - 4 Mark

C. Rarti bhojana, Definition of Nidra, Types of nidra, Ahita nidra, definitions of sleep disorders, Definitions of Brahmacharya and Abrahmacharya and Adanakala and Visarga kala ritus, Doshavastha, Balavastha, Agniavastha of different ritus, Definition of Ritusandhi, Yamadamshtra - 2 Marks

D. Adharaneeya vegas , Dharaneeya vega , definition of sadvritta and Acararasayana - 2 Marks

E. Importance of Ahara, classification of foods, Aharasevana kala, Ashta ahara vidhivisesha ayatana, Dwadasaha asana pravicarana with slokas , listing of nityasevana ahara dravya(Preferebly sloka), meaning of Pathya , Samashana, Adhyashana, Vishamasana. Sources and deficiency diseases of nutrients, Pastuerization of milk and its methods, meaning of different diet patterns, definition of nutrogenomics, nutracueticals, nutrigenetics and viridhha ahara . Definition, benefits and types of rasayana and definition of anti-oxidants with examples- 10 Marks

F. Definitions of Yoga , Meaning and types of Yama , Niyama, Asana,Pranayama, Pratyahara, Dharana, Dhyana,Samadhi (slokas mandatory), listing of shatkarma and indications of shatkarma (sloka mandatory), types of Bamdha, names of Shatchakra, diferences between Sushumna, Pingala and Ida nadi, definition of Moksha, Muktatma lakshana , Moksha upaya, , Basic principles of Naturopathy, Types of Fasting, Hydrotherapy and Massage - 5

Paper II - 25 Marks

| otal N | Iarks | 200 |
|--------|--|-----|
| 7 | Interna Assessment - | 30 |
| 6 | Elective (Set SC) | 10 |
| | E . Definition of Geriatrics,Problems of aged, Definition,structure and regions of WHO, Year of eshtablishment , head quarters and main functions of international health agencies, Definition and sorces of vital statistics, organizational structure of health administartion , Year of eshtablishment and main objectives of different national health programmes- 5 Marks | |
| | D. Definition, principles and elements of Primary health care, population coverage, functions and staff pattern at Sub-centre, Primary health centre and Community health centre, Objectives, problems and indicators of MCH, Definitions of demography, familiy planning ,eligible couple and target couple and methods of family palnning - 5Marks | |
| | C. Definition of occupational health, listing out occupational hazards and diseases. Est act & Factories act, Health problems of school children, definition of different terms related to disinfection, types and agents of disinfection - 5 Marks | |
| | B. Composition of Air, Definition of Comfort zone, Ventilation and its types, Definition of safe and wholesome water, Sources and types ofWater , Purification methods of water as per Ayurveda & Contemporary medicine, Definition of different types of waste, Definition of disaster and types of disasters- 5Marks | |
| | A. Meaning and causes of Janapadodhwamsa, Definitions of terms related to Epidemiolgy and infectious diseases, Dynamics of disease tranmission, Immunizing agents and Immunization schedule. Definition of vyadhikshamatva, Causative organisms and preventive measures of Communicable diseases -5 Marks | |

| S.No | Book | Resources |
|------|---|--|
| 1 | Relevant portions of Charaka, Sushruta, Vagbhata, Sarngadhara, Bhavaprakasha, Yogaratnakara, Madhavanidana and Bhelasamhita relevantSamhithas | Print /online samhithas |
| 2 | SwasthavrittaSamucchaya Vaidya . Rajeswaradutta shastri , Chaukhambha Viswabharathi, Varanasi, India | |
| 3 | Swasthavrittavigyan | Dr.Ramaharsha singh , Chaukhambha Publishing house, Varanasi, India |
| 4 | Yoga sutras of Patanjali | BKS Iyengar , Published by Harper collins , Publishers India , Newdelhi |
| 5 | Hathayogapradipika | Swami Muktibodananda, Published by Yoga publications trust, Ganga darshan, Munger, Bihar, India |
| 6 | Gheranda samhitha | Edited with Sweta , English commentary of Mrs.Shweta Bhat and Edited by Goswami Prahlad Giri, Published by Krishnadas Academy , Varanasi- 221001 |
| 7 | Yoga deepika | BKS Iyengar , Published by Harper collins , Publishers India , Newdelhi |
| 8 | Light on Yoga | BKS Iyengar , Published by Harper collins , Publishers India , Newdelhi |
| 9 | Light on Pranayama - | BKS Iyengar , Published by Harper collins , Publishers India , Newdelhi |
| 10 | The Foundations of Contemporary Yoga | Professor RH Singh , Published by Chaukhambha Sanskrit Pratishtan, Newdelhi |
| 11 | Park's Text book of Preventive and Social Medicine | K.Park , Published by M/s BANARASIDAS BHANOT, LABALPUR, INDIA |
| 12 | Text book of Preventive and Social Medicine | MC Gupta & BK Mahajan, Published by JAYPEE BROTHERS , Medical publishers , Newdelhi |
| 13 | Dr. Reddy's comprehensive guide to Swasthavritta | Dr.P.Sudhakar Reddy, Published by Chaukhambha Sanskrit Pratishtan, New Delhii |
| 14 | Indian food composition Tables | T Longvah, Published by National institute of Nutrition, Hyderabad |
| 15 | Food and nutrition | Swaminathan, Published by Banglore Printing & Publishing Co.Ltd, Banglore |
| 16 | Swasthavrittasudha | Vd.Kashinath Samagandi, Published byb Ayurveda Sanskrit hindi pustak bhandar , Jaipur . |

| 17 | S.Kashi's Text book of Svasthavrtttamritam | Vd.Kashinath Samagandi, Published by Ayurved sanskrit hindi pustak bhandar, Jaipur |
|----|---|---|
| 18 | Text Book of Swasthavrittam | Dr. Mangala Gouri V Rao, Chaukhambha Orientalia, Varanasi, India (2022) |
| 19 | Text book on Swasthavritta | Dr.P. Sudhakar Reddy , Dr.Beena MDPublishers : Chaukhambha Orientalia, Varanasi, India Year : 2022 |
| 20 | Bhojanakutuhalam | Raghunatha suri, Edited by Scholars of the Centre for Theoretical foundations (CTF), Institute of Ayurveda and Integrative Medicine I-AIM, FRLHT, Bengaluru- 560064 |
| 21 | Kshemakutuhalam | Compiled by Kshema sharma , Published By Indian institute of Ayurveda & Integrative medicine , Bengaluru-560064 |
| 22 | Recent trends in Community Medicine | Suryakantha AH, Published by JAPEEPY BROTHERS |
| 23 | The Essentials of Natur cure | Dr.Mangala Gouri.V. Rao, Published by Chaukhambha Orientalia, Varanasi |
| 24 | WHO | https://www.who.int |
| 25 | Food laws | https://www.corpseed.com/knowledge-centre/food-laws- and-regulations-in-india |
| 26 | Food acts | : <u>https://fssai.gov.in/cms/food-safety-and-standards-</u> act-2006.php |
| 27 | National health programs | https://ncdc.mohfw.gov.in/index4.php?lang=1&level=0&lin kid=55&lid=138 |
| 28 | Family welfare programme | https://ncdc.mohfw.gov.in/index4.php?lang=1&level=0&lin kid=55&lid |
| 29 | Health & Family welfare | https://www.india.gov.in/topics/health-family-welfare |
| 30 | Census of India | : https://censusindia.gov.in |
| 31 | Hatha yoga Pradeepika | Pandith. Hariprasad Tri[athi, Published by Chaukhambha Krishna das Academy, Varanasi , India |
| 32 | A Complete Handbook of Nature cure | H.K.BAKHRU, JAICO Publishing house, Bombay |
| 33 | Yoga & Ayurveda | Satyendra prasad MIshra , Published by Chaukhambha Sanskrit Samsthan , Varanasi |
| 34 | The Yoga Science | Dr. Ravi R Javalgekar , Published by Chaukhambha Sanskrit Sansthan , Varanasi, India |
| 35 | Concept of Ayurveda for perfect Health & Longevity | Vaidya H.S. Kasture , Published by Shree baidyanath Ayurveda Bhavan Private LTD, Nagpure , India |

| 36 | Essentials of Community medicine practicals | DK Mahabalaraju, Published by JAYPEE BROTHERS Medical publishers , Newdelhi |
|----|---|--|
| 37 | Positive health through Ayurveda | Dr.LP Gupta & Dr.LV Guru, Published by Chaukhambha sanskrit Pratishtana , Newdelhi |
| 38 | Food Science | B Srilakshmi , Published by NEW AGE INTERNATIONAL (P)LIMITED, PUBLISHERS , NEWDELHI |
| 39 | Apollo Clinical Nutrition- Handbook | Anita Jatan, Daphnee DK, Haritha Shyam, Priyanka Rohatgi and Kajal Pandya Yeptho- Published by JAYPEE BROTHERS MEDICAL PUBLISHERS PVT LTD, NEWDELHI |

Abbreviations

Assessment

| S.No | Short form | Discription |
|------|------------|-------------------------------|
| 1 | T-EMI | Theory extended matching item |
| 2 | T- EW | Theory Essay writing |
| 3 | T- MEQs | Theory MEQs |
| 4 | T-CRQs | Theory CRQs |
| 5 | T-CS | Theory case study |
| б | T-OBT | Theory open book test |
| 7 | P-VIVA | Practical Viva |
| 8 | P-REC | Practical Recitation |
| 9 | P-EXAM | Practical exam |
| 10 | PRN | Presentation |
| 11 | P-PRF | Practical Performance |
| 12 | P-SUR | Practical Survey |
| 13 | P-EN | Practical enact |
| 14 | P-RP | Practical Role play |
| 15 | P-MOD | Practical Model |
| 16 | P-POS | Practical Poster |
| 17 | P-CASE | Practical Case taking |
| 18 | P-ID | Practical identification |
| 19 | P-PS | Practical Problem solving |
| 20 | QZ | Quiz |
| 21 | PUZ | Puzzles |
| 22 | CL-PR | Class Presentation, |
| 23 | DEB | Debate |
| 24 | WP | Word puzzle |
| 25 | 0-QZ | Online quiz |

| 26 | O-GAME | Online game-based assessment |
|----|--------------|------------------------------|
| 27 | M-MOD | Making of Model |
| 28 | M-CHT | Making of Charts |
| 29 | M-POS | Making of Posters |
| 30 | C-INT | Conducting interview |
| 31 | INT | Interactions |
| 32 | CR-RED | Critical reading papers |
| 33 | CR-W | Creativity Writing |
| 34 | C-VC | Clinical video cases, |
| 35 | SP | Simulated patients |
| 36 | PM | Patient management problems |
| 37 | СНК | Checklists |
| 38 | OSCE | OSCE |
| 39 | OSPE | OSPE, |
| 40 | Mini-CEX | Mini-CEX |
| 41 | DOPS | DOPS |
| 42 | CWS | CWS |
| 43 | RS | Rating scales |
| 44 | RK | Record keeping |
| 45 | СОМ | Compilations |
| 46 | Portfolios | Portfolios |
| 47 | Log book | Log book |
| 48 | TR | Trainers report |
| 49 | SA | Self-assessment |
| 50 | РА | Peer assessment |
| 51 | 360D | 360-degree evaluation |
| 52 | TT-Theory | Theory |
| 53 | PP-Practical | Practical |
| 54 | VV-Viva | Viva |

Domain

| S.No | Short form | Discription |
|------|------------|-----------------------------|
| 1 | СК | Cognitive/Knowledge |
| 2 | CC | Cognitive/Comprehension |
| 3 | САР | Cognitive/Application |
| 4 | CAN | Cognitive/Analysis |
| 5 | CS | Cognitive/Synthesis |
| 6 | СЕ | Cognitive/Evaluation |
| 7 | PSY-SET | Psychomotor/Set |
| 8 | PSY-GUD | Psychomotor/Guided response |
| 9 | PSY-MEC | Psychomotor/Mechanism |
| 10 | PSY-ADT | Psychomotor Adaptation |
| 11 | PSY-ORG | Psychomotor/Origination |
| 12 | AFT-REC | Affective/ Receiving |
| 13 | AFT-RES | Affective/Responding |
| 14 | AFT-VAL | Affective/Valuing |
| 15 | AFT-SET | Affective/Organization |
| 16 | AFT-CHR | Affective/ characterization |

T L method

| S.No | Short form | Discription | | |
|------|------------|---------------------------------------|--|--|
| 1 | L | Lecture | | |
| 2 | L&PPT | Lecture with Power point presentation | | |
| 3 | L&GD | Lecture & Group Discussion | | |
| 4 | L_VC | Lecture with Video clips | | |
| 5 | DIS | Discussions | | |
| 6 | BS | Brainstorming | | |
| 7 | IBL | Inquiry-Based Learning | | |
| 8 | PBL | PBL | | |
| 9 | CBL | CBL | | |
| 10 | PrBL | Project-Based Learning | | |
| 11 | TBL | TBL | | |
| 12 | TPW | Team project work | | |
| 13 | FC | Flipped classroom | | |
| 14 | BL | Blended Learning | | |
| 15 | EDU | Edutainment | | |
| 16 | ML | Mobile learning | | |
| 17 | ECE | ECE | | |
| 18 | SIM | Simulation | | |
| 19 | RP | Role plays | | |
| 20 | SDL | Self-directed learning | | |
| 21 | PSM | Problem solving method | | |
| 22 | KL | Kinesthetic Learning | | |
| 23 | W | Workshops | | |
| 24 | GBL | Game-Based Learning | | |
| 25 | D-M | Demo on Model | | |

| 26 | LS | Library Session | | |
|----|-------|---------------------------|--|--|
| 27 | PL | Peer learning | | |
| 28 | RLE | Real life experience | | |
| 29 | REC | Recitation | | |
| 30 | SY | Symposium | | |
| 31 | TUT | Tutorial | | |
| 32 | PER | Presentations | | |
| 33 | РТ | Practical | | |
| 34 | XRay | X ray identification | | |
| 35 | CD | Case diagnosis | | |
| 36 | LRI | Lab report interpretation | | |
| 37 | DA | Drug analysis | | |
| 38 | D | Demonstration | | |
| 39 | D_BED | Demonstration bedside | | |
| 40 | D_L | Demonstration Lab | | |
| 41 | DG | Demonstration Garden | | |
| 42 | FV | Field visit | | |
| 43 | PRA | Practical | | |
| | | | | |
| | | | | |

Course curriculum for Second Professional BAMS

(PRESCRIBED BY NCISM)



Roga Nidan evam Vikriti Vigyan (SUBJECT CODE : AyUG-RN)

(Applicable from 2021-22 batch, from the academic year 2023-24 onwards for 5 years or until further notification by NCISM, whichever is earlier)





BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110058

NCISM

II Professional Ayurvedacharya (BAMS)

Subject Code : AyUG-RN

Summary

| Total number of Teaching hours: 450 | | | | | | | |
|-------------------------------------|------------|-----|----------|--|--|--|--|
| Lecture hours(LH)-Theor | У | | 150(LH) | | | | |
| Paper I | 60 | 150 | | | | | |
| Paper II | 90 | | | | | | |
| Non Lecture hours(NLH) | -Theory | | 300(NLH) | | | | |
| Paper I & II | 90 | 300 | | | | | |
| Non Lecture hours(NLH) | -Practical | | | | | | |
| Paper I & II | 210 | | | | | | |

| Examination (Papers & Mark Distribution) | | | | | | | | | | |
|--|------------------------|---------------------------|------|----------|----|--|--|--|--|--|
| Item | Theory Component Marks | Practical Component Marks | | | | | | | | |
| | | Practical | Viva | Elective | IA | | | | | |
| Paper I | 100 | 100 | 70 | - | 30 | | | | | |
| Paper II | 100 | 100 | | | | | | | | |
| Sub-Total | 200 | 200 | | | | | | | | |
| Total marks | 400 | | | | | | | | | |

Important Note:-The User Manual II BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual II before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic.

In case of difficulty and questions regarding curriculum write to cur.imp@ncismindia.org

PREFACE

Roganidan Evum Vikriti Vigyan is a subject that gives emphasis on Ayurveda and contemporary Diagnostics and Pathology. It is a key subject that trains the students to apply knowledge of fundamental principles of Ayurveda to practice by understanding diseases, patient interaction, drawing diagnosis, and prognosis. This is a strong base to frame an appropriate treatment protocol.

The curriculum is framed with a vision for developing the diagnostic knowledge and skills of a student abiding by a patient-centric education. Activty-based training has been inculcated throughout the curriculum to improve the dexterity of a student in handling real-life scenarios in the journey of reaching a diagnosis. The anatomy and physiology learned in an apparently healthy individual from the first professional year is continued in the second professional year with knowledge regarding morbid reflections in the mind and body through this subject.

The sequence of knitting the points in theory and practical are carefully executed to maintain rationality and continuity in learning from a clinical perspective. The basic principles of Vikriti vigyan and their application in Roga nidana, Vyadhi vigyana and clinical diagnostics supported by contemporary diagnostics are the core areas of the curriculum. The essential areas from contemporary pathology and diagnostics are included with the objective to receive interdisciplinary integrated teaching. Some of the topics are defined for horizontal & vertical integration for better understanding.

Innovative teaching learning and assessment methods are introduced. These will develop an interest in students, making the curriculum student and patient-centric and will help to develop competencies, skills, attitudes, and communication as these are indispensable components of the learning process in Health care/ Medicine.

In addition to classroom teaching-learning, the dedicated time has been allotted to clinical activities, selfdirected learning, group learning, survey to identify specific illnesses, CBL, and PBL, which are aligned with traditional and innovative formative assessments and scientific writings; ultimately expecting the improved performance of the students in summative assessments and as a successful practitioner in future by implementing Competency-Based Medical Education. The subject will be definitely helpful to the students to create a justifiable diagnosis for future treatment plans which is the basic need for successful practice.

INDEX

| Course Code and Name of Course | |
|--|-----|
| Table 1- Course learning outcomes and matched PO | 5 |
| Table 2 : Contents of Course | |
| Paper 1 | 6 |
| Paper 2 | 8 |
| Table 3: Learning objectives (Theory) of Course | 12 |
| Paper 1 | 12 |
| Paper 2 | 29 |
| List of Practicals | |
| Table 4: Learning objectives (Practical) | |
| Practical 1 | 59 |
| Table 4a: List of Practical | 66 |
| Activity | |
| Table 5- Teaching learning method | |
| Table 6: Assessment Summary: Assessment is subdivided in A to H points | |
| 6 A-Number of Papers and Marks Distribution | |
| 6 B - Scheme of Assessment (formative and Summative) | |
| 6 C - Calculation Method for Internal assessment Marks | |
| 6 D - Evaluation Methods for Periodical Assessment | |
| 6 E Question Paper Pattern | 84 |
| 6 F Distribution of theory examination | |
| Paper 1 | |
| Paper 2 | |
| 6 G Blue print of paper I & II | |
| 6 H Distribution of Practical Exam | |
| References Books/ Resources | |
| Abbreviations | 103 |

Course Code and Name of Course

| Course code | Name of Course |
|-------------|--------------------------------|
| AyUG-RN | Roga Nidan evam Vikriti Vigyan |

Table 1- Course learning outcomes and matched PO

| SR1 CO No | A1 Course learning Outcomes (CO) AyUG-RN At the end of the course AyUG-RN, the students should be able to- | B1 Course learning Outcomes matched with program learning outcomes. |
|-----------------|---|---|
| CO1 | Identify the morbidities in accordance with principles of Ayurveda pathology (vikriti vigyan siddhanta) | PO1 |
| CO2 | Describe the basic, general, and systemic pathological process thereby applying it in reaching a diagnosis | PO2,PO3 |
| CO3 | Perform appropriate clinical examination (pareeksha) utilizing Ayurveda and contemporary principles (samakalina siddhanta) | PO2,PO3,PO4 |
| CO4 | Order and interpret various diagnostic laboratory investigations and imaging | PO2,PO3 |
| CO5 | Diagnose and present the case with clinical reasoning (naidanika tarka) | PO5 |
| CO6 | Follow and advise advancements in diagnosis (vyadhi vinischaya) and prognosis (sadhya asadhyata) in clinical practice (naidanika adhyayana) | PO7 |
| CO7 | Communicate effectively with the patient (rugna), relatives (bandhujan) and other stakeholders (anya hita dhaaraka) | PO8 |
| CO8 | Demonstrate ethics (sadvritta), compassion (karuna) and possess qualities of a clinician (vaidya guna) | PO6,PO9 |

Table 2 : Contents of Course

| Pap | er 1 Fundamental Principles of Vikriti Vigyan | | - | | | | | | | | | | | |
|-----------|---|------------|-------------|------------------------|--------------------------------|---|--|---|--|---|--|--|---|---|
| Sr. No | A2 List of Topics | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours | | | | | | | | | |
| 1 | 1. Roga nidana – Pathophysiology and clinical diagnosis | 1 | 43 | 1 | 0 | | | | | | | | | |
| 2 | 2. Pareeksha Roga and Rogi Pareeksha | 1 | - | 1 | 0 | | | | | | | | | |
| 3 | 3. Methods of Rogi pareeksha | 1 | | 4 | 3 | | | | | | | | | |
| 4 | 4. Sapeksha nidana - Vyavacchedaka nidana Sapeksha nidana - Vyavacchedaka nidana of Ukta/Anukta vyadhi: Methods of differential diagnosis | 1 | | - | | - | | - | | - | | | 1 | 0 |
| 5 | 5. Upashaya/ Anupashaya | 1 | | 1 | 0 | | | | | | | | | |
| 6 | 6. Dosha Vikriti A. Nidana (Vyadhi janaka hetu) B. Agni bheda and Vikriti C. Dosha Vriddhi, Kshaya and Dushta Karma, Ashyapakarsha, Avarana, Samsargaja, Sannipataja. D. Dosha swabhava - Nityasamshleshita (Leena) dosha and Paricchedita dosha E. Paridhavamana dosha | 1 | | 3 | 2 | | | | | | | | | |
| 7 | 7. Doshagati and Rogamarga | 1 | | 1 | 0 | | | | | | | | | |
| 8 | 8. Srotodushti Samanya sroto dusti nidana and lakshana | 1 | - | 1 | 0 | | | | | | | | | |
| 9 | 9. Concept of Ama A. Samanya nidana, and Samanya lakshana B. Bheda (Anna rasa. Mala sanchaya (Dhatwagni mandya janit). Dosha dushti) | 1 | | 2 | 0 | | | | | | | | | |
| 10 | 10. Assessment of Ama Sama and nirama dosha lakshana, Pureesha lakshana | 1 | | 0 | 1 | | | | | | | | | |
| 11 | 11. Sthana samshraya – Poorvaroopa | 1 | 49 | 1 | 0 | | | | | | | | | |
| 12 | 12. Dushya dushti A. Dhatu and mala vriddhi kshaya lakshana B. Specific Sroto dusti lakshana in relation to Dosha, Upadhatu, Mala, Indriya, Avayava, and Mana dushti lakshana | 1 | | 9 | 9 | | | | | | | | | |
| 13 | 13. SampraptiA. Samprapti bheda B. Vyadhi janma and Vyadhi janya | 1 | | 1 | 0 | | | | | | | | | |

| 14 | 14. Rupa Pratyatma/ Samanya/ Vishishta Rupa | 1 | | 1 | 0 |
|----|--|---|---|----|---|
| 15 | 15. Vyadhinamakarana | 1 | | 1 | 1 |
| 16 | 16. Vyadhi A. Definition, B. Classification – Dwividha/ Trividha/ Chaturvidha/ Saptavidha (Adibala/ Sahaja - Genetic, Janmabala/ Garbhaja - Congenital, Dosha bala/ Jataja - Acquired, Sanghatabala/ Peedaja - Traumatic, Daivabala/ Prabhavaja - Iatrogenic, Kalabala/ Kalaja – Environmental and Geriatric, Swabhava balapravrutta), etc. | 1 | | 4 | 0 |
| 17 | 17. Ashtanindita (Endocrine disorders) | 1 | | 1 | 0 |
| 18 | 18. Janapadodhwamsa vikara (Pandemic disorders) | 1 | | 1 | 0 |
| 19 | 19. Nidanarthakara Vyadhi, Vyadhisankara | 1 | | 1 | 0 |
| 20 | 20. Vyadhikshamatva A. Vikaravighata Bhava & Abhava, SatmyaB. Ojus - Bheda – Two types and Four types C. Dosha Paka D. ImmunityE. Healing/repair | 1 | | 2 | 0 |
| 21 | 21. Rogi bala Pareeksha | 1 | | 2 | 1 |
| 22 | 22. Dhatu Paka A. Dhatu pakaB. Ojodusti lakshana C. Asatmya - Immune pathologyD. Cell Injury and Cellular adaptations E. Inflammation F. Haemodynamic disorders G. Neoplasia | 1 | | 12 | 1 |
| 23 | 23. Infection and Nutritional disorders | 1 | 8 | 4 | 1 |
| 24 | 24. Upadrava | 2 | | 1 | 0 |
| 25 | 25. Arishta | 2 | | 1 | 0 |
| 26 | 26. Vyadhi bala pareeksha | 2 | | 1 | 0 |
| 27 | 27. Sadhyasadhyatva – Prognosis | 2 | | 1 | 0 |
| 28 | 28. Digital health and Artificial intelligence in the context of Roganidana | 2 | | 1 | 1 |

| Total Marks | 100 | 60 hr | 20 hr |
|-------------|-----|-------|-------|
|-------------|-----|-------|-------|

| Pap | er 2 Vyadhi Vigyan, contemporary understanding and upda | ates | | | |
|-----------|---|------------|-------------|------------------------|--------------------------------|
| Sr. No | A2 List of Topics | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
| 29 | 1. Agnimandya – Ajeerna, Anaha, Adhmana, Atopa | 2 | 43 | 1 | 0 |
| 30 | 2. Chhardi | 2 | | 1 | 0 |
| 31 | 3. Amlapitta | 2 | | 2 | 0 |
| 32 | 4. Shoola Parinama Shoola, Annadrava Shoola | 2 | | 1 | 0 |
| 33 | 5. Atisara, and Pravahika | 2 | | 3 | 1 |
| 34 | 6. Grahani | 2 | | 2 | 1 |
| 35 | 7. Visuchika, Alasaka, Vilambika | 2 | | 1 | 0 |
| 36 | 8. Common GIT diseases Ulcerative dyspepsia and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, Inflammatory Bowel Diseases | 2 | | 1 | 4 |
| 37 | 9. Mutrakrichhra | 2 | | 2 | 1 |
| 38 | 10. Mutraghata | 2 | | 3 | 1 |
| 39 | 11. Common Urinary diseases Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury and Chronic Kidney Disease | 2 | | 1 | 6 |
| 40 | 12. Hikka | 2 | | 1 | 0 |
| 41 | 13. Shwasa | 2 | | 2 | 1 |
| 42 | 14. Kasa | 2 | 1 | 2 | 0 |

| 43 | 15. Rajayakshma & Shosha | 2 | | 3 | 0 |
|----|--|---|----|---|---|
| 44 | 16. Common lung disorders Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, Bronchiectasis | 2 | | 1 | 4 |
| 45 | 17. Jwara Jwarabheda - Doshaja and Agantuja (Abhishanga jwara), Vishama Jwara, Punaravartaka Jwara, Jwara avastha - Ama, Pachyamana and Nirama Jwara | 2 | | 4 | 1 |
| 46 | 18. Masurika – Romantika | 2 | | 1 | 0 |
| 47 | 19. Fever A. General mechanism of Fever. B. Introduction to Eruptive fevers - Measles, Chicken pox, Rubella, Hand foot mouth disease, Herpes zoster C. Parasitic fevers – Filariasis, Malaria, D. Detailed description of Common infective fevers – Typhoid, Dengue, Influenza, Chikungunya, E. Common regional disorders presenting with fever | 2 | | 1 | 6 |
| 48 | 20. Pandu | 2 | | 2 | 0 |
| 49 | 21. Raktapitta | 2 | 25 | 1 | 1 |
| 50 | 22. Hematopoietic diseases Anaemia, Nutritional anaemia, Thalassemia, Sickle cell Anaemia, Leukaemia, Thrombocytopenia | 2 | | 1 | 6 |
| 51 | 23. Hridroga | 2 | | 1 | 1 |
| 52 | 24. Shotha | 2 | | 2 | 0 |
| 53 | 25. Cardiovascular disorders Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure | 2 | | 1 | 5 |
| 54 | 26. Kamala | 2 | | 2 | 0 |
| 55 | 27. Udara Roga | 2 | | 2 | 1 |
| 56 | 28. Hepatobiliary diseases Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Disease, Hepatitis, Jaundice and Ascites | 2 | | 1 | 2 |
| 57 | 29. Kushtha - Maha Kushtha & Kshudra Kushtha | 3 | | 3 | 1 |

| | (According to Charaka) | | | | |
|----|---|---|----|---|---|
| 58 | 30. Sheetapitta | 3 | | 1 | 0 |
| 59 | 31. Shwitra | 3 | | 1 | 0 |
| 60 | 32. Visarpa | 3 | | 2 | 0 |
| 61 | 33. Skin diseases Allergic disorders - Eczema, Urticaria; Squamous lesions - Psoriasis, Lichen planus; Bullous lesion – Pemphigus and Pemphigoid; Mycotic skin diseases; Leprosy; Vitiligo; Cellulitis | 3 | | 1 | 6 |
| 62 | 34. Galaganda | 3 | | 1 | 0 |
| 63 | 35. Thyroid disorders Hypothyroidism and hyperthyroidism | 3 | | 1 | 1 |
| 64 | 36. Sthoulya – Karshya | 3 | 32 | 1 | 0 |
| 65 | 37. Obesity | 3 | | 1 | 1 |
| 66 | 38. Prameha | 3 | | 2 | 1 |
| 67 | 39. Diabetes Mellitus and Pancreatitis | 3 | | 1 | 1 |
| 68 | 40. Vatavyadhi Samanya nidana, Samanya purvarupa, Samanya lakshana | 3 | | 1 | 0 |
| 69 | 41. Snayugata vata Snayugata vata, Akshepaka – Apatanaka; Ardita, Pakshaghata, Kampavata, Gridhrasi, Vishwachi, Pangutwa | 3 | | 4 | 2 |
| 70 | 42. Common neurologic and spine disorders Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic). Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumbar Spondylosis | 3 | | 2 | 4 |
| 71 | 43. Sandhigatavata and Asthi majja gata vata Sandhigatavata, Katigraha, Manyasthambha, Vatakantaka, Avabahuka, Amsashosha | 3 | | 1 | 0 |
| 72 | 44. Diseases of bone, joints, and muscles | 3 | 1 | 1 | 2 |

| Tot | al Marks | | 100 | 90 hr | 70 hr |
|-----|---|---|-----|-------|-------|
| 88 | 60. Tuberculosis | 3 | | | |
| 87 | 59. Shleepada | 3 | | 1 | 0 |
| 86 | 58. Khalitya & Palitya | 3 | | 1 | 0 |
| 85 | 57. Clinical presentation of common parasitic disorders Hook worm, Round worm, Thread worm, Pin worm | 3 | | 1 | 2 |
| 84 | 56. Krimiroga | 3 | - | 1 | 0 |
| 83 | 55. Syphilis & Gonorrhoea | 3 | - | 1 | 1 |
| 82 | 54. Phiranga and Upadamsha | 3 | | 1 | 0 |
| 81 | 53. Common Psychiatric diseases Depression, Anxiety neurosis and Epilepsy (Non-organic) | 3 | - | 1 | 0 |
| 80 | 52. Murchha, and Sanyasa | 3 | | 1 | 0 |
| 79 | 51. Vishada | 3 | | 1 | 0 |
| 78 | 50. Unmada & Apasmara | 3 | | 3 | 0 |
| 77 | 49. Sexual dysfunction and Infertility | 3 | | 1 | 1 |
| 76 | 48. Klaibya & Vandhyatva | 3 | | 1 | 0 |
| 75 | 47. Immunological & Metabolic disorders Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, Gout | 3 | | 1 | 2 |
| 74 | 46. Vatarakta | 3 | | 2 | 1 |
| 73 | 45. Amavata | 3 | | 2 | 0 |
| | Diseases of bone and Joints - Osteoarthritis, Osteoporosis. Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome; Muscular diseases - Muscular Dystrophy | | | | |

| Paper 1 Fund | amental Principles of Vikriti Vigyan | | | | | | | | |
|-------------------------|---|----------------------|--|--|-------------------------|--|---------------------------------------|------------|-----------------------|
| A3 Course outcome | B3 Learning Objective (At the end of the session, the students should be able to) | C3 Doma in/sub | D3 Must to know / desirable to know / Nice to know | E3 Level Does/ Show s how/ Know Know/ | F3 T-L meth od | G3 Assessment (Refer abbreviations) | H3 Form ative/ summ ative | I3 Term | J3 Integr ation |
| Topic 1 1. R | oga nidana – Pathophysiology and clinical diagnosis (Lectur | re :1 hou | rs, Non lecture: | 0 hours |) | | | • | <u> </u> |
| CO1 | Explain the concept of Roganidana | CC | МК | КН | L&PP T | INT | F&S | Ι | |
| CO1 | Explain the concept of pathophysiology and clinical diagnosis | CC | МК | КН | L&PP T | O-QZ | F&S | Ι | |
| Topic 2 2. Pa | areeksha (Lecture :1 hours, Non lecture: 0 hours) | | I | 1 | 1 | 1 | | 1 | 1 |
| CO1 | Define and enlist types of pareeksha | СК | МК | K | L&PP T | INT,TT- Theory | F&S | Ι | |
| CO1 | Describe importance of pareeksha | CC | МК | КН | L&PP T | DEB | F&S | Ι | |
| CO1 | Explain the concept of rogi pareeksha | CC | МК | КН | L&PP T | INT | F&S | I | |
| CO1 | Enlist rogi pareeksha | СК | МК | К | L&PP T | O-QZ,INT | F&S | I | |

| CO1 | Describe importance of rogi pareeksha | CC | МК | КН | L&G D | DEB | F&S | I | |
|---------------------|--|--------|----|----|----------------------------|-------------------|-----|---|--|
| CO1 | Explain the concept of roga pareeksha | CC | МК | КН | L&PP T | INT,TT- Theory | F&S | Ι | |
| CO1 | Enlist roga pareeksha | СК | МК | К | L&PP T | INT | F&S | Ι | |
| CO1 | Describe importance of roga pareeksha | CC | МК | КН | L&G D | T-OBT,DEB | F&S | Ι | |
| CO1 | Differentiate between rogi pareeksha and roga pareeksha | CC | МК | КН | L&G D | T-OBT,M- CHT | F&S | Ι | |
| Topic 3 3. Mo | ethods of Rogi pareeksha (Lecture :4 hours, Non lecture: 3 h | nours) | | | • | | | | |
| CO1,CO3,CO 7,CO8 | Describe Prashna Pareeksha, Chakshu indriyataha Pareeksha, Srotrendriyataha Pareeksha, Sparshanendriyataha Pareeksha, Ghranendriyataha Pareeksha, and Rasanendriyataha Pareeksha with its clinical interpretation | CC | МК | SH | L_VC | СОМ | F&S | I | |
| CO1,CO3 | Describe the importance, clinical interpretation and methods of eliciting Nadi Pareeksha | CAN | МК | КН | L&G D,D_ BED | СОМ | F&S | Ι | |
| CO1 | Describe the importance and clinical interpretation of Mutra Pareeksha | CC | МК | КН | L&G D | СОМ | F&S | Ι | |
| CO1 | Describe the methods of performing Tailabindu Pareeksha | CC | МК | КН | L_VC | WP,COM | F&S | Ι | |
| CO1,CO3 | Describe the importance & clinical interpretation of Mala Pareeksha, Jihwa Pareeksha, Shabda Pareeksha, Sparsha Pareeksha, Druk Pareeksha, Akriti Pareeksha | CAN | МК | КН | L&G D,SD L,D_ BED | СОМ | F&S | Ι | |

| Topic 4 4. Sa | peksha nidana - Vyavacchedaka nidana (Lecture :1 hours, N | Ion lect | ure: 0 hours) | | | | | | |
|---------------------|--|----------|---------------|----|------------------|-------------------|-----|---|--------------------------------------|
| CO1,CO2,CO 3,CO5 | Describe the steps of Vyavacchedaka nidana of Ukta Vyadhi and Anukta vyadhi with suitable examples (Ayurveda and contemporary science incorporating clinical findings and investigations) | CE | МК | КН | L&G D,CB L | T-OBT,M- CHT | F&S | Ι | V-KC ,V-SH ,V-SH L,V- SP |
| CO5 | Describe scope of developing screening, triage, confirmation, monitoring and prognostic tools in Ayurveda for Emerging diseases along with recent advancements | CC | DK | КН | L&PP T,IBL | INT | F&S | Ι | |
| Topic 5 5. Up | pashaya/ Anupashaya (Lecture :1 hours, Non lecture: 0 hours |) | | • | • | | | | • |
| CO1 | Define Upashaya and enlist synonyms of Upashaya | СК | МК | K | L&PP T | INT | F&S | Ι | |
| CO1 | Define Anupashaya and enlist synonyms of Anupashaya | СК | МК | K | L&PP T | INT,TT- Theory | F&S | I | |
| CO1 | Enumerate and explain the eighteen types of Upashaya with relevant examples | CC | МК | KH | L&PP T | WP,INT | F&S | Ι | |
| Topic 6 6. Do | osha Vikriti (Lecture : 3 hours, Non lecture: 2 hours) | | | | | | | | |
| CO1 | Define Hetu | СК | МК | K | L&PP T | INT,TT- Theory | F&S | Ι | |
| CO1 | Enlist and define synonyms of Hetu | СК | МК | K | L&PP T | QZ | F&S | Ι | |
| CO1 | Enumerate and enlist classification of Nidana (Vyadhi janaka and Vyadhi bodhaka) | СК | МК | К | L&PP T | M-CHT | F&S | Ι | |
| CO1 | Enumerate and describe types of Vyadhi Janaka Hetu | CC | МК | KH | L&PP | INT | F&S | Ι | |

| | | | | | T,RE C | | | | |
|---------|---|-------------|----|----|---------------------------|--------|-----|---|--|
| CO1,CO5 | Correlate Vyadhi Janaka Hetu with contemporary examples | CE | МК | KH | CBL, PrBL | CL-PR | F&S | Ι | |
| CO1 | Describe the Nidana of Agnidushti | CC | МК | КН | L&PP T,RE C | T-OBT | F&S | Ι | |
| CO1 | Enumerate and explain the types and features of Agnidushti | CC | МК | KH | L&PP T | INT | F&S | I | |
| CO1 | Correlate the Nidana of Agnidushti with contemporary examples | CE | МК | КН | L&G D | P-SUR | F&S | Ι | |
| CO3,CO8 | Perform assessment of Agnidushti in patient | PSY- GUD | МК | SH | D_BE D | P-PRF | F&S | Ι | |
| CO1 | Recite etiologies of Vata, Pitta and Kapha dushta karma | СК | МК | K | REC | P-REC | F&S | Ι | |
| CO1,CO5 | Apply the knowledge of aetiologies of Vata, Pitta and Kapha dushta karma in correlating with contemporary etiologies | САР | МК | КН | L&G D,PrB L,TP W | P-SUR | F&S | Ι | |
| CO1 | Recite dushta karma, kshaya and vriddhi lakshana of Vata, Pitta and Kapha Dosha | СК | МК | K | REC | P-REC | F&S | Ι | |
| CO1 | Explain Ashayapakarsha of Dosha with suitable examples | CC | МК | КН | L&G D | INT | F&S | I | |
| CO1 | Define Avarana | СК | МК | K | L&PP T | QZ | F&S | Ι | |
| CO1 | Enlist types of Avarana | СК | МК | K | L&PP | O-GAME | F&S | Ι | |

| | | | | | Т | | | | |
|-----------|--|------|----|----|-----------|--------|-----|---|---|
| CO1 | Enlist the 63 combination of Dosha | CC | МК | KH | L&PP T | O-GAME | F&S | I | |
| CO1 | Describe Samsargaja Dosha Dushti | CC | МК | КН | L&PP T | INT | F&S | Ι | |
| CO1 | Describe Sama Sannipata and Vishama Sannipata dosha | CC | МК | КН | L&PP T | INT | F&S | Ι | |
| CO1 | Enlist the different stages of Paridhavamana Dosha | СК | MK | К | L&PP T | INT | F&S | Ι | |
| CO1 | Explain Paridhavamana dosha with types and examples | CC | MK | КН | L&PP T | СОМ | F&S | Ι | |
| CO1 | Explain Nityasamshleshita (Leena) dosha and Paricchedita dosha with examples | CC | МК | КН | L&PP T | INT | F&S | Ι | |
| Topic 7 7 | . Doshagati and Rogamarga (Lecture :1 hours, Non lecture: 0 ho | urs) | • | • | • | | • | | - |
| CO1 | Enumerate and describe Doshagati and its utility in prognosis with relevant examples | CC | МК | КН | L&G D | INT | F&S | Ι | |
| CO1 | Describe Urdhwa gati, Adho gati, Tiryaga gati, Vriddhi, Kshaya, Sthana, Koshta, Shakha, Sandhi asthi marma with illustrations and examples | CC | МК | КН | L&G D | СОМ | F&S | Ι | |
| CO1 | Describe Koshta to Shakhagati of dosha and Shakha to Koshtagati of dosha with illustration | CC | МК | КН | L&G D | СОМ | F&S | Ι | |
| CO1 | Enumerate and describe Rogamarga and its utility in prognosis with relevant examples | CC | МК | KH | L&G D | O-QZ | F&S | Ι | |

| CO1 | Define and enlist Srotas | СК | МК | К | L&PP T | O-QZ | F&S | Ι | |
|------------|--|------|----|----|-------------------|-----------|-----|---|--|
| CO1 | Describe the common aetiology for Sroto dushti | CC | МК | КН | L&G D | INT | F&S | I | |
| CO1 | Explain features of Samanya Srotodushti with examples | CC | МК | КН | L&PP T | CL-PR | F&S | Ι | |
| Topic 9 9. | Concept of Ama (Lecture :2 hours, Non lecture: 0 hours) | 1 | 1 | | | 1 | | | |
| CO1 | Describe the different definitions of Ama | CC | МК | KH | L&PP T,RE C | P-REC,INT | F&S | Ι | |
| CO1 | Enlist different types of Ama | СК | МК | К | L&PP T | INT | F&S | Ι | |
| CO1 | Correlate the different types of Ama with the current science | CE | МК | КН | BS,IB L | СОМ | F&S | Ι | |
| CO1 | Describe samanya lakshana of Ama | CC | МК | КН | L&PP T | O-QZ | F&S | Ι | |
| CO1 | Explain the concept of Ama with reference to Anna rasa, Mala sanchaya and Dosha dushti | CC | МК | КН | L&PP T | T-OBT,COM | F&S | Ι | |
| Topic 10 | 10. Assessment of Ama (Lecture :0 hours, Non lecture: 1 hours) | • | | | • | • | • | | |
| CO1 | Explain concept of Sama | CC | МК | КН | L&PP T | INT | F&S | Ι | |
| CO1 | Describe specific features of Sama and Nirama Dosha and Pureesha | CC | МК | КН | L&PP T | O-GAME | F&S | I | |
| CO5 | Identify specific features of Sama dosha, Sama pureesha, Nirama | PSY- | МК | SH | L,D_ | P-PRF | F&S | Ι | |

| | dosha and Nirama pureesha in patient | GUD | | | BED | | | | |
|----------|---|----------|--------|----|-------------------|-----------|-----|---|---|
| Topic 11 | 11. Sthana samshraya – Poorvaroopa (Lecture :1 hours, Non le | cture: 0 | hours) | · | | • | • | | - |
| CO1 | Define Sthansamshraya | СК | МК | К | L&PP T | INT | F&S | Ι | |
| CO1 | Define Poorvaroopa and enlist its types | СК | МК | К | L&PP T | QZ | F&S | Ι | |
| CO1 | Describe the importance of Poorvaroopa | CC | МК | КН | L&G D | DEB | F&S | Ι | |
| CO1 | Relate Sthanasamshraya with Poorvaroopa | CAP | МК | КН | L&G D | INT | F&S | Ι | |
| Topic 12 | 12. Dushya dushti (Lecture :9 hours, Non lecture: 9 hours) | | | | | | | • | • |
| CO1 | Enlist Dushya | СК | МК | К | L&PP T | QZ | F&S | Ι | |
| CO1 | Describe specific features of Dhatu and Mala Vriddhi and Kshaya | CC | МК | КН | DIS | T-OBT | F&S | Ι | |
| CO1 | Describe the specific etiologies of Pranavaha Sroto dushti and identify contemporary etiologies | CS | МК | SH | L&G D,RE C | P-REC,INT | F&S | I | |
| CO1 | Describe features of Pranavaha Sroto Dushti in relation to Dosha Kopa | CC | МК | KH | L&PP T,RE C | P-REC,INT | F&S | Ι | |
| CO1 | Describe Pranavaha Sroto Viddha Lakshana | CC | МК | КН | L&PP T | QZ | F&S | Ι | |
| CO1 | Describe the specific etiologies of Udakavaha Sroto dushti and | CC | МК | КН | L&G | P-SUR | F&S | Ι | |

| | identify contemporary etiologies | | | | D,PrB L | | | | |
|-----|---|----|----|----|---------------------------|-----------|-----|---|--|
| CO1 | Describe features of Udakavaha Sroto Dushti in relation to Dosha Kopa | CC | МК | КН | L&PP T | INT | F&S | Ι | |
| CO1 | Describe Udakavaha Sroto Viddha Lakshana | CC | МК | КН | L&PP T | INT | F&S | Ι | |
| CO1 | Describe the specific etiologies of Annavaha Sroto dushti and identify contemporary etiologies | CC | МК | КН | L&G D,RE C | P-REC,INT | F&S | I | |
| CO1 | Describe features of Annavaha Sroto Dushti in relation to Dosha Kopa | CC | МК | КН | L&G D,RE C | P-REC,INT | F&S | I | |
| CO1 | Describe Annavaha Sroto Viddha Lakshana | CC | МК | КН | L&PP T | WP | F&S | Ι | |
| CO1 | Describe the specific etiologies of Rasavaha Sroto dushti and identify contemporary etiologies | СС | МК | КН | L&G D,PrB L,RE C | P-REC,INT | F&S | Ι | |
| CO1 | Describe features of Rasavaha Sroto Dushti in relation to Dosha Kopa | CC | МК | KH | L&PP T,RE C | P-REC,INT | F&S | I | |
| CO1 | Describe Rasavaha Sroto Viddha Lakshana | CC | МК | КН | L&PP T | QZ | F&S | I | |
| CO1 | Describe the specific etiologies of Raktavaha Sroto dushti and identify contemporary etiologies | CC | МК | КН | L&G D,PrB L,RE | P-REC,INT | F&S | I | |

| | | | | | C | | | | |
|-----|---|----|----|----|---------------------------|-------------|-----|---|--|
| CO1 | Describe features of Raktavaha Sroto Dushti in relation to Dosha Kopa | CC | МК | КН | L&G D,RE C | P-REC,INT | F&S | I | |
| CO1 | Describe Raktavaha Sroto Viddha Lakshana | CC | МК | КН | L&PP T | INT | F&S | Ι | |
| CO1 | Describe the specific etiologies of Mamsavaha Sroto dushti and identify contemporary etiologies | CC | МК | КН | L&G D,PrB L,RE C | P-REC,INT | F&S | I | |
| CO1 | Describe features of Mamsavaha Sroto Dusti in relation to Dosha Kopa | CC | МК | KH | L&G D,RE C | P-REC,INT | F&S | I | |
| CO1 | Describe Mamsavaha Sroto Viddha Lakshana | CC | МК | КН | L&PP T | QZ | F&S | Ι | |
| CO1 | Describe the specific etiologies of Medovaha Sroto dushti and identify contemporary etiologies | CC | МК | КН | L&G D,PrB L,RE C | P-REC,INT | F&S | I | |
| CO1 | Describe features of Medovaha Sroto Dushti in relation to Dosha Kopa | CC | МК | КН | L&G D,RE C | P-REC,INT | F&S | I | |
| CO1 | Describe Medovaha Sroto Viddha Lakshana | CC | МК | КН | L&PP T | QZ | F&S | Ι | |
| CO1 | Describe the specific etiologies of Asthivaha Sroto dushti and identify contemporary etiologies | CC | МК | КН | L&G D,PrB | P-REC,P-SUR | F&S | Ι | |

| | | | | | L,RE C | | | | |
|-----|--|----|----|----|---------------------------|-------------|-----|---|--|
| CO1 | Describe features of Asthivaha Sroto Dushti in relation to Dosha Kopa | CC | МК | КН | L&G D,RE C | P-REC,INT | F&S | Ι | |
| CO1 | Describe the specific etiologies of Majjavaha Sroto dushti and identify contemporary etiologies | CC | МК | КН | L&G D,PrB L,RE C | P-REC,INT | F&S | Ι | |
| CO1 | Describe features of Majjavaha Sroto Dushti in relation to Dosha Kopa | CC | МК | KH | L&G D,RE C | P-REC,INT | F&S | I | |
| CO1 | Describe the specific etiologies of Shukravaha Sroto dushti and identify contemporary etiologies | CC | МК | КН | L&G D,PrB L,RE C | P-REC,INT | F&S | I | |
| CO1 | Describe features of Shukravaha Sroto Dushti in relation to Dosha Kopa | CC | МК | КН | L&PP T,RE C | P-REC,INT | F&S | Ι | |
| CO1 | Describe Shukravaha Sroto Viddha Lakshana | CC | МК | КН | L&PP T | QZ | F&S | Ι | |
| CO1 | Describe the specific etiologies of Mutravaha Sroto dushti and identify contemporary etiologies | CC | МК | КН | L&G D,PrB L,RE C | P-REC,P-SUR | F&S | I | |
| CO1 | Describe features of Mutravaha Sroto Dushti in relation to Dosha Kopa | CC | МК | КН | L&G D,RE | P-REC,INT | F&S | Ι | |

| | | | | | C | | | | |
|-----|---|----|----|----|---------------------------|-------------|-----|---|--|
| CO1 | Describe Mutravaha Sroto Viddha Lakshana | CC | МК | КН | L&PP T | QZ | F&S | I | |
| CO1 | Describe the specific etiologies of Pureeshavaha Sroto dushti and identify contemporary etiologies | CC | МК | KH | L&G D,PrB L,RE C | P-REC,P-SUR | F&S | I | |
| CO1 | Describe features of Pureeshavaha Sroto Dushti in relation to Dosha Kopa | CC | МК | КН | L&G D,RE C | P-REC,INT | F&S | I | |
| CO1 | Describe Pureeshavaha Sroto Viddha Lakshana | CC | MK | КН | L&PP T | QZ | F&S | Ι | |
| CO1 | Describe the specific etiologies of Swedavaha Sroto dushti and identify contemporary etiologies | CC | МК | КН | L&G D,PrB L,RE C | P-REC,P-SUR | F&S | I | |
| CO1 | Describe features of Swedavaha Sroto Dushti in relation to Dosha Kopa | CC | МК | КН | L&G D,RE C | P-REC,INT | F&S | I | |
| CO1 | Describe the specific etiologies of Artavavaha Sroto dushti and identify contemporary etiologies | CC | МК | КН | L&G D,PrB L,RE C | P-REC,P-SUR | F&S | Ι | |
| CO1 | Describe features of Artavavaha Sroto Dushti in relation to Dosha Kopa | CC | МК | KH | L&PP T,RE C | P-REC,INT | F&S | I | |

| CO1 | Describe Artavavaha Sroto Viddha Lakshana | CC | МК | KH | L&PP | QZ | F&S | T | |
|----------|---|-------------|----|-----|-----------|------|------|---|---|
| COI | Describe Artavavana Sioto Viduna Laksilana | | | KII | T | | 1.00 | | |
| CO1 | Describe features of Upadhatu dushti, Mala dushti, Indriya dushti, and Manas dushti | CC | МК | KH | L&G D | INT | F&S | I | |
| CO1 | Describe features of Avayava dusti with relevant examples | CC | МК | КН | L&PP T | INT | F&S | I | |
| CO5 | Identify and interpret the specific Sroto Dushti in the patients | PSY- GUD | МК | SH | SDL | T-CS | F&S | I | |
| Topic 13 | 13. Samprapti (Lecture :1 hours, Non lecture: 0 hours) | · | | · | · | · | · | • | · |
| CO1 | Define Samprapti and enumerate synonyms | СК | МК | K | L&PP T | WP | F&S | I | |
| CO1 | Enlist and describe types of Samprapti with examples | СК | МК | K | L&PP T | INT | F&S | Ι | |
| CO1 | Describe Vyadhi Janma and Vyadhi Janya Samprapti with examples | CC | МК | KH | L&PP T | INT | F&S | Ι | |
| Topic 14 | 14. Rupa (Lecture :1 hours, Non lecture: 0 hours) | | 1 | Į | 1 | | | | 1 |
| CO1 | Define, enlist and describe different types of Roopa | CC | МК | KH | L&PP T | INT | F&S | Ι | |
| CO1 | Describe the importance of Roopa | CC | МК | КН | L&G D | DEB | F&S | Ι | |
| CO1 | Define Pratyatma Lakshana with suitable examples | СК | МК | K | L&PP T | INT | F&S | I | |
| CO1 | Differentiate between Vyadhi and Lakshana. | CC | МК | КН | L&G D | INT | F&S | I | |

| CO1 | Describe the basis of Vyadhi Namakarana with suitable examples | CK | МК | K | L | QZ | F&S | Ι | |
|-------------|---|-------------|----------|----|------------|-------|-----|---|------|
| CO6 | Describe the importance of ICD, DSM and NAMASTE (National AYUSH Morbidity and Standardized Terminologies Electronic Portal) portal classification and terminology of diseases | CC | DK | КН | L&G D,D | INT | F&S | Ι | |
| CO6 | Operate NAMASTE (National AYUSH Morbidity and Standardized Terminologies Electronic Portal) portal | PSY- GUD | DK | SH | D | P-PRF | F&S | Ι | |
| Topic 16 16 | 5. Vyadhi (Lecture :4 hours, Non lecture: 0 hours) | | • | | | • | | | |
| CO1 | Define & enlist synonyms of Vyadhi | СК | МК | K | L&PP T | INT | F&S | Ι | |
| CO1 | Enlist types of Vyadhi | СК | МК | K | L&PP T | INT | F&S | Ι | |
| CO1,CO2 | Explain Adibala/ Sahaja and Hereditary disorders, Janmabala/ Garbhaja and Congenital disorders, Dosha bala/ Jataja and Acquired disorders, Sanghatabala/ Peedaja and Traumatic disorders, Daivabala/ Prabhavaja and Iatrogenic disorders, Kalabala/ Kalaja and Environmental and Geriatric disorders, Swabhava bhava vyadhi with suitable examples | CC | МК | КН | L&PP T | CL-PR | F&S | I | |
| Topic 17 17 | Ashtanindita (Endocrine disorders) (Lecture :1 hours, Non 1 | lecture: | 0 hours) | | | | | • | |
| CO1 | Enlist and explain the Ashtanindita | CC | DK | КН | L&PP T | INT | F&S | Ι | |
| CO1 | Describe the importance of Ashtanindita | CC | DK | КН | L&G D | DEB | F&S | Ι | |
| CO1,CO2 | Correlate and describe the features of Hormonal/ Endocrinal | CE | DK | КН | L&G | СОМ | F&S | Ι | V-BL |

| | diseases (Pituitary disorders, Parathyroid disorders, Adrenal disorders etc.) with Ashtanindita | | | | D,TP W | | | | |
|----------|---|---------|-----------------|----------|-----------|-------|-----|---|-------------------|
| Topic 18 | 18. Janapadodhwamsa vikara (Pandemic disorders) (Lecture : | 1 hours | , Non lecture: | 0 hours) | | | • | | |
| CO1 | Describe sadharana and asadharana hetu for Janapadodhwamsa Vikara and correlate with contemporary etiologies | CC | DK | КН | L&G D | DEB | F&S | Ι | V-KC ,H- SW |
| Topic 19 | 19. Nidanarthakara Vyadhi, Vyadhisankara (Lecture :1 hours, | Non le | cture: 0 hours) |) | | | • | | _ |
| CO1 | Define and enlist types of Nidanarthakara Vyadhi with examples along with its concept | CC | DK | КН | L&G D | INT | F&S | Ι | |
| CO1 | Explain the concept of Vyadhi Sankara with specific Nidana and relevant examples | CC | DK | KH | L&PP T | INT | F&S | Ι | |
| Topic 20 | 20. Vyadhikshamatva (Lecture :2 hours, Non lecture: 0 hours) | | | • | • | | | | • |
| CO1 | Define Vyadhikshamatva | СК | МК | K | L&PP T | INT | F&S | Ι | |
| CO1 | Describe Trividha bala and relate to Balavruddhikara Bhava and Shareeravruddhikara Bhava | CC | МК | K | L&PP T | M-CHT | F&S | Ι | |
| CO1 | Describe Vikara Vighata Bhava and Abhava along with its relation to Vyadhikshamatva | CC | МК | КН | DIS | INT | F&S | Ι | |
| CO1 | Analyze Satmya in relation with health and disease | CAN | МК | КН | L&G D | INT | F&S | Ι | |
| CO1 | Define and explain Dwividha and Chaturvidha Ojas | СК | МК | К | L&PP T | INT | F&S | I | 1 |
| CO1 | Describe Dosha Paka features with examples | CC | МК | КН | L&PP T | INT | F&S | Ι | |

| CO2 | Describe pathophysiology of Healing with primary and secondary intention and Repair mechanism. | CC | МК | КН | L_VC | CL-PR | F&S | Ι | |
|--------------------|---|----|----|----|-----------|-------|-----|---|--|
| CO1 | Define Satmya and explain its types | CC | МК | КН | L&PP T | INT | F&S | Ι | |
| CO2 | Define Immunity and describe classification of Immunity | CC | МК | КН | SDL | CL-PR | F&S | Ι | |
| CO2 | Explain different mechanisms involved in Immunity | CC | МК | КН | SDL | CL-PR | F&S | Ι | |
| Topic 21 21 | . Rogi bala Pareeksha (Lecture :2 hours, Non lecture: 1 hours) |) | | • | | | | | |
| CO1 | Describe the importance of Rogi bala Pareeksha | CC | МК | КН | L&G D | DEB | F&S | Ι | |
| CO1,CO8 | Describe the parameters of Rogi bala Pareeksha - Prakruti, Sara, Samhanana, Pramana, Satmya, Satwa, Aahara shakti, Vyayama shakti, Vaya and other factors such as Aushadha kshama dehatva, Yuvajatva, Pumjatvam, Vishayanasakta indriyajatva, Padasampad bhavatvam, and Anukoola grahatva, etc. | CC | МК | КН | L&PP T | INT | F&S | I | |
| Topic 22 22 | 2. Dhatu Paka (Lecture :12 hours, Non lecture: 1 hours) | _ | | • | | | - | | |
| CO1 | Describe Dhatupaka features with examples | CC | МК | КН | L&PP T | INT | F&S | Ι | |
| CO1 | Describe different stages of Ojo dusti | СК | МК | К | L&PP T | INT | F&S | Ι | |
| CO2 | Define Asatmya | СК | МК | К | L&PP T | O-QZ | F&S | Ι | |
| CO2 | Define Hypersensitivity | СК | МК | К | L&PP T | QZ | F&S | Ι | |
| CO2 | Describe four types of Hypersensitivity with suitable examples | CC | МК | КН | L_VC | CL-PR | F&S | Ι | |

| CO2 | Define Autoimmunity | СК | MK | K | L&PP T | O-QZ | F&S | Ι |
|-----|---|----|----|----|--------------|-------|-----|---|
| CO2 | Describe mechanism and classification of Autoimmunity with suitable examples | CC | МК | KH | L_VC | CL-PR | F&S | Ι |
| CO2 | Define Immunodeficiency. | СК | МК | K | L&PP T | CL-PR | F&S | Ι |
| CO2 | Describe classification of Immunodeficiency with suitable examples. | CC | МК | KH | L&PP T | M-CHT | F&S | Ι |
| CO2 | Define Cell Injury | СК | МК | K | L&PP T | QZ | F&S | Ι |
| CO2 | Describe causes and mechanism of Reversible and Irreversible Cell Injury with microscopic and macroscopic features. | CC | МК | KH | L_VC | CL-PR | F&S | Ι |
| CO2 | Define Cellular Adaptation | СК | МК | K | L&PP T | QZ | F&S | Ι |
| CO2 | Describe types and mechanisms of Cellular Adaptations with suitable examples. | CC | МК | KH | L_VC | CL-PR | F&S | Ι |
| CO2 | Describe and discuss types of Cell Death (including apoptosis) and the mechanism with suitable examples. | CC | МК | KH | L_VC | CL-PR | F&S | Ι |
| CO2 | Define, classify and describe mechanism of Inflammation, Septicaemia, Oedema, Shock, Haemorrhage, Thrombosis, Embolism, Ischemia and Infarction | CC | МК | KH | L_VC | CL-PR | F&S | Ι |
| CO2 | Define and describe Tumors | CC | МК | KH | L&PP T | CL-PR | F&S | Ι |
| CO2 | Describe nomenclature of Tumors | CC | МК | KH | L&PP T,SD | CL-PR | F&S | I |

| | | | | | L | | | | |
|------------|---|----------|----------|----|-------------------|-------|-----|---|-------------------|
| CO2 | Differentiate Benign and Malignant Tumours | CC | МК | KH | L&G D | M-CHT | F&S | Ι | |
| CO2 | Describe mechanism of Metastasis | CC | МК | KH | L&PP T | CL-PR | F&S | Ι | |
| Topic 23 2 | 23. Infection and Nutritional disorders (Lecture :4 hours, Non | lecture: | 1 hours) | | - | | | | |
| CO2 | Define and classify Viruses, Bacteria, and Fungi | CC | DK | КН | L&PP T,SD L | СОМ | F&S | Ι | |
| CO2 | Describe components of Nutrition, and classify nutritional disorders | CC | DK | KH | PER | QZ | F&S | Ι | H-SW |
| CO2 | Describe Macro nutritional disorders, Water soluble vitamins deficiency disorders and Fat soluble vitamins deficiency disorders | CC | DK | КН | PER | QZ | F&S | Ι | V-KC ,H- SW |
| CO2 | Describe Protein Energy Malnutrition in adults and differentiate Kwashiorkor and Marasmus | CC | DK | KH | PER | QZ | F&S | Ι | V-KC ,V-BL |
| Topic 24 2 | 24. Upadrava (Lecture : 1 hours, Non lecture: 0 hours) | · | · | | · | • | | | |
| CO1 | Define and explain the concept and importance of Upadrava | CC | МК | KH | L&G D | DEB | F&S | Π | |
| Topic 25 2 | 25. Arishta (Lecture :1 hours, Non lecture: 0 hours) | | · | | | | • | | • |
| CO1 | Define Arishta and Ristaabhasa | CK | NK | K | L&PP T | INT | F&S | Π | |
| CO1 | Enumerate and describe types of Arishta with its importance | CC | NK | КН | L&G D | DEB | F&S | Π | |

| Topic 26 | 26. Vyadhi bala pareeksha (Lecture :1 hours, Non lecture: 0 hou | urs) | | | | | | | |
|----------|--|----------|-------------|---------------|-----------|---------------|-----|---|---|
| CO1 | Describe Vikrititaha Pareeksha with its importance | CC | DK | КН | L&G D | DEB | F&S | Π | |
| CO1 | Describe the parameters to be assessed for Vyadhi bala - Exposure to Nidana, Samprapti, Poorvaroopa, Roopa, Upadrava, Tulya dosha - dushyatvam, Atulya ritu, Number of dosha involved, Number of Rogamarga involved, Kala, Desha, Prakruti, Involvement of Marma and other factors | CC | DK | КН | L&G D | DEB | F&S | Π | |
| Topic 27 | 27. Sadhyasadhyatva – Prognosis (Lecture :1 hours, Non lecture | : 0 hour | rs) | | | | | • | • |
| CO1 | Enumerate and describe the features of sadhyasadhyatva | CC | МК | КН | L&PP T | INT | F&S | Π | |
| CO1 | Analyse the components of Vyadhi from Sadhyasadhyatva | CAN | МК | КН | L&G D | INT | F&S | Π | |
| Topic 28 | 28. Digital health and Artificial intelligence in the context of Ro | oganida | na (Lecture | e :1 hours,] | Non lect | ure: 1 hours) |) | | |
| CO6 | Define and describe the scope of Digital health and Artificial intelligence in Ayurveda Diagnosis and Prognosis | CC | NK | КН | BL | СОМ | F&S | Π | |
| CO6 | Explain need of Instrumentation and Biosensors for diagnosis and prognosis in Ayurveda. | CC | NK | КН | BL | INT | F&S | Π | |
| CO6 | Justify scope of Diagnostic tool development in Ayurveda and their implementation. | CE | NK | KH | BL | INT | F&S | Π | |

| Paper 2 Vyadhi Vigyan, contemporary understanding and updates | | | | | | | | | | | |
|---|---|------|--------------|-------|-----|------------|------|------|--------|--|--|
| A3 | B3 | C3 | D3 | E3 | F3 | G3 | H3 | I3 | J3 | | |
| Course | Learning Objective (At the end of the session, the students | Doma | Must to know | Level | T-L | Assessment | Form | Term | Integr | | |

| outcome | should be able to) | in/sub | / desirable to know / Nice to know | Does/ Show s how/ Know s how/ Know | meth od | (Refer abbreviations) | ative/ summ ative | | ation |
|---------------------|---|----------|--|---|------------|--------------------------|-------------------------|----|----------|
| Topic 1 1. A | gnimandya – Ajeerna, Anaha, Adhmana, Atopa (Lecture :1 | hours, N | Ion lecture: 0 ho | ours) | | | | | |
| CO1 | Define Anaha | СК | MK | K | L&PP T | QZ | F&S | II | |
| CO1 | Enlist types of Anaha | СК | MK | K | L&PP T | QZ | F&S | II | |
| CO1,CO5 | Describe Adhmana and Atopa | CC | МК | КН | L&PP T | INT | F&S | II | |
| Topic 2 2. C | hhardi (Lecture :1 hours, Non lecture: 0 hours) | | | | | | • | • | |
| CO1 | Define Chhardi | СК | DK | K | L&PP T | QZ | F&S | II | |
| CO1 | Describe hetu and samprapti of Chhardi. | CC | DK | КН | L&G D | INT | F&S | II | |
| CO1 | Enlist bheda of Chhardi | СК | DK | K | L&PP T | QZ | F&S | II | |
| CO1 | Describe purvaroopa, samanya lakshana, vishishta lakshana, upadrava and sadhya asadhyata of Chhardi | CC | DK | КН | L&PP T | INT | F&S | II | |
| Topic 3 3. A | mlapitta (Lecture :2 hours, Non lecture: 0 hours) | 1 | | 1 | | 1 | | 1 | <u> </u> |

| | 1 | - | | _ | | | | |
|--------------|--|----|----|----|--------------|-------|-----|-----|
| CO1 | Define Amlapitta | СК | МК | К | L&PP T | QZ | F&S | п |
| CO1 | Describe hetu and samprapti of Amlapitta | CC | МК | КН | L&G D | M-CHT | F&S | II |
| CO1 | Enlist bheda of Amlapitta | СК | МК | К | L&PP T | QZ | F&S | II |
| CO1 | Describe purvaroopa, samanya lakshana, vishishta lakshana, and sadhya asadhyata of Amlapitta | CC | МК | КН | L&PP T | INT | F&S | II |
| Topic 4 4. S | hoola (Lecture :1 hours, Non lecture: 0 hours) | | | • | • | 1 | | 1 1 |
| CO1 | Define Shoola | СК | МК | К | L&PP T | QZ | F&S | II |
| CO1 | Enlist Shoola bheda | СК | МК | К | L&PP T | QZ | F&S | II |
| CO1,CO5 | Describe and differentiate Parinama shoola and Annadrava shoola | CC | МК | КН | L&PP T | INT | F&S | II |
| Topic 5 5. A | tisara, and Pravahika (Lecture :3 hours, Non lecture: 1 hours) |) | 1 | 1 | 1 | ł | | 1 1 |
| CO1 | Describe pratyatma lakshana of Atisara | CC | МК | KH | L&PP T | QZ | F&S | II |
| CO1 | Describe hetu and samprapti of Atisara | CC | МК | КН | L&G D | INT | F&S | II |
| CO1 | Enlist bheda of Atisara | СК | МК | КН | L&PP T | QZ | F&S | П |
| CO1 | Describe purvaroopa of Atisara | CC | МК | КН | L&PP T,CB | INT | F&S | Π |

| | | | | | L | | | | |
|-----------|--|----|----|----|-------------------|----------|-----|----|----------|
| CO1 | Enlist and describe upadrava of Atisara | СК | MK | К | L&PP T | INT | F&S | II | |
| CO1 | Describe sadhya asadhyata of Atisara | CC | МК | КН | L&PP T | T-CS,INT | F&S | II | |
| CO1 | Describe nivrutta Atisara lakshana or vigata Atisara lakshana | CC | МК | KH | L&PP T | INT | F&S | Π | |
| CO1 | Describe samprapti of Pravahika | CC | МК | KH | L&G D | M-CHT | F&S | Π | |
| CO1 | Enlist bheda of Pravahika | СК | МК | KH | L&PP T | QZ | F&S | Π | |
| CO1 | Describe samanya and vishishta lakshana of Pravahika | CC | МК | КН | L&PP T,CB L | T-CS | F&S | Π | |
| CO1 | Differentiate between Atisara and Pravahika | CC | МК | КН | L&G D,PB L | CL-PR | F&S | Π | |
| CO1 | Differentiate Doshaja Atisara | CC | МК | КН | L&G D,PB L | CL-PR | F&S | п | |
| CO1 | Explain Bhayaja atisara, Shokaja atisara and Raktaja atisara lakshana | CC | МК | КН | L&G D,PB L | CL-PR | F&S | п | |
| Topic 6 6 | 6. Grahani (Lecture : 2 hours, Non lecture: 1 hours) | I | 1 | 1 | • | | | | <u> </u> |
| CO1 | Describe pratyatma lakshana of Grahani | CC | МК | KH | L&PP | PUZ | F&S | II | |

| | | | | | Т | | | | |
|-----------|--|---------|----|----|-------------------|------------|-----|----|--|
| CO1 | Describe hetu and samprapti of Grahani | CC | МК | КН | L&G D | M-CHT | F&S | II | |
| CO1 | Enlist bheda of Grahani | СК | МК | КН | L&PP T | QZ | F&S | II | |
| CO1 | Describe purvaroopa, and samanya lakshana of Grahani | CC | МК | КН | L&PP T | T-CS,INT | F&S | II | |
| CO1 | Explain Sangraha grahani and Ghati yantra grahani | CC | МК | КН | L&PP T,CB L | INT | F&S | II | |
| CO1 | Explain sadhya asadhyata of Grahani | CC | МК | КН | L&PP T | T-CS,INT | F&S | II | |
| CO1 | Differentiate Atisara and Grahani Roga | CC | МК | КН | L&G D,PB L | T-CS | F&S | II | |
| CO1 | Differentiate Grahani dosha and Grahani roga | CC | МК | КН | L&G D,PB L | T-CS,CL-PR | F&S | II | |
| CO1 | Differentiate Doshaja Grahani | CC | МК | КН | L&G D,PB L | CL-PR | F&S | II | |
| Topic 7 7 | V. Visuchika, Alasaka, Vilambika (Lecture :1 hours, Non lecture: | 0 hours |) | - | | 1 | - | | |
| CO1 | Define Visuchika | СК | МК | K | L&PP T | QZ | F&S | Π | |
| CO1 | Describe lakshana, upadrava, and sadhyasadhyata of Visuchika, | CC | МК | КН | L&PP | INT | F&S | II | |

| | Alasaka and Vilambika | | | | Т | | | | |
|--------------|---|-------------|----|----|----------------------|------|-----|----|--|
| Topic 8 8. (| Common GIT diseases (Lecture :1 hours, Non lecture: 4 hours) | • | | • | | | | | |
| CO2 | Describe the clinical features of Ulcerative dyspepsia and Non- ulcerative dyspepsia, Irritable Bowel Syndrome, and Inflammatory Bowel Diseases | CC | DK | КН | RP,T UT | INT | F&S | II | |
| CO3 | Perform relevant clinical examination of Ulcerative dyspepsia and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, and Inflammatory Bowel Diseases | PSY- GUD | DK | SH | L_VC | OSCE | F&S | Π | |
| CO4 | Order and interpret relevant investigations of Ulcerative dyspepsia and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, and Inflammatory Bowel Diseases | CAP | DK | SH | L&G D,LRI ,D_L | T-CS | F&S | Π | |
| Topic 9 9. N | Mutrakrichhra (Lecture : 2 hours, Non lecture: 1 hours) | • | | • | • | | | | |
| CO1 | Explain pratyatma lakshana of Mutrakrichhra | CC | МК | КН | L&PP T | PUZ | F&S | Π | |
| CO1 | Describe hetu and samprapti of Mutrakrichhra | CC | МК | КН | L&G D | INT | F&S | II | |
| CO1 | Enlist bheda of Mutrakrichhra | СК | МК | КН | L&PP T | QZ | F&S | II | |
| CO1,CO5 | Describe vishishta lakshana of Mutrakrichhra | CC | МК | КН | L&PP T,CB L | INT | F&S | II | |
| Topic 10 10 | . Mutraghata (Lecture : 3 hours, Non lecture: 1 hours) | - | | | | | | | |
| CO1 | Define Mutraghata | СК | МК | К | L&PP T | QZ | F&S | Π | |
| | | _ | | | · | | · | | |

| CO1 | Enlist conditions of Mutra shoshana and Mutra pratihanyate among different types of Mutraghata | СК | МК | К | L&G D | INT | F&S | II | |
|----------|--|-------------|----|----|-------------------|------|-----|----|---|
| CO1 | Describe different types of Mutraghata | CC | МК | КН | L&PP T,PB L | INT | F&S | II | |
| CO1 | Differentiate Mutrakrichra and Mutraghata | CC | МК | КН | L&G D,PB L | T-CS | F&S | II | |
| Topic 11 | 11. Common Urinary diseases (Lecture :1 hours, Non lecture: 6 l | nours) | 1 | | | | | | |
| CO2 | Describe the clinical features of Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury and Chronic Kidney Disease | CC | DK | КН | L&G D,RP | T-CS | F&S | II | |
| CO3 | Perform relevant clinical examination of Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury and Chronic Kidney Disease | PSY- GUD | DK | SH | L_VC | T-CS | F&S | II | |
| CO4 | Order and interpret relevant investigations of Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury and Chronic Kidney Disease | САР | DK | SH | L&G D,LRI | T-CS | F&S | II | |
| Topic 12 | 12. Hikka (Lecture :1 hours, Non lecture: 0 hours) | ! | 1 | | 1 | | | | |
| CO1 | Describe pratyatma lakshana, hetu, and samprapti of Hikka | CC | NK | КН | L&PP T | PUZ | F&S | II | |
| CO1 | Describe cardinal features of Pancha Hikka | CC | NK | КН | L&PP T | INT | F&S | II | |
| Topic 13 | 13. Shwasa (Lecture : 2 hours, Non lecture: 1 hours) | | | | | | | - | - |
| | | | | | | | | | |

| CO1 | Define Shwasa | СК | МК | K | L&PP T | QZ | F&S | II | |
|----------|--|-----|----|----|-----------|-----------|-----|----|--|
| CO1 | Describe hetu and samanya samprapti of Shwasa | CC | МК | КН | L&G D | T-CS | F&S | II | |
| CO1 | Enlist bheda of Shwasa | СК | МК | K | L&PP T | P-VIVA,QZ | F&S | II | |
| CO1 | Describe purvaroopa, and sadhya asadhyata of Shwasa | CC | МК | KH | L&PP T | T-CS | F&S | II | |
| CO1 | Describe vishishta lakshana of Tamaka shwasa with its avastha bheda | CC | МК | KH | L&PP T | T-CS | F&S | II | |
| CO1 | Describe dosha predominance in Shwasa | CC | МК | KH | DIS | INT | F&S | II | |
| CO1 | Identify cardinal features of Pancha shwasa and correlate with the current science | CAN | МК | KH | L&PP T | INT | F&S | II | |
| CO1 | Differentiate Pancha shwasa | CC | МК | KH | PBL | CL-PR | F&S | II | |
| Topic 14 | 14. Kasa (Lecture :2 hours, Non lecture: 0 hours) | | | | | • | | • | |
| CO1 | Define Kasa | СК | МК | K | L&PP T | QZ | F&S | II | |
| CO1 | Describe hetu and samprapti of Kasa | CC | МК | КН | L&G D | INT | F&S | II | |
| CO1 | Enlist bheda of Kasa | СК | МК | K | L&PP T | QZ | F&S | II | |
| CO1 | Describe purvaroopa and sadhya asadhyata of Kasa | CC | МК | КН | L&PP T | T-CS | F&S | II | |
| CO1 | Describe the differential diagnosis of Kasa based on kapha | CC | МК | KH | L&PP | T-CS | F&S | II | |

| | lakshana | | | | Т | | | |
|----------|---|-------------|----|----|-----------------------|-------|-----|----|
| CO1 | Describe the differential diagnosis of Kshayaja kasa and Rajayakshma | CC | МК | КН | L&G D | T-CS | F&S | II |
| CO1 | Describe the differential diagnosis of Kshataja kasa and kshata ksheena | CC | МК | КН | L&G D | T-CS | F&S | II |
| CO1 | Differentiate Doshaja kasa | CC | MK | КН | DIS | INT | F&S | П |
| Topic 15 | 15. Rajayakshma & Shosha (Lecture :3 hours, Non lecture: 0 hours) | urs) | | | | | | |
| CO1 | Describe Rajayakshma vyadhi swabhava | CC | DK | КН | L&PP T | INT | F&S | II |
| CO1 | Describe hetu and samprapti of Rajayakshma | CC | DK | КН | L&G D | M-CHT | F&S | II |
| CO1 | Enlist bheda of Rajayakshma | СК | DK | K | L&PP T | QZ | F&S | II |
| CO1 | Explain tri roopa, shad roopa, ekadasha roopa, and sadhyasadhyata of Rajayakshma | CC | DK | КН | L&PP T | INT | F&S | II |
| CO1 | Classify and describe Ashta shosha | CC | DK | КН | L&PP T | INT | F&S | II |
| Topic 16 | 16. Common lung disorders (Lecture :1 hours, Non lecture: 4 ho | ours) | • | | | • | 1 | • |
| CO2 | Describe the clinical features of Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, and Bronchiectasis | CC | DK | КН | L_VC ,RP,D _BED | INT | F&S | II |
| CO3 | Perform relevant clinical examination of Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, and Bronchiectasis | PSY- GUD | DK | SH | L_VC | OSCE | F&S | II |

| CO4 | Order and interpret relevant investigations of Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, and Bronchiectasis | CAP | DK | КН | XRay, LRI | T-CS | F&S | Π | |
|----------|---|-----|----|----|--------------|---------|-----|----------|--|
| Topic 17 | 17. Jwara (Lecture :4 hours, Non lecture: 1 hours) | • | • | • | • | • | | <u> </u> | |
| CO1 | Define and enlist types of Jwara based on vidhi samprapti | СК | МК | K | L&PP T | QZ | F&S | II | |
| CO1 | Describe nidana, samprapti, samanya poorvaroopa, vishishta poorvaroopa, pratyatma lakshana and samprapti of Doshaja jwara | CC | МК | КН | L&G D | PUZ,INT | F&S | Π | |
| CO1 | Describe Doshaja jwara along with sannipataja jwara according to Charaka | CC | МК | КН | L&G D | PUZ,INT | F&S | Π | |
| CO1 | Describe Abhishanga jwara, Vishama jwara, and Punaravartaka jwara | CC | МК | KH | L&PP T | T-CS | F&S | II | |
| CO1 | Explain Antarvega, Bhahirvega jwara, Vata balasaka and Pralepaka jwara | CC | МК | КН | L&PP T | INT | F&S | Π | |
| CO1 | Differentiate Ama, Pachyamana and Nirama jwara lakshana | CC | МК | КН | L&G D | CL-PR | F&S | Π | |
| CO1 | Analyze Agantu and Doshaja jawara with reference to Jwara samprapti | CAN | МК | КН | DIS | INT | F&S | Π | |
| CO1 | Describe sadhyasadhyata of Jwara | CC | МК | КН | L&PP T | INT | F&S | Π | |
| CO1 | Enlist Jwara mukta lakshana | СК | МК | К | L&PP T | QZ | F&S | Π | |
| Topic 18 | 18. Masurika – Romantika (Lecture :1 hours, Non lecture: 0 hou | rs) | 1 | I | 1 | 1 | I | 1 | |
| CO1 | Enlist nidana of Masurika | СК | NK | K | L&PP | QZ | F&S | II | |

| | | | | | Т | | | | |
|----------|---|----|----|----|-------------|--------|-----|----|--|
| CO1 | Describe samprapti of Masurika | CC | NK | KH | L&G D | INT | F&S | II | |
| CO1 | Enlist bheda of Masurika | CC | NK | KH | L&PP T | QZ | F&S | II | |
| CO1 | Explain the avasthika lakshana of Masurika | CC | NK | KH | L&PP T | INT | F&S | II | |
| CO1 | Enlist features of Romantika | СК | NK | K | L&PP T | QZ | F&S | П | |
| Topic 19 | 19. Fever (Lecture :1 hours, Non lecture: 6 hours) | | | | | 1 | | | |
| CO2 | Describe the organism, incubation period, and mode of transmission of Measles virus, Varicella-zoster virus and Herpes zoster, Coxsackie virus, Rubella virus, various Malaria parasites, Influenza virus, Dengue virus, Leptospira, Chikungunya virus, Salmonella and causative agents of other common regional disorders presenting with fever | CC | DK | КН | L_VC ,FC | WP,INT | F&S | П | |
| CO2 | Describe the clinical features of Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, and Typhoid | СС | DK | КН | L_VC ,RP | T-CS | F&S | II | |
| CO2 | Describe the common regional disorders presenting with fever | CC | DK | KH | L&G D | T-CS | F&S | II | |
| CO2 | Describe the complications of Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, Typhoid, and other common regional disorders presenting with fever | СС | DK | КН | TUT | INT | F&S | П | |

| CO3 | Perform relevant clinical examination related to Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, Typhoid, and other common regional disorders presenting with fever | PSY- GUD | DK | SH | L_VC | OSCE | F&S | П | |
|----------|---|-------------|----|----|-----------|------|-----|----|--|
| CO4 | Order and interpret relevant investigations related to Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, Typhoid, and other common regional disorders presenting with fever | САР | DK | SH | LRI | T-CS | F&S | Π | |
| Topic 20 | 20. Pandu (Lecture : 2 hours, Non lecture: 0 hours) | | | | | | | | |
| CO1 | Describe pratyatma lakshana of Pandu | CC | МК | КН | L&PP T | PUZ | F&S | II | |
| CO1 | Describe hetu and samprapti of Pandu | CC | МК | КН | L&PP T | INT | F&S | II | |
| CO1 | Enlist bheda of Pandu | CC | МК | КН | L&PP T | QZ | F&S | II | |
| CO1 | Describe purvaroopa of Pandu | CC | МК | КН | L&PP T | INT | F&S | II | |
| CO1 | Enlist upadrava of Pandu | СК | МК | К | L&PP T | QZ | F&S | II | |
| CO1 | Describe sadhya asadhyata of Pandu | CC | МК | КН | L&PP T | INT | F&S | II | |
| CO1 | Explain Pancha pandu | CC | МК | КН | L&PP T | T-CS | F&S | Π | |

| CO1 | Differentiate Doshaja pandu | CC | MK | KH | L&G D | CL-PR | F&S | Π | |
|----------|--|-----|----|----------|------------------|-------|-----|----|---|
| Topic 21 | 21. Raktapitta (Lecture :1 hours, Non lecture: 1 hours) | I | | I | | • | I | | - |
| CO1 | Define Raktapitta and mention the rakta pravrutti marga | СК | МК | К | L&PP T | QZ | F&S | II | |
| CO1 | Explain the swabhava of Raktapitta | CC | MK | KH | DIS | INT | F&S | II | |
| CO1 | Enlist bheda of Raktapitta | СК | МК | KH | L&PP T | QZ | F&S | II | |
| CO1 | Describe nidana, samprapti, purvaroopa, vishishta lakshana of Raktapitta | CC | МК | KH | L&G D | T-CS | F&S | II | |
| CO1 | Enlist upadrava of Raktapitta | СК | МК | KH | L&PP T | PUZ | F&S | II | |
| CO1 | Describe sadhya asadhyata of Raktapitta | CC | МК | КН | DIS | INT | F&S | Π | |
| Topic 22 | 22. Hematopoietic diseases (Lecture :1 hours, Non lecture: 6 hour | s) | | | | • | | | |
| CO2 | Describe the clinical features of anaemia, nutritional anaemia, thalassemia, sickle cell anaemia, leukaemia, and thrombocytopenia | CC | DK | КН | L_VC ,RP | WP | F&S | Π | |
| CO4 | Order and interpret relevant investigations of anaemia, nutritional anaemia, thalassemia, sickle cell anaemia, leukaemia, and thrombocytopenia | CAP | DK | КН | L&G D,LRI | T-CS | F&S | Π | |
| CO2 | Describe the differential diagnosis of anaemia, nutritional anaemia, thalassemia, sickle cell anaemia, leukaemia, and thrombocytopenia | CC | DK | КН | L&G D,PB L | PRN | F&S | Π | |

| | | - | | | | | | | - |
|----------|--|--------|----|----|-------------|--------|-----|----|------|
| CO1 | Describe hetu and samprapti of Hridroga | CC | DK | KH | L&G D | QZ | F&S | Π | |
| CO1 | Enlist bheda of Hridroga | СК | DK | КН | L&PP T | PUZ | F&S | II | |
| CO1 | Analyze samanya lakshana of Hridroga | CAN | DK | КН | DIS | T-CS | F&S | II | |
| CO1 | Describe vishishta lakshana of Hridroga | CC | DK | КН | L&PP T | INT | F&S | П | |
| CO1 | Enlist upadrava of Hridroga | СК | DK | КН | L&PP T | WP | F&S | II | |
| Topic 24 | 24. Shotha (Lecture : 2 hours, Non lecture: 0 hours) | | | | | • | • | | • |
| CO1 | Describe hetu of Shotha | CC | МК | KH | L&G D | O-QZ | F&S | Π | |
| CO1 | Enlist bheda of Shotha | СК | МК | КН | L&PP T | O-QZ | F&S | II | |
| CO1 | Describe vidhi samprapti of shotha | CC | MK | КН | DIS | O-GAME | F&S | II | |
| CO1 | Describe purvaroopa, vishishta lakshana, samprapti and sadhya asadhyata of Nija shotha | CC | МК | КН | L&G D | INT | F&S | II | |
| CO1 | Differentiate Doshaja shotha | CC | МК | КН | L&G D | INT | F&S | II | |
| Topic 25 | 25. Cardiovascular disorders (Lecture :1 hours, Non lecture: 5 h | nours) | | | | • | | | |
| CO2 | Describe the clinical features of Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure | CC | DK | КН | L_VC ,RP | C-VC | F&S | II | V-KC |
| | | | | | | | | | |

| CO3 | Perform relevant clinical examination of Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure | PSY- GUD | DK | SH | L_VC ,SIM | OSCE | F&S | I |
|--------------------|---|-------------|----|----|--------------|-------|-----|-----|
| CO4 | Order and interpret relevant investigations of Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure | CAP | DK | КН | L&G D,LRI | O-QZ | F&S | П |
| Topic 26 26 | 5. Kamala (Lecture : 2 hours, Non lecture: 0 hours) | • | | | | | • | • • |
| CO1 | Define Kamala | СК | МК | K | L&PP T | QZ | F&S | II |
| CO1 | Describe hetu and samprapti of Kamala | CC | МК | КН | L&G D | INT | F&S | II |
| CO1 | Classify Kamala on the basis of vidhi samprapti of Kamala | CC | МК | КН | L&PP T | INT | F&S | II |
| CO1 | Differentiate Koshta shakhashrita and Shakhashrita Kamala | CC | MK | КН | DIS | PRN | F&S | II |
| CO1 | Enlist upadrava of Kamala | СК | МК | КН | L&PP T | QZ | F&S | II |
| CO1 | Describe sadhya asadhyata of Kamala | CC | МК | KH | TUT | M-CHT | F&S | II |
| CO1,CO5 | Describe Swatantra-Paratantra Kamala, Alpapitta-Bahupitta Kamala | CC | МК | КН | L&PP T | INT | F&S | II |
| Topic 27 27 | Udara Roga (Lecture : 2 hours, Non lecture: 1 hours) | | | · | | | • | |
| CO1 | Explain pratyatma lakshana of Udara | CC | МК | КН | L&PP T | PUZ | F&S | II |
| CO1 | Describe hetu and samprapti of Udara | CC | МК | КН | L&G D | WP | F&S | II |

| CO1 | Enlist bheda of Udara | СК | МК | K | L&PP | QZ | F&S | II | |
|--------------------|--|-------------|-----------------|---------|--------------------|-----------------|------|-----|--|
| 001 | | CK | | K | T | | 1 as | | |
| CO1,CO5 | Describe purvaroopa, samanya lakshana and sadhya asadhyata of Udara | CC | МК | КН | L&PP T | T-CS | F&S | II | |
| CO1 | Explain avastha bheda of Udara | CC | МК | КН | DIS | PRN | F&S | II | |
| C01,C05 | Differentiate Doshaja udara | CC | МК | КН | L&G D | M-CHT | F&S | II | |
| C01,C05 | Explain Vishishta lakshana of Baddha gudodara, Pleehodara, Jalodara and Chidrodara | CC | МК | КН | L&PP T | M-CHT | F&S | II | |
| Topic 28 28 | . Hepatobiliary diseases (Lecture :1 hours, Non lecture: 2 hour | s) | | | • | | | | |
| CO2,CO5 | Describe the clinical features of Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Disease, Hepatitis, Jaundice and Ascites | CC | DK | КН | L_VC ,RP | C-VC | F&S | II | |
| CO3 | Perform relevant clinical examination of Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Disease, Hepatitis, Jaundice and Ascites | PSY- GUD | DK | SH | L_VC ,D_B ED | OSCE | F&S | II | |
| CO4 | Order and interpret relevant investigations of Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Disease, Hepatitis, Jaundice and Ascites | CAP | DK | SH | L&G D,LRI | PRN | F&S | II | |
| CO2,CO5 | Describe the differential diagnosis of Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Disease, Hepatitis, Jaundice and Ascites | CC | DK | КН | L&G D,PB L | M-CHT | F&S | II | |
| Topic 29 29 | . Kushtha - Maha Kushtha & Kshudra Kushtha (According 1 | to Char | aka) (Lecture : | 3 hours | , Non lee | cture: 1 hours) | | | |
| CO1 | Define Kushtha | СК | МК | К | L&PP T | O-QZ | F&S | III | |

| CO1 | Describe hetu and samprapti of Kushtha | CC | МК | KH | L&G D | СОМ | F&S | III |
|-------------|--|----|----|----|--------------|--------|-----|-----------|
| CO1 | Enlist bheda of Maha Kushtha & Kshudra Kushtha | СК | МК | K | L&PP T | O-QZ | F&S | III |
| CO1 | Describe purvaroopa of Kushtha | CC | МК | КН | L&G D | INT | F&S | ш |
| CO1,CO5 | Describe vishishta lakshana of Maha Kushtha & Kshudra Kushtha | CC | МК | КН | L&PP T,CD | O-GAME | F&S | Ш |
| CO1,CO5 | Describe dosha anusara Kushtha lakshana | CC | МК | KH | L&G D | M-POS | F&S | III |
| CO1 | Describe sadhya asadhyata of Maha Kushtha & Kshudra Kushtha | CC | МК | КН | L&PP T | O-QZ | F&S | III |
| CO1,CO5 | Differentiate Maha kushtha & Kshudra kushtha | CC | МК | KH | DIS | CL-PR | F&S | III |
| Topic 30 30 | . Sheetapitta (Lecture :1 hours, Non lecture: 0 hours) | • | | | | • | - | |
| CO1 | Describe Sheetapitta samprapti | CC | МК | KH | L&PP T | M-CHT | F&S | III |
| CO1,CO5 | Describe Sheetapitta and Udarda lakshana | CC | МК | KH | L&PP T | QZ | F&S | III |
| CO1 | Describe Kotha lakshana | CC | МК | KH | L&PP T | QZ | F&S | III |
| CO1,CO5 | Differentiate Sheetapitta and Udarda | CC | МК | КН | DIS | QZ | F&S | III |
| Topic 31 31 | . Shwitra (Lecture :1 hours, Non lecture: 0 hours) | I | | | | | | · · · · · |
| CO1 | Enlist types of Shwitra | CK | МК | K | L&PP | 0-QZ | F&S | III |

| | | | | | T | | | | |
|-------------|--|-------------|----|----|--------------------|-------|-----|-----|--|
| C01,C05 | Describe lakshana and sadhya asadhyata of Shwitra | CC | МК | KH | L&PP T | INT | F&S | III | |
| Topic 32 32 | . Visarpa (Lecture :2 hours, Non lecture: 0 hours) | | | | • | | l | | |
| CO1 | Define Visarpa | СК | МК | K | L&PP T | O-QZ | F&S | III | |
| CO1 | Describe hetu and samprapti of Visarpa | CC | МК | KH | L&G D | M-CHT | F&S | III | |
| CO1 | Enlist bheda of Visarpa | СК | МК | K | L&PP T | QZ | F&S | III | |
| CO1,CO5 | Describe purvaroopa of visarpa, features of Bahya and Abhyantara visarpa and sadhya asadhyata of Visarpa | CC | МК | КН | L&PP T | PRN | F&S | III | |
| CO1,CO5 | Differentiate Doshaja Visarpa | CC | МК | KH | DIS | INT | F&S | III | |
| CO1,CO5 | Explain Agni, Kardama and Granthi visarpa | CC | МК | KH | L&PP T | T-CS | F&S | III | |
| Topic 33 33 | . Skin diseases (Lecture :1 hours, Non lecture: 6 hours) | 1 | 1 | | 1 | 1 | | 1 1 | |
| CO2,CO5 | Describe the clinical features of Allergic disorders - Eczema, Urticaria; Squamous lesions - Psoriasis, Lichen planus; Bullous lesion – Pemphigus and Pemphigoid; Mycotic skin diseases; Leprosy; Vitiligo; Cellulitis | CC | DK | КН | L_VC | C-VC | F&S | III | |
| CO3 | Perform relevant clinical examination of Allergic disorders - Eczema, Urticaria; Squamous lesions - Psoriasis, Lichen planus; Bullous lesion – Pemphigus and Pemphigoid; Mycotic skin diseases; Leprosy; Vitiligo; Cellulitis | PSY- GUD | DK | SH | L_VC ,D_B ED | OSCE | F&S | III | |

| CO4 | Order and interpret relevant investigations of Allergic disorders - Eczema, Urticaria; Squamous lesions - Psoriasis, Lichen planus; Bullous lesion – Pemphigus and Pemphigoid; Mycotic skin diseases; Leprosy; Vitiligo; Cellulitis | САР | DK | SH | L&G D,LRI | INT | F&S | III | |
|--------------------|--|-------------|----|----|--------------------|-------|-----|-----|--|
| Topic 34 34 | 4. Galaganda (Lecture : 1 hours, Non lecture: 0 hours) | | | | | | | | |
| CO1 | Describe pratyatma lakshana and samprapti of Galaganda | CC | NK | KH | L&PP T | PUZ | F&S | III | |
| Topic 35 35 | 5. Thyroid disorders (Lecture :1 hours, Non lecture: 1 hours) | • | | | • | | | • | |
| CO2,CO5 | Describe the clinical features of Hypothyroidism and hyperthyroidism | CC | DK | КН | L_VC ,RP | M-POS | F&S | III | |
| CO3 | Perform relevant clinical examination of Hypothyroidism and hyperthyroidism | PSY- GUD | DK | SH | L_VC ,D_B ED | OSCE | F&S | III | |
| CO4 | Order and interpret relevant investigations of Hypothyroidism and hyperthyroidism | CAP | DK | SH | L&G D,LRI | SP | F&S | III | |
| Topic 36 36 | 5. Sthoulya – Karshya (Lecture :1 hours, Non lecture: 0 hours) | | | | | | | | |
| CO1 | Describe nidana of Sthoulya and Karshya | CC | МК | KH | L&PP T | T-OBT | F&S | III | |
| CO1 | Describe samprapti of Sthoulya | CC | МК | КН | L&G D | M-CHT | F&S | III | |
| CO1,CO5 | Describe samanya and vishista lakshana of Sthoulya | CC | МК | КН | L&PP T | QZ | F&S | III | |
| CO1,CO5 | Describe samanya lakshana of Karshya | CC | MK | КН | L&PP T | O-QZ | F&S | III | |

| | | МК | KH | L&PP T | O-QZ | F&S | III | |
|---|---|--|--|---|---|---|--|--|
| Differential diagnosis of Karshya | CC | МК | КН | DIS | CL-PR | F&S | III | 1 |
| Obesity (Lecture :1 hours, Non lecture: 1 hours) | | | 1 | | | · | | • |
| Describe the clinical features of Obesity | CC | DK | KH | FC | WP | F&S | III | H-SW |
| Perform relevant clinical examination of Obesity | PSY- GUD | DK | SH | L_VC ,D_B ED | OSCE | F&S | III | |
| Order and interpret relevant investigations of Obesity | CAP | DK | SH | PBL, LRI | INT | F&S | III | |
| Describe the differential diagnosis of Obesity | CC | DK | КН | L&G D,PB L | INT | F&S | III | |
| Prameha (Lecture :2 hours, Non lecture: 1 hours) | | | 1 | | 1 | | | 4 |
| Describe pratyatma lakshana of Prameha | CC | МК | KH | L&PP T | PUZ | F&S | III | |
| Describe hetu and samprapti of Prameha | CC | МК | КН | L&G D | M-CHT | F&S | III | |
| Enlist bheda of Prameha | СК | МК | K | L&PP T | QZ | F&S | III | |
| Describe purvaroopa, vishishta lakshana, upadrava and sadhya asadhyata of Prameha | CC | МК | КН | L&PP T | PRN | F&S | III | |
| | Obesity (Lecture :1 hours, Non lecture: 1 hours) Describe the clinical features of Obesity Perform relevant clinical examination of Obesity Order and interpret relevant investigations of Obesity Describe the differential diagnosis of Obesity Prameha (Lecture :2 hours, Non lecture: 1 hours) Describe pratyatma lakshana of Prameha Describe hetu and samprapti of Prameha Enlist bheda of Prameha Describe purvaroopa, vishishta lakshana, upadrava and sadhya | Obesity (Lecture :1 hours, Non lecture: 1 hours) Describe the clinical features of Obesity CC Perform relevant clinical examination of Obesity PSY-GUD Order and interpret relevant investigations of Obesity CAP Describe the differential diagnosis of Obesity CC Prameha (Lecture :2 hours, Non lecture: 1 hours) CC Describe pratyatma lakshana of Prameha CC Describe hetu and samprapti of Prameha CC Enlist bheda of Prameha CK Describe purvaroopa, vishishta lakshana, upadrava and sadhya CC | Obesity (Lecture :1 hours, Non lecture: 1 hours)Describe the clinical features of ObesityCCDKPerform relevant clinical examination of ObesityPSY- GUDDKOrder and interpret relevant investigations of ObesityCAPDKDescribe the differential diagnosis of ObesityCCDKPrameha (Lecture :2 hours, Non lecture: 1 hours)CCMKDescribe pratyatma lakshana of PramehaCCMKDescribe hetu and samprapti of PramehaCCMKEnlist bheda of PramehaCKMKDescribe purvaroopa, vishishta lakshana, upadrava and sadhyaCCMK | Obesity(Lecture :1 hours, Non lecture: 1 hours)Describe the clinical features of ObesityCCDKKHPerform relevant clinical examination of ObesityPSY- GUDDKSHOrder and interpret relevant investigations of ObesityCAPDKSHDescribe the differential diagnosis of ObesityCCDKKHPrameha (Lecture :2 hours, Non lecture: 1 hours)CCMKKHDescribe pratyatma lakshana of PramehaCCMKKHEnlist bheda of PramehaCKMKKHDescribe purvaroopa, vishishta lakshana, upadrava and sadhyaCCMKKH | Differential diagnosis of KarshyaCCMKKHDISDescribe the clinical features of ObesityCCDKKHFCPerform relevant clinical examination of ObesityPSY- GUDDKSHL_VC ,D_B EDOrder and interpret relevant investigations of ObesityCAPDKSHPBL, LRIDescribe the differential diagnosis of ObesityCCDKKHL&G D,PB LDescribe the differential diagnosis of ObesityCCDKKHL&G D,PB LDescribe the differential diagnosis of ObesityCCMKKHL&G D,PB LDescribe the differential diagnosis of ObesityCCMKKHL&G D,PB LDescribe pratyatma lakshana of PramehaCCMKKHL&G DDescribe hetu and samprapti of PramehaCCMKKHL&G DEnlist bheda of PramehaCKMKKL&PP TDescribe purvaroopa, vishishta lakshana, upadrava and sadhyaCCMKKHL&PP | Differential diagnosis of KarshyaCCMKKHDISCL-PRObesity (Lecture :1 hours, Non lecture: 1 hours)Describe the clinical features of ObesityCCDKKHFCWPPerform relevant clinical examination of ObesityPSY- GUDDKSHL_VC D_D_BOSCE D_D_BOSCE D_D_BOSCE D_D_BOrder and interpret relevant investigations of ObesityCAPDKSHPBL, LRIINTDescribe the differential diagnosis of ObesityCCDKKHL&G D_P_BINTDescribe the differential diagnosis of ObesityCCDKKHL&G D_P_BINTDescribe pratyatma lakshana of PramehaCCMKKHL&GP TPUZDescribe hetu and samprapti of PramehaCKMKKHL&GP TQZDescribe purvaroopa, vishishta lakshana, upadrava and sadhyaCCMKKHL&PP PRNPRN | Differential diagnosis of KarshyaCCMKKHDISCL-PRF&SObesity (Lecture :1 hours, Non lecture: 1 hours)CCDKKHFCWPF&SDescribe the clinical features of ObesityCCDKKHFCWPF&SPerform relevant clinical examination of ObesityPSY- GUDDKSHL_VC .DC .DCOSCEF&SOrder and interpret relevant investigations of ObesityCAPDKSHPBL, .LRIINTF&SDescribe the differential diagnosis of ObesityCCDKKHL&G .DPBINTF&SDescribe the differential diagnosis of ObesityCCDKKHL&PP .DPBINTF&SDescribe pratyatma lakshana of PramehaCCMKKHL&PP .DPPUZ .FF&SDescribe hetu and samprapti of PramehaCCMKKHL&PP .DPQZ .FF&SEnlist bheda of PramehaCKMKKHL&PP .DPPRNF&S | Differential diagnosis of KarshyaCCMKKHDISCL-PRF&SIIIDescribe the clinical features of ObesityCCDKKHFCWPF&SIIIPerform relevant clinical examination of ObesityCCDKKHFCWPF&SIIIPerform relevant clinical examination of ObesityPSY- GUDDKSHL_VC D_B EDOSCEF&SIIIOrder and interpret relevant investigations of ObesityCAPDKSHLRIINTF&SIIIDescribe the differential diagnosis of ObesityCCDKSHL&G D,PB LINTF&SIIIDescribe the differential diagnosis of ObesityCCDKKHL&G D,PBINTF&SIIIDescribe pratyatma lakshana of PramehaCCMKKHL&GP TPUZF&SIIIDescribe hetu and samprapti of PramehaCCMKKHL&GP DM-CHTF&SIIIEnlist bheda of PramehaCKMKKHL&PP TQZF&SIIIDescribe purvaroopa, vishishta lakshana, upadrava and sadhyaCCMKKHL&PP TPRNF&SIII |

| CO2,CO5 | Describe the clinical features of Diabetes Mellitus and Pancreatitis | CC | DK | КН | L&G D,CB L | INT | F&S | III |
|--------------|--|-------------|----|----|--------------------|-------|-----|-----|
| CO2 | Describe the complications of Diabetes Mellitus and Pancreatitis | CC | DK | KH | L_VC | T-CS | F&S | III |
| CO3 | Perform relevant clinical examination of Diabetes Mellitus and Pancreatitis | PSY- GUD | DK | SH | L_VC ,D_B ED | OSCE | F&S | III |
| CO4 | Order and interpret relevant investigations of Diabetes Mellitus and Pancreatitis | CAP | DK | SH | L&G D,LRI | SP | F&S | III |
| CO2,CO5 | Describe Pancreatitis induced Diabetes mellitus (Fibrocalculous pancreatic Diabetes) | CC | DK | КН | L&G D | INT | F&S | III |
| Topic 40 40. | Vatavyadhi (Lecture :1 hours, Non lecture: 0 hours) | - | | | | | | |
| CO1,CO5 | Describe nidana, samanya purvaroopa, and samanya lakshana of Vatavyadhi | CC | МК | КН | L&PP T | QZ | F&S | III |
| Topic 41 41. | Snayugata vata (Lecture :4 hours, Non lecture: 2 hours) | | | | | | | |
| CO1 | Define Akshepaka | СК | МК | К | L&PP T | QZ | F&S | III |
| CO1 | Enlist Snayugata vata | СК | МК | К | L&PP T | QZ | F&S | III |
| C01,C05 | Describe Akshepaka | CC | МК | KH | L_VC | C-VC | F&S | III |
| CO1 | Enlist Akshepaka bheda | СК | МК | К | L&PP T | QZ | F&S | III |
| CO1 | Explain Akshepaka Samprapti | CC | МК | КН | L&G D | M-CHT | F&S | III |

| CO1,CO5 | Describe Apatanaka | CC | МК | KH | L&PP T | INT | F&S | Ш | |
|---------|---|----|----|----|-------------------|-----------|-----|-----|--|
| CO1 | Enlist Apatanaka bheda | СК | МК | К | L&PP T | QZ | F&S | III | |
| CO1,CO5 | Describe Dandapatanaka, Antarayama and Bahirayama | CC | МК | КН | L&PP T,CB L | C-VC | F&S | III | |
| CO1 | Define Ardita | СК | МК | K | L&PP T | O-QZ | F&S | III | |
| C01,C05 | Describe Ardita, samprapti of Ardita and lakshana of Ardita | CC | MK | KH | L_VC | INT, C-VC | F&S | III | |
| CO1 | Compare Ardita according to Charaka and Sushruta | CC | MK | KH | DIS | C-VC | F&S | III | |
| CO1 | Enlist Sadyasadyata of Ardita | СК | МК | K | L&PP T | INT | F&S | III | |
| CO1 | Define Pakshaghata | CK | МК | K | L&PP T | QZ | F&S | III | |
| CO1,CO5 | Describe Pakshaghata samprapti, and Pakshaghata lakshana | CC | МК | КН | L&G D,CD | C-VC | F&S | III | |
| CO1,CO5 | Describe Kampavata | CC | МК | КН | L_VC | C-VC | F&S | III | |
| CO1,CO5 | Describe Gridhrasi and Vishwachi with its lakshana | CC | МК | KH | CBL | T-CS | F&S | III | |
| CO1,CO5 | Describe differential diagnosis of Gridhrasi and Viswachi | CC | МК | КН | L&G D | INT | F&S | III | |
| CO1,CO5 | Describe Pangutwa | CC | МК | КН | L_VC | C-VC | F&S | III | |
| CO1,CO5 | Differentiate Khanja with Gridhrasi | CC | МК | КН | L&G | C-VC | F&S | III | |

| | | | | D | | | | |
|---|--|--|---|---|--|--|--|---|
| . Common neurologic and spine disorders (Lecture :2 hours, 1 | Non lect | ture: 4 hours) | | | | • | • | |
| Describe the clinical features of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis | CC | DK | КН | L_VC ,RP | C-VC | F&S | III | |
| Perform relevant clinical examination of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis | PSY- GUD | DK | SH | L_VC ,D_B ED | OSCE | F&S | III | |
| Order and interpret relevant investigations of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis | САР | DK | SH | L&G D,LRI | INT | F&S | III | |
| . Sandhigatavata and Asthi majja gata vata (Lecture :1 hours | , Non le | ecture: 0 hours) | | • | | • | • | |
| Describe Sandhigatavata | CC | МК | KH | L_VC | C-VC | F&S | III | |
| Describe Katigraha and Manyastambha | CC | МК | КН | L&PP T | INT | F&S | III | |
| Explain Vatakantaka | CC | МК | КН | L&PP T | T-CS | F&S | III | |
| Describe Avabahuka and Amsashosha | CC | МК | КН | L&PP T | INT | F&S | III | |
| | Describe the clinical features of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis Perform relevant clinical examination of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis Order and interpret relevant investigations of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis Order and interpret relevant investigations of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis . Sandhigatavata and Asthi majja gata vata (Lecture :1 hours) Describe Sandhigatavata Describe Kat | Describe the clinical features of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber SpondylosisPSY- GUDPerform relevant clinical examination of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber SpondylosisPSY- GUDOrder and interpret relevant investigations of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber SpondylosisCAPOrder and interpret relevant 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:2 hours, Non lecture: 4 hours)Describe the clinical features of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber SpondylosisCCDKKHL_VC ,RPPerform relevant clinical examination of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber SpondylosisPSY- GUDDKSHL_VC ,D_BOrder and interpret relevant investigations of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber SpondylosisCAPDKSHL&G D,LRIOrder and interpret relevant investigations of Common neurologic diseases: 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Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis PSY- GUD DK SH L_VC D_B D_B Order and interpret relevant investigations of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis CAP DK DK SH L&C L_VC D_LRI INT Sandhigatavata and Asthi majja gata vata (Lecture :1 hours, Non lecture: 0 hours) Describe Sandhigatavata CC MK KH L_VC L_VC C-VC Describe Katigraha and Manyastambha CC MK KH L_VC C-VC Describe Avabahuka and Amsashosha CC MK KH L&PP T'CS < | Common neurologic and spine disorders (Lecture :2 hours, Non lecture: 4 hours) Describe the clinical features of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and 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Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber SpondylosisCCDKKHL_VC ,RPC-VCF&SIIIPerform relevant clinical examination of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber SpondylosisPSY- GUDDKSH ,D_B EDL_VC ,OSCE ,D_BF&SIIIOrder and interpret relevant investigations of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic) and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber SpondylosisCAP DKDKSH L_VC DLRILwG DLRIINT F&SF&SIIIOrder and interpret relevant investigations of Common neurologic diseases: Parkinson's 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| CO1,CO5 | Describe the differential diagnosis of Avabahuka with Vishwachi | CC | MK | KH | L&G D | QZ | F&S | III | |
|--------------------|--|-------------|----------|----|---------------------------|-------|-----|-----|--|
| CO1,CO5 | Describe Asthi-majjagata vata | CC | МК | КН | L&PP T | INT | F&S | III | |
| Topic 44 44 | Diseases of bone, joints, and muscles (Lecture :1 hours, Non | lecture: | 2 hours) | | | 1 | | | |
| CO2,CO5 | Describe the clinical features of Diseases of bone and Joints - Osteoarthritis, Osteoporosis, Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome; Muscular diseases - Muscular Dystrophy | CC | DK | KH | L_VC | C-VC | F&S | III | |
| CO3 | Perform relevant clinical examination of Diseases of bone and Joints - Osteoarthritis, Osteoporosis. Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome; Muscular diseases - Muscular Dystrophy | PSY- GUD | DK | SH | L_VC ,D_B ED | OSCE | F&S | III | |
| CO4 | Order and interpret relevant investigations of Diseases of bone and Joints - Osteoarthritis, Osteoporosis. Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome; Muscular diseases - Muscular Dystrophy | CAP | DK | SH | L&G D,XR ay,LR I | INT | F&S | III | |
| Topic 45 45 | Amavata (Lecture :2 hours, Non lecture: 0 hours) | | | 1 | | • | ļ | | |
| CO1 | Describe hetu and samprapti of Amavata | CC | МК | КН | L&PP T | M-CHT | F&S | III | |
| CO1 | Enlist bheda of Amavata | СК | МК | К | L&PP T | QZ | F&S | III | |
| CO1,CO5 | Describe samanya lakshana, vishishta lakshana, upadrava and sadhya asadhyata of Amavata | CC | МК | КН | L_VC | C-VC | F&S | III | |

| CO1 | Define Vatarakta with its synonyms | СК | МК | K | L&PP T | O-QZ | F&S | III | |
|-------------|--|-------------|-------------|----|--------------------|----------|-----|-----|--|
| CO1 | Describe hetu and samprapti of Vatarakta | CC | МК | КН | L&G D | M-CHT | F&S | III | |
| CO1 | Explain Samprapti of Avasthika Vatarakta | CC | МК | КН | L&G D | INT | F&S | III | |
| CO1,CO5 | Enlist and explain vidhi samprapti of Vatarakta | CC | МК | КН | L&G D | INT | F&S | Π | |
| CO1,CO5 | Enlist and explain bheda of doshaja Vatarakta | CC | МК | КН | L&G D | T-CS | F&S | III | |
| C01,C05 | Describe purvaroopa, upadrava, and sadhya asadhyata of Vatarakta | CC | МК | КН | L&PP T | INT | F&S | III | |
| CO1,CO5 | Describe the differential diagnosis of Sandhigata vata, Amavata and Vata rakta | CC | MK | КН | L&G D | T-CS,INT | F&S | III | |
| Topic 47 47 | . Immunological & Metabolic disorders (Lecture :1 hours, No | on lectur | e: 2 hours) | | | | | | |
| CO2,CO5 | Describe the clinical features of Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, Gout | CC | DK | КН | L_VC ,RP | C-VC | F&S | III | |
| CO3 | Perform relevant clinical examination of Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, Gout | PSY- GUD | DK | SH | L_VC ,D_B ED | OSCE | F&S | III | |
| CO4 | Order and interpret relevant investigations of Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, Gout | CAP | DK | SH | L&G D,LRI | T-CS | F&S | III | |
| CO2,CO5 | Describe the differential diagnosis of Arthritis | CC | DK | КН | L&G D,PB L | T-CS | F&S | III | |

| Topic 48 | 48. Klaibya & Vandhyatva (Lecture :1 hours, Non lecture: 0 hou | rs) | | | | | | | |
|----------|---|---------|--------|----|-------------------|---------|-----|-----|------|
| CO1 | Describe Klaibya and vandhyatva | CC | NK | КН | L&PP T | QZ | F&S | III | |
| CO1 | Enlist types of Klaibya and Vandhyatva | СК | NK | К | L&PP T | QZ | F&S | III | |
| Topic 49 | 49. Sexual dysfunction and Infertility (Lecture :1 hours, Non lec | ture: 1 | hours) | | | | | | |
| CO2 | Order and interpret relevant investigations of Sexual dysfunction and Infertility | CAP | NK | SH | L&G D,LRI | T-CS | F&S | III | |
| CO2 | Describe differential diagnosis of Sexual dysfunction and Infertility | CC | NK | КН | L&G D | INT | F&S | III | V-SP |
| Topic 50 | 50. Unmada & Apasmara (Lecture :3 hours, Non lecture: 0 hours | 5) | • | | | | | • | |
| CO1 | Explain nirukti of Unmada and Apasmara | CC | NK | КН | L&PP T | O-QZ | F&S | III | |
| CO1 | Explain pratyatmalakshana of Unmada and Apasmara | CC | NK | КН | L&PP T | PUZ | F&S | III | |
| CO1 | Describe hetu and samprapti of Unmada and Apasmara | CC | NK | КН | L&G D | M-CHT | F&S | III | |
| CO1 | Enlist bheda of Unmada and Apasmara | СК | NK | K | L&PP T | QZ | F&S | III | |
| CO1 | Describe samanya lakshana of Unmada and Apasmara | CC | NK | КН | L&G D,L_ VC | QZ,C-VC | F&S | III | |

| CO1 | Define Vishada | СК | NK | K | L&PP T | QZ | F&S | III | |
|-------------|---|-------------|----|----|--------------------|-------|-----|-----|---------|
| Topic 52 52 | 2. Murchha, and Sanyasa (Lecture :1 hours, Non lecture: 0 hou | irs) | 1 | I | - | | | - | |
| CO1 | Describe the Utpadaka hetu of Murchha, and Sanyasa | CC | NK | KH | L&PP T | INT | F&S | III | |
| CO1 | Describe samprapti of Murchha, and Sanyasa | CC | NK | КН | L&G D | M-CHT | F&S | III | |
| Topic 53 53 | 3. Common Psychiatric diseases (Lecture :1 hours, Non lecture | : 0 hour | s) | | | | | | - |
| CO2,CO5 | Describe clinical manifestation of Depression, Anxiety neurosis and Epilepsy (Non-organic) | CC | NK | KH | L&PP T | QZ | F&S | III | |
| CO2,CO5 | Differentiate Depression, Anxiety neurosis, and Epilepsy (Non- organic) | CC | NK | КН | L&G D | CL-PR | F&S | III | |
| CO3 | Perform mental status examination for Depression, Anxiety neurosis, and Epilepsy (Non-organic) | PSY- GUD | NK | SH | L_VC ,D_B ED | INT | F&S | III | |
| Topic 54 54 | 4. Phiranga and Upadamsha (Lecture :1 hours, Non lecture: 0) | hours) | | | • | | | | |
| CO1 | Describe nidana of Phiranga and Upadamsha | CC | NK | KH | L&PP T | QZ | F&S | III | |
| CO1 | Explain the Upadamsha samprapti | CC | NK | КН | L&PP T | M-CHT | F&S | III | |
| CO1 | Enlist the types of Phiranga | СК | NK | K | L&PP T | QZ | F&S | III | |

| CO2 | Describe causative factors, and clinical features of Syphilis and Gonorrhoea | CC | NK | КН | L&G D | T-CS | F&S | Ш | |
|-------------|--|-------------|------------------|----------|--------------|--------|-----|-------|--|
| CO2 | Describe differential diagnosis of Syphilis and Gonorrhoea | CC | NK | KH | FC | T-CS | F&S | III | |
| CO4 | Order and interpret relevant investigation of Syphilis and Gonorrhoea | CAP | NK | SH | L&G D,LRI | INT | F&S | III | |
| Topic 56 56 | Krimiroga (Lecture :1 hours, Non lecture: 0 hours) | | | • | | | | • | |
| CO1 | Describe hetu of Krimiroga | CC | NK | КН | L&PP T | O-QZ | F&S | III | |
| CO1 | Enlist bheda of Krimiroga | СК | NK | К | L&PP T | O-QZ | F&S | III | |
| CO1 | Describe samanya lakshana of Krimiroga | CC | NK | КН | L&PP T | O-GAME | F&S | III | |
| Topic 57 57 | . Clinical presentation of common parasitic disorders (Lectu | re :1 ho | urs, Non lecture | : 2 hour | rs) | | • | • • • | |
| CO2,CO5 | Describe the clinical presentation of Hook worm, Round worm, Thread worm, and Pin worm | CC | DK | КН | L_VC | C-VC | F&S | III | |
| CO3 | Perform relevant examination of clinical presentation of Hook worm, Round worm, Thread worm, and Pin worm | PSY- GUD | DK | SH | L&PP T | INT | F&S | III | |
| CO4 | Order and interpret relevant investigations of clinical presentation of Hook worm, Round worm, Thread worm, and Pin worm | CAP | DK | SH | L&G D,LRI | T-CS | F&S | ш | |
| Topic 58 58 | 3. Khalitya & Palitya (Lecture :1 hours, Non lecture: 0 hours) | | | | ÷ | | • | | |
| CO1 | Describe Khalitya and Palitya | CC | NK | KH | L&PP T | O-QZ | F&S | ш | |
| - | • | • | | | | | | • | |

| Topic 59 59 | 9. Shleepada (Lecture :1 hours, Non lecture: 0 hours) | | | | | | | | |
|-------------|--|-------------|----|----|--------------|-----------|-----|-----|------|
| CO1 | Describe nidana and samprapti of Shleepada | CC | NK | KH | L&PP T | M-CHT | F&S | III | |
| CO1 | Enlist bheda of Shleepada | СК | NK | K | L&PP T | QZ | F&S | III | |
| CO1 | Enlist features of Shleepada | СК | NK | K | L&PP T | O-QZ | F&S | III | |
| Topic 60 6 | 0. Tuberculosis (Lecture :1 hours, Non lecture: 2 hours) | · | | · | • | | | • | - |
| CO2,CO5 | Describe the clinical presentation of Tuberculosis | CC | DK | KH | L_VC | INT, C-VC | F&S | III | H-SW |
| CO3 | Perform relevant clinical examination of Tuberculosis | PSY- GUD | DK | SH | L&PP T | INT | F&S | III | |
| CO4 | Order and interpret relevant investigations of clinical presentation of Tuberculosis | CAP | DK | SH | L&G D,LRI | INT | F&S | III | |

List of Practicals (Term and Hours)

| | PRACTICALS (Marks-100) | | |
|------|--|------|-------|
| S.No | List of Topics | Term | Hours |
| 1 | 1. Aptopadesha Pareeksha/Prashna Pareeksha | 1 | 10 |
| 2 | 2. Introduction to case sheet. Pratyaksha and Anumana Pareeksha. | 1 | 10 |
| 3 | 3. General clinical and Systemic examination -A | 1 | 20 |
| 4 | 4. General clinical and Systemic examination - B | 1 | 20 |
| 5 | 5. Common Symptomatology of different systems | 2 | 20 |
| 6 | 6. Vyavachedaka nidana/ Differential diagnosis | 2 | 4 |
| 7 | 7. Case presentation | 2 | 40 |
| 8 | 8. Introduction to Diagnostic procedures - Hematology, Biochemistry, Microbiology, Urine, Stool | 2 | 26 |
| 9 | 9. Introduction to Electro Cardio Gram (ECG), Different imaging techniques | 2 | 10 |
| 10 | 10. Introduction to Histopathology | 2 | 4 |
| 11 | 11. Study of Histopathology Specimens | 3 | 4 |
| 12 | 12. Retas pareeksha | 3 | 2 |
| 13 | 13. Pathology practical (Perform/ Observation/ Interpretation) | 3 | 40 |

Table 4: Learning objectives (Practical)

| A4 | B4 | C4 | D4 | E4 | F4 | G4 | H4 | I4 | K4 |
|-------------------|---|----------------|--|--|-------------------|--|---------------------------------|------|-------------|
| Course outcome | Learning Objective (At the end of the session, the students should be able to) | Doma in/sub | Must to know / desirable to know / Nice to know | Level Does/ Show s how/ Know s how/ Know | T-L meth od | Assessment (Refer abbreviations) | Form ative/ summ ative | Term | Integration |
| Topic 1 1. Ap | otopadesha Pareeksha/Prashna Pareeksha | | | | | | | | |
| CO3,CO5 | Perform Aptopadesha pareeksha, Prashna pareeksha or History taking mentioned in Ayurveda and contemporary medical literature for drawing clinical diagnosis and prognosis | PSY- GUD | МК | КН | D_BE D | CHK,RK | F&S | Ι | |
| C07,C08 | Adopt and reflect ward ethics and communication skills while engaging in the process of examination | AFT- RES | МК | SH | SIM | SP,RK | F&S | I | |
| Topic 2 2. In | troduction to case sheet. Pratyaksha and Anumana Pareeks | ha. | | | | | | | |
| CO3,CO5 | Perform Darshanendriya, Sparshanedriya, Srotrendriya pareeksha mentioned in Ayurveda and contemporary medical literature for drawing clinical diagnosis and prognosis | PSY- GUD | МК | SH | D_BE D | P-CASE | F&S | Ι | |
| CO5 | Perform Ghranendriya, & infer Rasanendriyataha pareeksha mentioned in Ayurveda and contemporary medical literature for drawing clinical diagnosis and prognosis | CAN | МК | КН | SIM | P-CASE,RK | F&S | Ι | |
| C05,C07 | Report the findings of patient through structured case sheet | CC | МК | КН | CD | P-CASE,RK | F&S | I | |
| CO3,CO5 | Perform Nadi pareeksha as per Ayurveda classics for identifying predominance of dosha. | PSY- GUD | МК | SH | D_BE D | P-PRF | F&S | Ι | |

| CO3,CO5 | Perform general examination and various systemic examination - General physical examination, Nervous system, Musculo skeletal system, Gastro intestinal system, Respiratory system, Integumentary system, Uro-genital system, Cardiovascular system, etc. (Inspection, Palpation, Percussion, Auscultation) | PSY- GUD | МК | SH | SIM, D_BE D | CL-PR,OSCE ,RK | F&S | Ι | |
|--------------|---|-------------|----|----|-------------------|-------------------|-----|---|---|
| Topic 4 4. (| General clinical and Systemic examination - B | | | | · | | | | |
| CO3,CO5 | Interpret the findings of general examination and various systemic examination - General physical examination, Nervous system, Musculo skeletal system, Gastro intestinal system, Respiratory system, Integumentary system, Uro-genital system, Cardiovascular system, etc. (Inspection, Palpation, Percussion, Auscultation) | САР | МК | SH | SIM | SP,RK | F&S | I | |
| Topic 5 5. 0 | Common Symptomatology of different systems | • | | • | • | | | - | • |
| CO2,CO5 | Describe the causes and mechanism of manifestation of Pain abdomen, Edema, Diarrhea, Dysentery, Dehydration and Constipation, Hiccough, Breathlessness, Cough, Vomiting, Joint pain with or without swelling Differential Diagnosis, Neck and Low back pain radiating to corresponding limb, Hematuria, Stroke in various case scenarios | CC | DK | KH | L_VC | СОМ | F&S | Ш | |
| CO2,CO5 | Investigate the causes and mechanism of manifestation of Pain abdomen, Edema, Diarrhea, Dysentery, Dehydration and Constipation, Hiccough, Breathlessness, Cough, Vomiting, Joint pain with or without swelling, Neck and Low back pain radiating to corresponding limb, Hematuria, Stroke in various case scenarios | AFT- RES | DK | SH | IBL,P BL | INT | F&S | Π | |

| CO5 | Infer diagnosis and prognosis based on a given clinical scenario | CAN | МК | KH | PBL, CD | SP | F&S | II |
|-----------------|--|-------------|-------------------|--------------|--------------------|------------------|-----|-----|
| CO5 | Apply hypothetic-deductive model of clinical reasoning, Pattern recognition model, dual process diagnostic reasoning model, pathway for clinical reasoning model, integrative model of clinical reasoning model, model of diagnostic reasoning strategies in primary care for clinical diagnosis | САР | DK | SH | SIM, CD | INT,SP | F&S | Π |
| CO5 | Apply intuitive and analytical approach in clinical decision making | CAP | DK | SH | PBL,S IM,C D | SP | F&S | Ш |
| CO5 | Perform clinical diagnosis using these clinical reasoning models | PSY- GUD | DK | SH | SIM, CD | SP | F&S | II |
| Topic 7 7. Ca | ase presentation | | - | - | | | 1 | |
| CO5,CO7 | Demonstrate case presentation skills | PSY- GUD | MK | SH | L_VC ,D_B ED | P-CASE,CL- PR | F&S | П |
| Topic 8 8. In | troduction to Diagnostic procedures - Hematology, Biochen | nistry, N | _ /licrobiolog | gy, Urine, S | tool | I | - | 1 1 |
| CO4,CO5,CO 6 | Order and interpret Diagnostic procedures - Haematology, Biochemistry, Microbiology, Urine, and Stool. | CAP | МК | SH | PBL, LRI | T-CS | F&S | II |
| CO3 | Suggest patient's preparation for Diagnostic procedures - Haematology, Biochemistry, Microbiology, Urine, and Stool | AFT- RES | МК | SH | L&PP T | SP | F&S | II |
| CO3 | Perform sample collection for Diagnostic procedures - Haematology, Biochemistry, Microbiology, Urine, and Stool | PSY- GUD | МК | SH | SIM | SP,RK | F&S | II |
| Topic 9 9. In | troduction to Electro Cardio Gram (ECG), Different imagi | ng techi | niques | | - | | - | |
| CO4,CO5,CO | Order and interpret given report for Electro Cardio Gram (ECG) | CAP | DK | SH | L&PP | P-ID,CL-PR | F&S | Π |

| 6 | and different imaging techniques | | | | T,XR ay | | | | |
|---------------------|--|-------------|----|----|------------|--------|-----|-----|--|
| CO3 | Suggest patient's preparation for Electro Cardio Gram (ECG) and different imaging techniques | AFT- RES | DK | SH | L&PP T | INT,SP | F&S | II | |
| Topic 10 10. | Introduction to Histopathology | | | • | | • | | | |
| CO4,CO5,CO 6 | Order and interpret tests for Histopathology specimens | CAP | NK | SH | LRI | INT | F&S | III | |
| Topic 11 11. | Study of Histopathology Specimens | | | | | · | • | | |
| CO4,CO5 | Distinguish and describe prepared histopathology specimens of Lung and trachea/ Blood, Spleen and lymph/ Heart and vessels/ Glands/ Liver (Provide normal and abnormal slides to distinguish while deomonstration and spotting) | AFT- RES | NK | SH | D_L | P-ID | F&S | III | |
| Topic 12 12. | Retas pareeksha | | | | • | | | | |
| C01,C05 | Describe and interpret retas pareeksha | CC | DK | KH | D_L | INT | F&S | III | |
| Topic 13 13. | Pathology practical (Perform/ Observation/ Interpretation) | | | | • | | | | |
| CO4,CO5,CO 6 | Order and interpret Hb, RBC Count, WBC count, Haematocrit, Platelet count, Differential count, RBC indices and ESR* - Haematology Analyser through Flow cytometry technique | CAP | МК | SH | CBL | INT,RK | F&S | III | |
| CO3 | Perform Hb, RBC Count, WBC count, Haematocrit, Platelet count, Differential count, RBC indices procedure through - Haematology Analyser or Cell counter through Flow cytometry technique | PSY- GUD | МК | SH | PT | P-PRF | F&S | III | |
| CO4,CO5,CO 6 | Order and interpret Urine physical examination (Appearance, colour, odour) | САР | МК | SH | LRI | INT | F&S | III | |

| CO3 | Perform Urine physical examination (<u>Appearance, colour</u> , odour) through <u>Visual method</u> | PSY- GUD | MK | SH | CBL, PT | P-PRF | F&S | III | |
|-----------------|---|-------------|----|----|-------------|--------|-----|-----|--|
| CO4,CO5,CO 6 | Order and interpret Urine physical and chemical examination (Urine specific gravity, Urine-ph, Sugar, Albumin, Bile pigment, Bile salt, Occult blood, Ketone, Urobilinogen) - Multistix (Urine test strips) | САР | МК | SH | CBL, LRI | INT,RK | F&S | III | |
| CO3 | Perform Urine physical and chemical examination (Urine specific gravity, Urine-ph, Sugar, Albumin, Bile pigment, Bile salt, Occult blood, Ketone, Urobilinogen) - Multistix (Urine test strips) (Create or simulate abnormal samples to demonstrate positive results) | PSY- GUD | МК | SH | PRA | P-PRF | F&S | III | |
| CO4,CO5,CO 6 | Order and interpret Urine Microscopic Examination (Epithelial cells, RBCs, Leukocytes, Casts, Crystals) - Light microscopy on centrifuged sediment | САР | МК | SH | CBL, LRI | INT | F&S | III | |
| CO3 | Perform Urine Microscopic Examination (Epithelial cells, RBCs, Leukocytes, Casts, Crystals by Light microscopy on centrifuged sediment) | PSY- GUD | МК | SH | PRA | P-PRF | F&S | III | |
| CO4,CO5,CO 6 | Order and interpret Liver Function Test (LFT) (Total Bilirubin, Direct – indirect bilirubin, SGOT, SGPT, ALK Phosphates, T Protein, Albumin, Globulin, A/G Ratio) -Semi-automated/ fully automated biochemical analyser through Photometry | CAP | NK | SH | CBL, LRI | INT | F&S | Ш | |
| CO2 | Describe Liver Function Test (LFT) (Total Bilirubin, Direct – indirect bilirubin, SGOT, SGPT, ALK Phosphates, T Protein, Albumin, Globulin, A/G Ratio) procedure through demonstration | CC | DK | KH | D_L | INT | F&S | III | |

| | - Semi-automated/ fully automated biochemical analyser through Photometry | | | | | | | | |
|-----------------|--|-----|----|----|-------------|--------|-----|-----|--|
| CO2 | Explain the principle and mechanism of functioning of biochemical analyzer | CC | DK | КН | D_L | QZ | F&S | III | |
| CO4,CO5,CO 6 | Order and interpret Renal Function Test (RFT) (Urea, Creatinine, Uric acid) - Semi-automated/ fully automated biochemical analyser through Photometry | CAP | МК | SH | CBL, LRI | INT,RK | F&S | III | |
| CO4,CO5,CO 6 | Order and interpret Diabetic profile (Blood Glucose-FBS, PPBS, RBS. HbA1C, Insulin, C-peptide) - Semi-automated/ fully automated biochemistry analyser/ ELISA reader through Photometry/ immunoturbidometry/ELISA Technique | CAP | МК | SH | CBL, LRI | INT,RK | F&S | III | |
| CO4,CO5,CO 6 | Order and interpret Thyroid profile (TSH, T3, T4, F T3, F T4) - ELISA Reader/ CLIA through ELISA/ CLIA Technique | CAP | MK | KH | CBL, LRI | INT | F&S | III | |
| CO2 | Describe Thyroid profile (TSH, T3, T4, F T3, F T4) procedure through demonstration - ELISA Reader/ CLIA through ELISA/ CLIA Technique | CAP | DK | КН | D_L | QZ | F&S | III | |
| CO4,CO5,CO 6 | Order and interpret Lipid profile (Cholesterol, HDL, LDL, TG) - Semi-automated/ fully automated biochemical analyser through Photometry | САР | МК | SH | CBL, LRI | INT,RK | F&S | III | |
| CO4,CO5,CO 6 | Order and interpret Peripheral smear (Malaria, Microfilaria) - Microscopy through Leishmans staining | CAP | МК | SH | CBL, LRI | INT,RK | F&S | III | |
| CO2 | Describe Peripheral smear (Malaria, Microfilaria) procedure through demonstration - Microscopy through Leishmans staining | CC | DK | КН | D_L | QZ | F&S | III | |
| CO4,CO5,CO 6 | Order and interpret RA factor (qualitative), WIDAL (qualitative), VDRL (qualitative), ASO (qualitative) and CRP (qualitative) - Microscopy (if required) through Latex agglutination/ | CAP | МК | SH | CBL, LRI | INT,RK | F&S | III | |

| | Turbidometry | | | | | | | | |
|-----------------|---|-------------|----|----|-------------|---------|-----|-----|--|
| CO3 | Perform RA factor (qualitative), WIDAL (qualitative), VDRL (qualitative), ASO (qualitative) and CRP (qualitative) - Microscopy (if required) through Latex agglutination/ Turbidometry | PSY- GUD | МК | SH | PRA | P-PRF | F&S | III | |
| CO4,CO5,CO 6 | Order and interpret Stool examination (Colour, Consistency) - Visual method | CAP | NK | SH | CBL, LRI | INT,RK | F&S | III | |
| CO2 | Describe Stool examination (Colour, Consistency) - Visual method | CC | DK | KH | D_L | INT | F&S | III | |
| CO4,CO5,CO 6 | Order and interpret Stool examination (Ova , Cyst, Pus cells) - Microscopy through Wet smear (saline and iodine) | CAP | NK | SH | CBL, LRI | INT,RK | F&S | III | |
| CO2 | Describe Stool examination (Ova , Cyst, Pus cells) - Microscopy through Wet smear (saline and iodine) | CC | DK | KH | D_L | INT | F&S | III | |
| CO4,CO5,CO 6 | Order and interpret Semen examination (Colour, Liquefaction, Viscosity) - Visual method | CAP | DK | SH | CBL, LRI | INT,RK | F&S | III | |
| CO2 | Describe Semen examination (Colour, Liquefaction, Viscosity) procedure through demonstration - Visual method | CC | DK | KH | D_L | INT | F&S | III | |
| CO4,CO5,CO 6 | Order and interpret Semen examination (Sperm count, Motility, Morphology) - Microscopy through Cytometry/ Wet smear/ stained smear | CAP | DK | SH | CBL, LRI | INT,RK | F&S | III | |
| CO2 | Describe Semen examination (Sperm count, Motility, Morphology) procedure through demonstration - Microscopy through Cytometry/ Wet smear/ stained smear | CC | DK | КН | D_L | INT,COM | F&S | III | |
| CO4,CO5,CO 6 | Order and interpret BT, CT, Prothrombin Time - Coagulometer | CAP | МК | SH | CBL, LRI | INT,RK | F&S | III | |

Table 4a: List of Practical

| S.No | Name of practical | Term | Activity | Practical hrs |
|------|--|------|--|---------------|
| 1 | 1. Aptopadesha Pareeksha/Prashna Pareeksha | 1 | History taking/ Ward ethics/ Communication skills | 10 |
| 2 | 2. Introduction to case sheet. Pratyaksha and Anumana Pareeksha. | 1 | Darshanendriya, Sparshanedriya, Srotrendriya & Ghranendriya & Rasanendriyataha pareeksha. General principle of systemic examination – Inspection, Palpation, Percussion, Auscultation | 10 |
| 3 | 3. General clinical and Systemic examination -A | 1 | Demonstration on patients and using simulators, software or applications | 20 |
| 4 | 4. General clinical and Systemic examination - B | 1 | General and Systemic examination | 20 |
| 5 | 5. Common Symptomatology of different systems | 2 | Pain abdomen, Edema, Diarrhea, Dysentery, Dehydration and constipation, Hiccough, Breathlessness, Cough, Vomiting, Joint pain with or without swelling Differential Diagnosis, Neck and Low back pain radiating to corresponding limb, Hematuria, Stroke Differential Diagnosis | 20 |
| 6 | 6. Vyavachedaka nidana/ Differential diagnosis | 2 | Clinical reasoning models | 4 |
| 7 | 7. Case presentation | 2 | Demonstrating and presenting steps of clinical diagnosis | 40 |
| 8 | 8. Introduction to Diagnostic procedures - Hematology, Biochemistry, Microbiology, Urine, Stool | 2 | A. Order an investigation B. Patient's preparation C. Sample collection | 26 |
| 9 | 9. Introduction to Electro Cardio Gram (ECG), Different imaging techniques | 2 | Order and interpret reports related to ECG and Diagnostic imaging | 10 |
| 10 | 10. Introduction to Histopathology | 2 | Order and Interpret | 4 |

| | | | Total Hr | 210 |
|----------|--|---|--|------|
| 13 | 13. Pathology practical (Perform/ Observation/ Interpretation) | 5 | (Profile) 13. 2 Clinical pathology (Discipline) - Urine Physical Examination (Profile) 13. 3 Clinical pathology (Discipline) - Urine Physical and Chemical Examination (Profile) 13. 4 Clinical pathology (Discipline) - Urine Microscopic Examination (Profile) 13. 5 Clinical biochemistry (Discipline) - Liver Function Test (LFT) (Profile) 13. 6 Clinical biochemistry (Discipline) - Renal Function Test (RFT) (Profile) 13. 7 Clinical biochemistry (Discipline) - Diabetic profile (Profile) 13. 8 Clinical biochemistry (Discipline) - Thyroid profile (Profile) 13. 9 Clinical biochemistry (Discipline) - Lipid profile (Profile) 13. 10 Clinical Pathology/ Haematology (Discipline) - Peripheral Smear (Profile) 13. 11 Serology (Discipline) - RA Factor/ WIDAL (Profile) 13. 12 Clinical Pathology (Discipline) - Stool examination (Profile) 13. 13 Clinical Pathology (Discipline) - Stool examination (Profile) 13. 14 Clinical Pathology (Discipline) - Stool examination (Profile) 13. 15 Serology (Discipline) - Coagulation test (Profile) | |
| 12 13 | 12. Retas pareeksha 13. Pathology practical | 3 | Interpret observations derived from reto pareeksha 13.1 Hematology (Discipline) - Hemogram | 2 40 |
| 11 | Histopathology Specimens | 3 | Prepared histopathology specimens to be demonstrated, observed and studied (Lung and trachea/ Blood, Spleen and lymph/ Heart and vessels/ Glands/ Liver) | 4 |

Activity

| СО | Topic name | Activity Details | Hours [#] |
|---------------------------------|--|---|--------------------|
| C01,C02,C03,C04 ,C06,C07,C08 | Assessment of Dosha Vikriti: A. Nidana (Vyadhi janaka hetu) B. Agni bheda and Vikriti C. Dosha Vriddhi, Kshaya and Dushta Karma, Samsargaja, Sannipataja. D. Dosha swabhava - Nityasamshleshita (Leena) dosha and Parichedita dosha E. Paridhavamana dosha | Survey : After the completion of the topic the students are instructed to identify: The contemporary etiologies for the nidana or hetu are mentioned in various contexts as a part of case diagnosis. Identify Dosha Vriddhi, Kshaya and Dushta Karma, Samsargaja, Sannipataja features as a part of Case diagnosis. | 6 |
| | | Minimum - 5 cases | |
| C01,C02 | 2. Dhatu PakaA. Ojodusti lakshana B. Asatmya - Immune pathology, C. Cell Injury and Cellular Adaptations | Creating video presentations (5 to 7 minutes): After understanding the basic concepts: | 5 |
| | D. Inflammation E. Hemodynamic disorders F. Neoplasia | Group of 5 students together are instructed to prepare one quality educational video with current research updates in the field in a structured format and submit the same to the instructor. | |
| | | Topics of Ayurveda and various contemporary learning objectives defined can be provided for the same. | |
| | | The topics for video presentations should be selected from the subtopics, it can be regarding a specific point or research update or collection | |

| | | and summary of scientific articles, etc. which will be assisting in clinical practice. | |
|-----|--|---|---|
| | | The video presentations should be submitted to create a repository and presented to the department. | |
| CO2 | 3. Infection and Nutritional disorders | Class presentations: | 2 |
| | | Group activity with self-directed learning: Students are instructed to compile the subtopics given to the group. | |
| | | Prepare a PPT presentation and present it in class with the groups. | |
| | | 10 min. for presentation and 5 min for question answers for each group. | |
| | | Topics to be covered in the presentation: | |
| | | A) The detailed knowledge of specific organisms, infectious disease symptomatology, and diagnostic procedures with recent advancements and challenges in diagnosis. B) Nutritional disorders with the thought of understanding the spectrum of signs and symptoms with Ayurveda literature, methods to diagnose in contemporary science, complications, etc. | |
| | | Monitored by instructors or mentors assigned for each group. | |
| CO6 | 4. Digital health and Artificial intelligence in the context of Roganidana | Poster making: After a basic understanding of the topic, the students are instructed to prepare Posters regarding the use of Information and Communication Technology and other recent digital developments in understanding diagnosis, prognosis, and developing repositories related to morbidities or Roganidana Evum Vikriti Vigyan in the current era aiding for academics and | 1 |

| | | clinical practice.Similarly, the implementation of artificial intelligence in diagnosis and prognosis also can be prepared. | |
|---------------------------------|---------------------------------|--|---|
| C01,C02,C03,C04 ,C06,C07,C08 | 5. Methods of Rogi pareeksha | Demonstration bed side: After understanding the core concepts of pareeksha the student will be Demonstrated regarding various pareekshas before performing the same in practical session. The students are supposed to observe the same, receive, understand and imitate the methods demonstrated. Students will be assigned with the mentioned topics as a part of the activity by the instructor in minimum 5 simulated patients or patients. | 5 |
| CO6 | 6. Vyadhinamakarana | Demonstration: The instructor will be demonstrating the operations of the NAMASTE (National AYUSH Morbidity and Standardized Terminologies Electronic Portal) portal. The student should observe and implement the same for reporting terminologies or diagnosis.The instructor can give modified data indicating the disease diagnosis with masked patient details for mentioning the allotted codes of diseases or conditions from NAMASTE portal and WHO international standard terminologies on Ayurveda or A list of common diseases prevailing in the area can be given to the students to search the portal and mention the codes by themselves. Students can be assigned with any of the mentioned topics as a part of the activity by the instructor. | 1 |

| | | 1 | |
|-------------------------|--|---|---|
| CO2,CO3,CO6,CO7 ,CO8 | 7. Perform relevant clinical examinations in the following disorders: Gastrointestinal disorders: Ulcerative and Non- ulcerative dyspepsia, Irritable Bowel Syndrome, Inflammatory Bowel Diseases. Urinary disorders: Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury and Chronic Kidney Disease. Respiratory disorders: Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion and Bronchiectasis. Measles, Chickenpox and herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, Typhoid, and other common regional disorders presenting with fever. Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and | Demonstration bedside (Simulated patients): The students will be instructed to observe the bedside demonstration activity by the instructor, followed by students imitating or performing the same activity relevant to the condition associated. The case study will be written in the activity book. | 8 |
| | and other common regional disorders presenting with fever. Coronary Artery Disease (Ischemic Heart Disease, and Myocardial | | |

Allergic disorders -Eczema, Urticaria; Squamous lesions -Psoriasis, Lichen planus; Bullous lesion – Pemphigus and Pemphigoid. Mycotic skin diseases. Leprosy. Vitiligo. Cellulitis.

Hypothyroidism and hyperthyroidism.

Obesity.

Diabetes Mellitus and Pancreatitis.

Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic)

Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis.

Diseases of bone and Joints - Osteoarthritis, Osteoporosis. Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome.

Muscular diseases -Muscular Dystrophy. Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, Gout.

Mental status examination for Depression, Anxiety neurosis and Epilepsy

| | (Non - organic). Common parasitic infestations: Hookworm, Roundworm, Threadworm, and Pinworm. | | |
|-----------------|--|---|---|
| CO4,CO6,CO7,CO8 | 8. Order and interpret relevant investigations with the clinical correlation of the following disorders: Gastrointestinal disorders: Ulcerative and Non- ulcerative dyspepsia, Irritable Bowel Syndrome, Inflammatory Bowel Diseases. Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Acute Kidney Injury, and Chronic Kidney Disease. Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, and Bronchiectasis. Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, Typhoid, and other common regional disorders presenting with fever. Anaemia, Nutritional anaemia, Thalassemia, Sickle cell anaemia, Leukaemia, and | Lab report interpretation: Students will be given a clinical scenario or a case or report in the respective training hour. Based on the training given the students are expected to draw a provisional diagnosis based on the Lab report interpretation. The same has to be recorded in the activity book | 8 |

Thrombocytopenia.

Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure. Hepatobiliary diseases -Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Diseases, Hepatitis, Jaundice, and Ascites.

Allergic disorders -Eczema, Urticaria; Squamous lesions -Psoriasis, Lichen planus; Bullous lesion – Pemphigus and Pemphigoid. Mycotic skin diseases. Leprosy. Vitiligo. Cellulitis.

Hypothyroidism and hyperthyroidism. Obesity. Diabetes Mellitus and Pancreatitis. Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic).

Common Spine disorders: Lumbago - Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis.

Diseases of bone and Joints - Osteoarthritis, Osteoporosis. Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome.

| | Muscular diseases - Muscular Dystrophy. Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, Gout. Sexual dysfunction and Infertility.Syphilis and Gonorrhoea. Parasitic infestations: Hookworm, Roundworm, Threadworm, and Pinworm. Tuberculosis | | |
|---------|---|---|----|
| CO1,CO2 | 9. Differential diagnosis: Differentiate between Atisara and Pravahika. Differentiate Atisara and Grahani Roga. Differentiate Grahani dosha and Grahani Roga. Describe the differential diagnosis of Ulcerative and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, and Inflammatory Bowel Diseases. Enlist conditions of Mutra shoshana (Kshaya and Aukasada) and Mutra pratihanyate (Avarodha) among different types of Mutraghata. Describe different types of Mutraghata. | Problem-Based Learning: The students will be grouped for PBL sessions with a specific topic from the topic list given. At the end of the session, the groups will present in class. Peer learning will also be achieved with this activity. | 10 |

Differentiate Mootrakrichra and Mootraghata. Describe the differential diagnosis of Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, and Bronchiectasis. Describe the differential diagnosis of Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, Typhoid and other common regional disorders presenting with fever. Describe the differential diagnosis of Anaemia, Nutritional anemia, Thalassemia, Sickle cell anemia, Leukaemia, and Thrombocytopenia. Describe the differential diagnosis of Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure. Describe the differential diagnosis of Hepatobiliary diseases - Liver cirrhosis, Alcoholic and Non -Alcoholic Liver Diseases, Hepatitis, Jaundice, and Ascites. Describe the differential diagnosis of Hypothyroidism and hyperthyroidism.

Describe the differential diagnosis of Obesity.

Describe the differential diagnosis of Diabetes Mellitus and Pancreatitis.

Describe the differential diagnosis of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy, Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic), and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical, and Lumber Spondylosis.

Describe the differential diagnosis of Diseases of bone and Joints -Osteoarthritis, Osteoporosis. Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome, and Muscular diseases - Muscular Dystrophy.

Describe the differential diagnosis of Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, and Gout.

Describe differential diagnosis of Sexual dysfunction and Infertility.

Describe differential diagnosis of Syphilis and Gonorrhoea.

Describe the differential

| | diagnosis of clinical presentation of Hookworm, Roundworm, Threadworm, and Pinworm. Describe the differential diagnosis of the clinical presentation of Tuberculosis. | | |
|---------|---|---|----|
| CO2,CO5 | 10. Clinical features - Role plays in learning: Describe the clinical features of Ulcerative and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, and Inflammatory Bowel Diseases. Describe the clinical features of Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury, and Chronic Kidney Disease. Describe the clinical features of Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, and Bronchiectasis. Describe the clinical features of Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, typhoid, and other common regional disorders presenting with fever. | Role plays: Role plays are an effective method of teaching to create a real-world scenario in a controlled manner. In this certain group of students will be trained for pre-class preparation regarding a disease or condition to be presented in the class in front of small cluster groups of students. Further, the groups are asked to interact with the performing student to understand more about a condition and use their clinical acumen to diagnose the condition moderated by an instructor. | 10 |

Describe the

complications of Measles, Chicken pox and Herpes zoster, Hand foot mouth disease, Rubella, Malaria, Filariasis, Influenza, Dengue, Leptospirosis, Chikungunya, Typhoid, and other common regional disorders presenting with fever.

Describe the clinical features of Anaemia, Nutritional anemia, Thalassemia, Sickle cell anemia, Leukaemia, and Thrombocytopenia.

Describe the clinical features of Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure.

Describe the clinical features of Hepatobiliary diseases - Liver cirrhosis, Alcoholic and Non -Alcoholic Liver Diseases, Hepatitis, Jaundice, and Ascites.

Describe the clinical features of Hypothyroidism and hyperthyroidism.

Describe the clinical features of Diabetes Mellitus and Pancreatitis.

Describe the clinical features of Common neurologic diseases: Parkinson's disease, Stroke, Bell's Palsy,

| | Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic), and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical, and Lumber Spondylosis. Describe the clinical features of Diseases of bone and Joints - Osteoarthritis, Osteoporosis. Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome, and Muscular diseases - Muscular Dystrophy. Describe the clinical features of Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, and Gout. | | |
|-------------|---|--|----|
| CO4,CO6,CO8 | 11. Field visits:Visit to Pathologylaboratory and Diagnosticimaging center. | Visit: Students are instructed to visit at least one pathology laboratory and one imaging center; observe the procedures followed.Record the observations and submit the report to the instructor. | 10 |

 $\ensuremath{\texttt{\#}}$ Hours indicated are included in calculations of Table 3 and 4

Table 5- Teaching learning method

| Sr No | Teaching learning methods in the course | No of Activities |
|-------|---|------------------|
| 1 | Lecture | 2 |
| 2 | Lecture with Power point presentation | 222 |
| 3 | Lecture & Group Discussion | 133 |
| | | |

| 4 | Lecture with Video clips | 45 |
|----|---------------------------|----|
| 5 | Discussions | 16 |
| 6 | Brainstorming | 3 |
| 7 | Inquiry-Based Learning | 4 |
| 8 | PBL | 14 |
| 9 | CBL | 9 |
| 10 | Project-Based Learning | 16 |
| 11 | Team project work | 2 |
| 12 | Flipped classroom | 4 |
| 13 | Blended Learning | 3 |
| 14 | Edutainment | 2 |
| 15 | Simulation | 1 |
| 16 | Role plays | 10 |
| 17 | Self-directed learning | 6 |
| 18 | Problem solving method | 1 |
| 19 | Recitation | 31 |
| 20 | Tutorial | 3 |
| 21 | Presentations | 3 |
| 22 | X ray identification | 2 |
| 23 | Case diagnosis | 3 |
| 24 | Lab report interpretation | 18 |
| 25 | Demonstration | 2 |
| 26 | Demonstration bedside | 15 |
| 27 | Demonstration Lab | 1 |

These are overall teaching learning methods listed in Table 3 and 4. Teachers can select the best possible method amongst the given methods as per objective, available time etc.

Table 6: Assessment Summary: Assessment is subdivided in A to H points

6 A-Number of Papers and Marks Distribution

| Subject | | | | | | | | |
|---------|--|--|-----------|------|----------|----|-----|-------|
| Code | | | Practical | Viva | Elective | IA | Sub | Grand |

| | | | | | | | Total | Total |
|-------------|---|-----|-----|----|---|----|-------|-------|
| AyUG- RN | 2 | 200 | 100 | 70 | - | 30 | 200 | 400 |

6 B - Scheme of Assessment (formative and Summative)

| PROFESSIONAL | DURATION OF PROFESSIONAL COURSE | | | | | |
|--------------|---------------------------------|------------------------------|------------------------------|--|--|--|
| COURSE | First Term (1-6 Months) | Second Term (7-12 Months) | Third Term (13-18 Months) | | | |
| Second | 3 PA & First TT | 3 PA & Second TT | 3 PA & UE** | | | |

PA: Periodical Assessment; TT: Term Test; UE: University Examinations.

** University Examination shall be on entire syllabus

6 C - Calculation Method for Internal assessment Marks

| | | PERIODIO | CAL ASSES | | | CRM SMENT | | |
|----------|---|---|-----------------|--------------------------|--|--|----------------------------|------------------------------|
| | A 3 | В | С | D | E | F | G | Н |
| TERM | 1 (15 Marks) | 2 (15 Marks) | 3 (15 Marks) | Average (A+B+C/ 3) | Converted to 30 Marks (D/15*30) | Term Test (Marks converted to 30) | Sub Total _/60 Marks | Term Ass essment (/30) |
| FIRST | | | | | | | E+F | (E+F)/2 |
| SECOND | | | | | | | E+F | (E+F)/2 |
| THIRD | | | | | | NIL | | Е |
| Final IA | Average of | Three Term | Assessment | Marks as Sh | own in 'H' C | olumn. | • | |
| | *Select an I for Periodic Theory (100 | Maximum Marks in Parentheses *Select an Evaluation Method which is appropriate for the objectives of Topics from the Table 6 D for Periodic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert to 30 marks. | | | | | | |

6 D - Evaluation Methods for Periodical Assessment

| S. No | Evaluation Methods |
|-------|---|
| 1 | Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3 |

Evaluation Methods in MSE

- 1. Practical / Clinical Performance
- 2. Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
- 3. Open Book Test (Problem Based)
- 4. Summary Writing (Research Papers/ Samhitas)
- 5. Class Presentations; Work Book Maintenance
- 6. Problem Based Assignment

7. Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)

- 8. Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities,
- Sports or Other Activities which may be decided by the department).

9. Small Project etc.

II PROFESSIONAL BAMS EXAMINATIONS AyUG-RN PAPER-1

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory

| | | Number of Questions | Marks per question | Total Marks |
|-----|---------------------------------|------------------------|--------------------|-------------|
| Q 1 | MULTIPLE CHOICE QUESTIONS (MCQ) | 20 | 1 | 20 |
| Q 2 | SHORT ANSWER QUESTIONS (SAQ) | 8 | 5 | 40 |
| Q 3 | LONG ANSWER QUESTIONS (LAQ) | 4 | 10 | 40 |
| | | | | 100 |

Similar for Paper II

6 F Distribution of theory examination

| Paper 1 Fundamental Principles of Vikriti Vigyan | | | | | | | | | |
|--|---|-----------|------------|-----------------|------------------|----------------------|--|--|--|
| Sr. No | A List of Topics | B Term | C Marks | MCQ (1 Mark) | SAQ (5 Marks) | LAQ (10 Marks) | | | |
| 1 | 1. Roga nidana – Pathophysiology and clinical diagnosis | 1 | 43 | No | Yes | No | | | |
| 2 | 2. Pareeksha | 1 | - | Yes | Yes | Yes | | | |
| 3 | 3. Methods of Rogi pareeksha | 1 | | No | Yes | Yes | | | |
| 4 | 4. Sapeksha nidana - Vyavacchedaka nidana | 1 | | No | Yes | Yes | | | |
| 5 | 5. Upashaya/ Anupashaya | 1 | | Yes | Yes | No | | | |
| 6 | 6. Dosha Vikriti | 1 | | Yes | Yes | Yes | | | |
| 7 | 7. Doshagati and Rogamarga | 1 | | Yes | Yes | Yes | | | |
| 8 | 8. Srotodushti | 1 | | Yes | Yes | Yes | | | |
| 9 | 9. Concept of Ama | 1 | | Yes | Yes | Yes | | | |
| 10 | 10. Assessment of Ama | 1 | | Yes | Yes | No | | | |
| 11 | 11. Sthana samshraya – Poorvaroopa | 1 | 49 | No | Yes | Yes | | | |
| 12 | 12. Dushya dushti | 1 | | Yes | Yes | Yes | | | |
| 13 | 13. Samprapti | 1 | 1 | No | Yes | Yes | | | |
| 14 | 14. Rupa | 1 | 1 | Yes | Yes | Yes | | | |
| 15 | 15. Vyadhinamakarana | 1 | | Yes | Yes | No | | | |
| 16 | 16. Vyadhi | 1 | 1 | Yes | Yes | Yes | | | |

| 17 | 17. Ashtanindita (Endocrine disorders) | 1 | | Yes | Yes | No |
|-----|---|---|-----|-----|-----|-----|
| 18 | 18. Janapadodhwamsa vikara (Pandemic disorders) | 1 | | Yes | Yes | No |
| 19 | 19. Nidanarthakara Vyadhi, Vyadhisankara | 1 | | Yes | Yes | No |
| 20 | 20. Vyadhikshamatva | 1 | | Yes | Yes | Yes |
| 21 | 21. Rogi bala Pareeksha | 1 | | Yes | Yes | No |
| 22 | 22. Dhatu Paka | 1 | | Yes | Yes | Yes |
| 23 | 23. Infection and Nutritional disorders | 1 | 8 | Yes | Yes | No |
| 24 | 24. Upadrava | 2 | | Yes | Yes | No |
| 25 | 25. Arishta | 2 | | Yes | No | No |
| 26 | 26. Vyadhi bala pareeksha | 2 | | Yes | Yes | No |
| 27 | 27. Sadhyasadhyatva – Prognosis | 2 | | Yes | Yes | No |
| 28 | 28. Digital health and Artificial intelligence in the context of Roganidana | 2 | | Yes | No | No |
| Tot | al Marks | | 100 | | | |

| Paper 2 Vyadhi Vigyan, contemporary understanding and updates | | | | | | |
|---|---|-----------|------------|-----------------|------------------|----------------------|
| Sr. No | A List of Topics | B Term | C Marks | MCQ (1 Mark) | SAQ (5 Marks) | LAQ (10 Marks) |
| 29 | 1. Agnimandya – Ajeerna, Anaha, Adhmana, Atopa | 2 | 43 | Yes | Yes | Yes |
| 30 | 2. Chhardi | 2 | | Yes | Yes | No |

| 31 | 3. Amlapitta | 2 | | Yes | Yes |
|----|----------------------------------|---|----|-----|-----|
| 32 | 4. Shoola | 2 | - | Yes | Yes |
| 33 | 5. Atisara, and Pravahika | 2 | _ | Yes | Yes |
| 34 | 6. Grahani | 2 | _ | No | Yes |
| 35 | 7. Visuchika, Alasaka, Vilambika | 2 | - | Yes | Yes |
| 36 | 8. Common GIT diseases | 2 | | Yes | Yes |
| 37 | 9. Mutrakrichhra | 2 | | Yes | Yes |
| 38 | 10. Mutraghata | 2 | _ | Yes | Yes |
| 39 | 11. Common Urinary diseases | 2 | - | Yes | Yes |
| 40 | 12. Hikka | 2 | - | Yes | Yes |
| 41 | 13. Shwasa | 2 | _ | Yes | Yes |
| 42 | 14. Kasa | 2 | _ | Yes | Yes |
| 43 | 15. Rajayakshma & Shosha | 2 | - | Yes | Yes |
| 44 | 16. Common lung disorders | 2 | - | Yes | Yes |
| 45 | 17. Jwara | 2 | _ | Yes | Yes |
| 46 | 18. Masurika – Romantika | 2 | _ | Yes | No |
| 47 | 19. Fever | 2 | _ | Yes | Yes |
| 48 | 20. Pandu | 2 | _ | No | Yes |
| 49 | 21. Raktapitta | 2 | 25 | Yes | Yes |

No

Yes

Yes

Yes

No

No

No

No

No

No

Yes

Yes

No

No

Yes

No

No

Yes

Yes

| 50 | 22. Hematopoietic diseases | 2 | | Yes | Yes | No |
|----|--|---|----|-----|-----|-----|
| 51 | 23. Hridroga | 2 | | Yes | Yes | No |
| 52 | 24. Shotha | 2 | - | No | Yes | Yes |
| 53 | 25. Cardiovascular disorders | 2 | - | Yes | Yes | No |
| 54 | 26. Kamala | 2 | | No | Yes | Yes |
| 55 | 27. Udara Roga | 2 | - | No | Yes | Yes |
| 56 | 28. Hepatobiliary diseases | 2 | - | Yes | Yes | No |
| 57 | 29. Kushtha - Maha Kushtha & Kshudra Kushtha (According to Charaka) | 3 | - | No | Yes | Yes |
| 58 | 30. Sheetapitta | 3 | - | No | Yes | Yes |
| 59 | 31. Shwitra | 3 | - | No | Yes | Yes |
| 60 | 32. Visarpa | 3 | - | No | Yes | Yes |
| 61 | 33. Skin diseases | 3 | - | Yes | Yes | No |
| 62 | 34. Galaganda | 3 | | Yes | No | No |
| 63 | 35. Thyroid disorders | 3 | - | Yes | Yes | No |
| 64 | 36. Sthoulya – Karshya | 3 | 32 | No | Yes | Yes |
| 65 | 37. Obesity | 3 | - | Yes | Yes | No |
| 66 | 38. Prameha | 3 | - | No | Yes | Yes |
| 67 | 39. Diabetes Mellitus and Pancreatitis | 3 | - | Yes | Yes | No |

| 68 | 40. Vatavyadhi | 3 |
|----|---|---|
| 69 | 41. Snayugata vata | 3 |
| 70 | 42. Common neurologic and spine disorders | 3 |
| 71 | 43. Sandhigatavata and Asthi majja gata vata | 3 |
| 72 | 44. Diseases of bone, joints, and muscles | 3 |
| 73 | 45. Amavata | 3 |
| 74 | 46. Vatarakta | 3 |
| 75 | 47. Immunological & Metabolic disorders | 3 |
| 76 | 48. Klaibya & Vandhyatva | 3 |
| 77 | 49. Sexual dysfunction and Infertility | 3 |
| 78 | 50. Unmada & Apasmara | 3 |
| 79 | 51. Vishada | 3 |
| 80 | 52. Murchha, and Sanyasa | 3 |
| 81 | 53. Common Psychiatric diseases | 3 |
| 82 | 54. Phiranga and Upadamsha | 3 |
| 83 | 55. Syphilis & Gonorrhoea | 3 |
| 84 | 56. Krimiroga | 3 |
| 85 | 57. Clinical presentation of common parasitic disorders | 3 |
| | | |

| No | Yes | Yes |
|-----|-----|-----|
| No | Yes | Yes |
| Yes | Yes | No |
| No | Yes | Yes |
| Yes | Yes | No |
| No | Yes | Yes |
| No | Yes | Yes |
| Yes | Yes | No |
| Yes | No | No |
| Yes | Yes | No |
| | | |

| 86 | 58. Khalitya & Palitya | 3 | | Yes | No | No | |
|------|------------------------|---|-----|-----|----|----|--|
| 87 | 59. Shleepada | 3 | | Yes | No | No | |
| 88 | 60. Tuberculosis | 3 | | | | | |
| Tota | al Marks | | 100 | | | | |

| Paper No:1 | | |
|-------------|--|--|
| Question No | Type of Question | Question Paper Format |
| Q1 | Multiple choice Questions 20 Questions 1 mark each All compulsory Must know part - 15 MCQ Desirable to know - 3 MCQ Nice to know part - 2 MCQ | Pareeksha S. Upashaya/ Anupashaya T. Doshagati and Rogamarga Dosha Vikriti Sortodushti Ocncept of Ama Concept of Ama Dushya dushti Dushya dushti Vyadhinamakarana Vyadhi Vyadhi Yyadhia (Endocrine disorders) Ashtanindita (Endocrine disorders) Ashtanindita (Endocrine disorders) Nidanarthakara Vyadhi, Vyadhisankara O. Vyadhikshamatva P. Nidanarthakara Vyadhi, Vyadhisankara O. Vyadhikshamatva Sime and Nutritional disorders Sime and Nutritional disorders Arishta Sime and Nutritional disorders Sime and Artificial intelligence in the context of Roganidana |
| Q2 | Short answer Questions Eight Questions 5 Marks Each All compulsory Must know - 7 SAQ Desirable to know - 1 SAQ No questions on Nice to know | I. Roga nidana – Pathophysiology and clinical diagnosis / 2. Pareeksha I1. Sthana samshraya – Poorvaroopa / 8. Srotodushti / 12. Dushya dushti / 7. Doshagati and Rogamarga / 6. Dosha Vikriti I3. Samprapti / 16. Vyadhi / 19. Nidanarthakara Vyadhi, Vyadhisankara / 17. Ashtanindita (Endocrine disorders) / 14. Rupa 20. Vyadhikshamatva / 21. Rogi bala Pareeksha / 18. Janapadodhwamsa vikara (Pandemic disorders) / 19. Nidanarthakara Vyadhi, Vyadhisankara / 22. Dhatu Paka 26. Vyadhi bala pareeksha / 27. Sadhyasadhyatva – Prognosis / 24. Upadrava 23. Infection and Nutritional disorders 10. Assessment of Ama / 9. Concept of Ama 5. Upashaya/ Anupashaya |

| Q3 | Long answer Questions Four Questions 10 marks each All compulsory All questions on must know. No Questions on Nice to know and Desirable to know | 4. Sapeksha nidana - Vyavacchedaka nidana / 3. Methods of Rogi pareeksha / 12. Dushya dushti / 6. Dosha Vikriti / 2. Pareeksha 11. Sthana samshraya – Poorvaroopa / 14. Rupa 9. Concept of Ama / 22. Dhatu Paka / 8. Srotodushti / 7. Doshagati and Rogamarga 4. 20. Vyadhikshamatva / 22. Dhatu Paka |
|-------------|---|--|
| Paper No:2 | 1 | [|
| Question No | Type of Question | Question Paper Format |
| Q1 | Multiple choice Questions 20 Questions 1 mark each All compulsory Must know part - 15 MCQ Desirable to know - 3 MCQ Nice to know part - 2 MCQ | Agnimandya – Ajeerna, Anaha, Adhmana, Atopa / 2. Chhardi Amlapitta / 4. Shoola / 7. Visuchika, Alasaka, Vilambika S. Atisara, and Pravahika / 8. Common GIT diseases 13. Shwasa / 15. Rajayakshma & Shosha / 12. Hikka / 14. Kasa I6. Common lung disorders 11. Common Urinary diseases 17. Jwara / 19. Fever / 18. Masurika – Romantika 25. Cardiovascular disorders / 22. Hematopoietic diseases 28. Hepatobiliary diseases 33. Skin diseases 39. Diabetes Mellitus and Pancreatitis 42. Common neurologic and spine disorders 44. Diseases of bone, joints, and muscles / 47. Immunological & Metabolic disorders 48. Klaibya & Vandhyatva / 49. Sexual dysfunction and Infertility 51. Vishada / 50. Unmada & Apasmara 57. Clinical presentation of common parasitic disorders / 52. Murchha, and Sanyasa 54. Phiranga and Upadamsha / 55. Syphilis & Gonorrhoea 57. Clinical presentation of common parasitic disorders / 59. Shleepada / 56. Krimiroga / 60. Tuberculosis |

| Q2 | Short answer Questions Eight Questions 5 Marks Each All compulsory Must know - 7 SAQ Desirable to know - 1 SAQ No questions on Nice to know | S. Atisara, and Pravahika / 1. Agnimandya – Ajeerna, Anaha, Adhmana, Atopa / 2. Chhardi / 8. Common GIT diseases / 6. Grahani / 3. Amlapitta / 4. Shoola / 7. Visuchika, Alasaka, Vilambika I1. Common Urinary diseases / 9. Mutrakrichhra / 10. Mutraghata 25. Cardiovascular disorders / 23. Hridroga / 20. Pandu / 17. Jwara / 26. Kamala / 28. Hepatobiliary diseases / 19. Fever / 21. Raktapitta / 22. Hematopoietic diseases / 24. Shotha 32. Visarpa / 31. Shwitra / 27. Udara Roga / 29. Kushtha - Maha Kushtha & Kshudra Kushtha (According to Charaka) / 33. Skin diseases / 26. Kamala / 28. Hepatobiliary diseases / 30. Sheetapitta 40. Vatavyadhi / 44. Diseases of bone, joints, and muscles / 43. Sandhigatavata and Asthi majja gata vata / 46. Vatarakta / 42. Common neurologic and spine disorders / 45. Amavata / 41. Snayugata vata / 47. Immunological & Metabolic disorders 57. Clinical presentation of common parasitic disorders / 60. Tuberculosis 7. 13. Shwasa / 15. Rajayakshma & Shosha / 12. Hikka / 16. Common lung disorders / 14. Kasa 39. Diabetes Mellitus and Pancreatitis / 37. Obesity / 38. Prameha |
|----|---|---|
| Q3 | Long answer Questions Four Questions 10 marks each All compulsory All questions on must know. No Questions on Nice to know and Desirable to know | 1. 13. Shwasa / 5. Atisara, and Pravahika / 1. Agnimandya – Ajeerna, Anaha, Adhmana, Atopa / 6. Grahani / 4. Shoola / 14. Kasa 2. 20. Pandu / 17. Jwara / 38. Prameha / 21. Raktapitta / 36. Sthoulya – Karshya / 24. Shotha 3. 32. Visarpa / 31. Shwitra / 27. Udara Roga / 29. Kushtha - Maha Kushtha & Kshudra Kushtha (According to Charaka) / 26. Kamala / 30. Sheetapitta 4. 40. Vatavyadhi / 43. Sandhigatavata and Asthi majja gata vata / 46. Vatarakta / 41. Snayugata vata |

6 H Distribution of Practical Exam

| .No | Heads | Marks |
|-----|---|-------|
| 1 | Spotting/ Identification: (10 Questions X 3 Marks = 30 Marks): (Note: Minimum of one spotting should be kept mandatorily from all the different heads mentioned below) | 30 |
| | X-Ray/ECG/ Clinical sign picture/ Slide/ Diagnostic report/ Causative factors | |
| | X-Ray (Assessment format): | |
| | On a given X-Ray film (Any of the below): | |
| | Comment on inspiration and rotation (chest), position, penetration or exposure, and artifacts in a given X-Ray film Find out the abnormal findings or sign that indicates a specific condition (By assessing size, shape, density, and location of structures) – Airway/ Bones and soft tissue/ Cardiac/ Diaphragm/ Effusion/ Gastric bubble/ Hila and mediastinum) ECG (Assessment format): On a given Electro Cardio Gram (Any of the below): Determine and comment on rhythm and rate (Paper and pencil method/ Caliper method/ 10-times method/ 1500 method) P wave interpretation (Location/ Amplitude/ Duration/ Configuration/ Deflection) QRS complex interpretation (Location and deflection) ST segment interpretation (Location/ Amplitude/ Configuration/ Deflection) T wave interpretation (Location/ Amplitude/ Configuration/ Deflection) | |
| | Clinical sign/ image or picture (Assessment format): | |
| | On a given image of a patient with sign (Any of the below): Identify the sign Possible aetiologies behind the case Possible investigations for further confirmation of a case Differential diagnosis Diagnose the condition or disease associated with the sign | |
| | Slide (Assessment format): | |
| | Identify and mention the provisional diagnosis of (Any of the below): | |
| | Haematology (Peripheral blood smear) Histopathology (Lung and trachea/ Blood, Spleen and lymph/ Heart and vessels/ Glands/ Liver) Stool microscopy (Ova, Cyst, Pus cells) | |

| | Urine microscopy (Epithelial cells, RBCs, Leukocytes, Casts, Crystals) Microbiology (Bacterial identification – Shape, Gram+ve/ Gram –ve) Parasitology (Slide/ Specimen) Diagnostic report (Assessment format): Interpret the report and mention the provisional diagnosis (Any of the below): Hemogram Liver Function Test (LFT) Renal Function Test (RFT) Diabetic profile Thyroid profile Lipid profile Causative factors/ Hetu (Assessment format): Mention the disease or diseases that are associated with the cause or hetu (Shown as an object/ model/ specimen/ picture) with brief justification (Any of the below): Any specific diet Any specific regimen Any specific factor mentioned for causing a disease | |
|---|---|----|
| 2 | Long Case: History taking, Examination, Investigation (Order and interpretation), Differential Diagnosis, Provisional Diagnosis (1 Case X 40 Marks = 40 Marks) a. History taking (Including communication skills) - 10 Marks History taking should cover the following points: AturaVivara (Basic patient details) Pradhana Vedana with Kala prakarsha (Chief complaints with duration) Vartamana vyadhi vruttant (History of present illness) Poorva vyadhi Vrittanta (Past illness) Kula vruttanta (Family history) Chikitsa Vruttanta (Personal history) – Ahara, Vihara, Vyasana, Vyayama shakti, Mala pravritti, Mutra pravritti, Raja pravritti, Koshtha, Nature of work and duration of work, Emotional makeup, and Social Relation. | 40 |
| | b. Examination & Order and interpretation of investigations – 20 Marks The examination should include the following points: General examination including Ashtasthana pareeksha Systemic examination - Pratyaksha and Anumana Pariksha/ Panchajnanendriyataha Pareeksha (Affected system/ systems), Sroto pareeksha and Mana pareeksha | |

| | Investigations should include the following points: • Ordered investigation to patient Any further comment on the previously ordered investigations and any further suggestions Interpretation of ordered investigation to the relevant case c. Differential Diagnosis, Provisional Diagnosis, and Final diagnosis. – 10 Marks Differential diagnosis and diagnosis (Vyavachedaka nidana and vyadhi vinischaya) should include the following: Group of suspicious diseases based on your knowledge on Ayurveda and contemporary science against your observation on patient Justification for inclusion and exclusion of diseases based on pratyatma lakshana Arriving at a final diagnosis based on the clinical acumen Drafting the samprapti ghataka (Involvement of dosha, dushya, indriya, manas, agni, koshta, srotas, srotodushti prakara, udbhava sthana, sanchara sthana vyakta sthana, rogamarga, upadrava, arishta, sadhyasadhyata) | |
|---|--|----|
| 3 | Demonstration: Clinical examination on the simulator or a patient or Simulated patient (SP) (1 Demonstration X 30 Marks = 30 Marks): The student will be given a specific case or a scenario (other than the case given for long case taking) and asked to perform the examination of a particular system as a whole or a part of the examination such as inspection or palpation or percussion or auscultation or any specific tests or group of tests or elicit any particular sign for any of the following system (Only steps of examination to be written with observation and interpretation after demonstration): Respiratory system examination Cardiovascular System examination Nervous system examination Locomotor system examination Integumentary system examination | 30 |
| 4 | Viva mark distribution and basic instructions Conceptual and theoretical questions: MK: | 70 |

Pareeksha, Dosha Vikr iti, Dhatu and Sroto vaigunya, Ama, Nidana Panchaka, Kriyakala, Vyadhi, Vyadhikshamatwa, Dhatu Paka etc. Annavaha, Pureeshavaha, Pranavaha, Mutravaha, Rasavaha, Raktavaha, Medovaha, Vatavyadhi, Snayugata, Sandhigata vikara etc. (**20 Marks**)

DK:

Rogi and Roga Bala pareeksha, Doshagata and Rogamarga, Nidanarthakara roga, Vyadhi namakarana, Sadyasadyata, Upadrava etc. Common GIT diseases, Common Urinary diseases, Common lung disorders, Fever, Hematopoietic diseases, Cardiovascular disorders, Hepato-biliary disorders, Skin diseases, Thyroid disorders, Obesity, Metabolic diseases, Common neurologic and spine disorders, Diseases of bone, joints, and muscles, Immunological & Metabolic disorders, Common parasitic disorders, Tuberculosis etc. (**10 Marks**)

Link to existing literature and critical thinking:

MK:

Pareeksha, Dosha Vikr iti, Dhatu and Sroto vaigunya, Ama, Nidana Panchaka, Kriyakala, Vyadhi, Vyadhikshamatwa, Dhatu Paka etc.Annavaha, Pureeshavaha, Pranavaha, Mutravaha, Rasavaha, Raktavaha, Medovaha, Vatavyadhi, Snayugata, Sandhigata vikara etc. (**20 Marks**)

DK:

Rogi and Roga Bala pareeksha, Doshagata and Rogamarga, Nidanarthakara roga, Vyadhi namakarana, Sadyasadyata, Upadrava etc. (**10 Marks**)

Viva on activity book:

Questions to be asked as per the heads provided in the activity book (10 Marks)

Basic instructions:

Number of questions: There must be a total minimum of 10 questions and a maximum of 15 questions from both examiners.

1. The questions asked during a viva should be relevant, thought-provoking, and designed to assess the candidate's understanding, knowledge, and critical thinking skills.

2. Breadth and depth: The questions should cover a wide range of topics related to both the papers as well as activity and practical with equal importance, ensuring that they have a comprehensive understanding, critical thinking, and analysis.

3. Open-ended: Questions should be open-ended rather than requiring simple yes/no answers. This allows the candidate to demonstrate their understanding and ability to provide detailed explanations and justifications.

| Iarks | 200 |
|--|-----|
| Internal assessments | 30 |
| | |
| Desirable to Know category by the examiner. | |
| 10. No questions will be asked from Nice to know category. However, 70% of the questions are to be asked from Must Know category and 30% from the | |
| | |
| difficult or intimidating. | |
| 9. Balance: The questions should strike a balance between being challenging and fair. It should push the candidate's limits without being excessively | |
| 0. Delence: The questions should strike a holence between heirs all 11. | |
| The goal is to assess their independent thinking and understanding. | |
| provide the candidate with clues or guide them towards a specific answer. | |
| 8. Avoid leading questions: It is important to avoid leading questions that | |
| defend, respond to challenges, and think on their feet. | |
| probe deeper into the candidate's responses. This helps assess their ability to | |
| 7. Follow-up questions: It can be effective to ask follow-up questions to | |
| knowledge and understanding of relevant literature in contemporary science. | |
| 6. Link to existing literature: Some questions can explore the candidate's | |
| alternative perspectives. | |
| critically, analyze the subject, and findings, and identify limitations or | |
| 5. Critical thinking: The questions should encourage the candidate to think | |
| knowledge and then ability to apply it. | |
| within their syllabus. This helps evaluate their grasp of foundational knowledge and their ability to apply it. | |
| candidate's understanding of key concepts, theories, and methodologies | |
| 4. Conceptual and theoretical: Some questions should focus on the | |

| S.No | Book | Resources Srikanta Murthy KR. Madhava Nidanam (Rogaviniscaya) of Madhavakara. Varanasi: Chaukhambha Orientalia; 2013 | | | |
|------|---|--|--|--|--|
| 1 | 1. Madhava Nidana | | | | |
| 2 | 2. Charaka Samhita | Agnivesh, Charaka, Dridhbala . Reprint. Varanasi: Chowkhamba Sanskrit Series Office; 2009. Charaka Samhita | | | |
| 3 | 3. Susruta Samhita | Acharya YT, editor. Sushruta Samhita of Sushruta. Reprint ed. Varanasi: Chaukhambha Orientalia; 2017 | | | |
| 4 | 4. Ashtanga Hrudaya | Sadashiva HS, editor. 1st ed. Varanasi: Chaukhambha Sanskrit Sansthan; 2011. Astanga Hrudaya of Vagbhata | | | |
| 5 | 5. Ashtanga Sangraha | Vagbhata. Ashtanga Sangraha. Edited by Shivprasad Sharma. Chowkhambha Sanskrit series office, Varanasi | | | |
| 6 | 6. Roga vigyan evum vikruti vigyan | Yashwant Govind Joshi | | | |
| 7 | 7. Roganidan evum vikruti vigyan | Prof. Ajay Kumar Sharma; Chaukhambha Bharati Academy | | | |
| 8 | 8. Textbook of Ayurvediya vikrti- vijnana & Roga Vijnana | Dr. Parameswarappa S. Byadgi; Chaukhambha publications, New Delhi | | | |
| 9 | 9. Textbook of Pathology with Pathology Quick Review and MCQs | 2018; Jaypee Brothers Medical Publishers; Harsh Mohan | | | |
| 10 | 10. A guide to pathology | Jaypee Brothers Medical Publishers; Eigth edition (2005); K Chaudhary | | | |
| 11 | 11. Robbins & Cotran Pathologic Basis of Disease | 10th Edition - May 11, 2020; Kumar, Abbas, Aster; Elsevier publishers | | | |
| 12 | 12. Davidson's Principles and Practice of Medicine | 24 th Edition 2022 by Ian Penman (Editor), Stuart H. Ralston (Editor), Mark Strachan (Editor), Richard Hobson (Editor); Elsevier publishers | | | |
| 13 | 13. A textbook of pathology | N.C Dey & T. K Dey; NCBA publisher 2009 | | | |
| 14 | 14. Boyds Textbook of Pathology | 10th Edition by J R Bhardwaj, Prabal Deb (Author), Wolters Kluwer India (Publisher) | | | |
| 15 | 15. Kundu's Bedside Clinics in Medicine | 2020; KSP Udyog Publisher; Arup Kumar Kundu | | | |
| 16 | 16. P. J. Mehta's Practical Medicine | 21st Edition – 2021; The National Book Depot; Nihar P Mehta, SP Mehta, SR Joshi | | | |
| 17 | 17. Macleod's Clinical Examination | 13 th Edition, 2013 by J. Alastair Innes, Anna R. Dover, Karen Fairhurst | | | |
| 18 | 18. Clinical Methods in Medicine : Clinical Skills and Practices | 2015; Jaypee Brothers Medical Publishers; S. N. Chugh, Eshan Gupta | | | |

| 19 | 19. Chamberlain's Symptoms and Signs in Clinical Medicine | 2010; CRC Press; Andrew R. Houghton & David Gray | | |
|----|--|--|--|--|
| 20 | 20. Hutchison's Clinical Methods: An Integrated Approach to Clinical Practice | 2012; Elsevier publishers Michael Glynn, William M. Drake | | |
| 21 | 21. Bates' Guide to Physical Examination and History Taking | Lippincott Williams & Wilkins; 2016 by M.D. Bickley, Lynn S. (Author), M.D. Szilagyi, Peter G. (Author), M.D. Hoffman, Richard M. (Editor) | | |
| 22 | 22. French's Index of Differential Diagnosis An A-Z 1 | 2016; CRC Press; by Mark T. Kinirons (Editor) | | |
| 23 | 23. Savills System Of Clinical Medicine | 14 th Edition 2005; CBS Publishers; by E C Warner (Author) | | |
| 24 | 24. Todd-Sanford-Davidsohn clinical diagnosis and management by laboratory methods | 2016; Saunders publishers; by Campbell James Todd (Author) | | |
| 25 | 25. Clinical Methods In Ayurveda | 2013; Chaukhamba Orientalia; by Prof. K.R. Srikantha Murthy (Author) | | |
| 26 | 26. Clinical Diagnosis in Ayurveda (A Practical book of Ayurvedic Diagnosis in the Light of Modern Medical Science) | 2015; Chaukhamba Sanskrit Pratishthan; by M. Srinivasulu (Author) | | |
| 27 | 27. Medical Laboratory Technology | 2009; Jaypee Brothers Medical Publishers; by Ramnik Sood (Author) | | |
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|----|--|---|--|--|
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| 60 | 60. UpToDate | www.uptodate.com | | |
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| 62 | 62. DynaMed | www.dynamed.com | | |
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| 65 | 65. MedlinePlus Medical Dictionary | https://medlineplus.gov/ | | |
| 66 | 66. WebMD Symptom Checker | https://symptoms.webmd.com/. | | |
| 67 | 67. Mayo Clinic Symptom Checker | https://www.mayoclinic.org/symptom-checker/select- symptom/itt-20009075. | | |
| 68 | 68. Simulated cases EM SIM CASES | https://emsimcases.com/ | | |
| 69 | 69. Daily rounds | https://dailyrounds.org/ | | |
| 70 | 70. Prognosis | https://play.google.com/store/apps/details?id=com.medicalj oyworks.prognosis&hl=en≷=US&pli=1 | | |
| 71 | 71. PubMed Central | https://www.ncbi.nlm.nih.gov/pmc/ | | |
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Abbreviations

Assessment

| S.No | Short form | Discription | | |
|------|------------|-------------------------------|--|--|
| 1 | T-EMI | Theory extended matching item | | |
| 2 | T- EW | Theory Essay writing | | |
| 3 | T- MEQs | Theory MEQs | | |
| 4 | T-CRQs | Theory CRQs | | |
| 5 | T-CS | Theory case study | | |
| б | T-OBT | Theory open book test | | |
| 7 | P-VIVA | Practical Viva | | |
| 8 | P-REC | Practical Recitation | | |
| 9 | P-EXAM | Practical exam | | |
| 10 | PRN | Presentation | | |
| 11 | P-PRF | Practical Performance | | |
| 12 | P-SUR | Practical Survey | | |
| 13 | P-EN | Practical enact | | |
| 14 | P-RP | Practical Role play | | |
| 15 | P-MOD | Practical Model | | |
| 16 | P-POS | Practical Poster | | |
| 17 | P-CASE | Practical Case taking | | |
| 18 | P-ID | Practical identification | | |
| 19 | P-PS | Practical Problem solving | | |
| 20 | QZ | Quiz | | |
| 21 | PUZ | Puzzles | | |
| 22 | CL-PR | Class Presentation, | | |
| 23 | DEB | Debate | | |
| 24 | WP | Word puzzle | | |
| 25 | 0-QZ | Online quiz | | |

| 26 | O-GAME | Online game-based assessment | | |
|----|--------------|------------------------------|--|--|
| 27 | M-MOD | Making of Model | | |
| 28 | M-CHT | Making of Charts | | |
| 29 | M-POS | Making of Posters | | |
| 30 | C-INT | Conducting interview | | |
| 31 | INT | Interactions | | |
| 32 | CR-RED | Critical reading papers | | |
| 33 | CR-W | Creativity Writing | | |
| 34 | C-VC | Clinical video cases, | | |
| 35 | SP | Simulated patients | | |
| 36 | PM | Patient management problems | | |
| 37 | СНК | Checklists | | |
| 38 | OSCE | OSCE | | |
| 39 | OSPE | OSPE, | | |
| 40 | Mini-CEX | Mini-CEX | | |
| 41 | DOPS | DOPS | | |
| 42 | CWS | CWS | | |
| 43 | RS | Rating scales | | |
| 44 | RK | Record keeping | | |
| 45 | СОМ | Compilations | | |
| 46 | Portfolios | Portfolios | | |
| 47 | Log book | Log book | | |
| 48 | TR | Trainers report | | |
| 49 | SA | Self-assessment | | |
| 50 | РА | Peer assessment | | |
| 51 | 360D | 360-degree evaluation | | |
| 52 | TT-Theory | Theory | | |
| 53 | PP-Practical | Practical | | |
| 54 | VV-Viva | Viva | | |

Domain

| S.No | Short form | Discription | |
|------|------------|-----------------------------|--|
| 1 | СК | Cognitive/Knowledge | |
| 2 | CC | Cognitive/Comprehension | |
| 3 | САР | Cognitive/Application | |
| 4 | CAN | Cognitive/Analysis | |
| 5 | CS | Cognitive/Synthesis | |
| 6 | CE | Cognitive/Evaluation | |
| 7 | PSY-SET | Psychomotor/Set | |
| 8 | PSY-GUD | Psychomotor/Guided response | |
| 9 | PSY-MEC | Psychomotor/Mechanism | |
| 10 | PSY-ADT | Psychomotor Adaptation | |
| 11 | PSY-ORG | Psychomotor/Origination | |
| 12 | AFT-REC | Affective/ Receiving | |
| 13 | AFT-RES | Affective/Responding | |
| 14 | AFT-VAL | Affective/Valuing | |
| 15 | AFT-SET | Affective/Organization | |
| 16 | AFT-CHR | Affective/ characterization | |

T L method

| S.No | Short form | Discription | | |
|------|------------|---------------------------------------|--|--|
| 1 | L | Lecture | | |
| 2 | L&PPT | Lecture with Power point presentation | | |
| 3 | L&GD | Lecture & Group Discussion | | |
| 4 | L_VC | Lecture with Video clips | | |
| 5 | DIS | Discussions | | |
| 6 | BS | Brainstorming | | |
| 7 | IBL | Inquiry-Based Learning | | |
| 8 | PBL | PBL | | |
| 9 | CBL | CBL | | |
| 10 | PrBL | Project-Based Learning | | |
| 11 | TBL | TBL | | |
| 12 | TPW | Team project work | | |
| 13 | FC | Flipped classroom | | |
| 14 | BL | Blended Learning | | |
| 15 | EDU | Edutainment | | |
| 16 | ML | Mobile learning | | |
| 17 | ECE | ECE | | |
| 18 | SIM | Simulation | | |
| 19 | RP | Role plays | | |
| 20 | SDL | Self-directed learning | | |
| 21 | PSM | Problem solving method | | |
| 22 | KL | Kinesthetic Learning | | |
| 23 | W | Workshops | | |
| 24 | GBL | Game-Based Learning | | |
| 25 | D-M | Demo on Model | | |

| 26 | LS | Library Session | | |
|----------|-------|---------------------------|--|--|
| 27 | PL | Peer learning | | |
| 28 | RLE | Real life experience | | |
| 29 | REC | Recitation | | |
| 30 | SY | Symposium | | |
| 31 | TUT | Tutorial | | |
| 32 | PER | Presentations | | |
| 33 | РТ | Practical | | |
| 34 | XRay | X ray identification | | |
| 35 | CD | Case diagnosis | | |
| 36 | LRI | Lab report interpretation | | |
| 37 | DA | Drug analysis | | |
| 38 | D | Demonstration | | |
| 39 | D_BED | Demonstration bedside | | |
| 40 | D_L | Demonstration Lab | | |
| 41 | DG | Demonstration Garden | | |
| 42 | FV | Field visit | | |
| 43 | PRA | Practical | | |
| | | | | |
| <i>,</i> | | | | |

Course curriculum for Second Professional BAMS

(PRESCRIBED BY NCISM)



Rasashastra evam Bhaishajyakalpana (SUBJECT CODE : AyUG-RB)

(Applicable from 2021-22 batch, from the academic year 2023-24 onwards for 5 years or until further notification by NCISM, whichever is earlier)





BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110058

NCISM

II Professional Ayurvedacharya (BAMS)

Subject Code : AyUG-RB

Summary

| Total number of Teaching hours: 450 | | | | | |
|-------------------------------------|------------|-----|----------|--|--|
| Lecture hours(LH)-Theor | У | | | | |
| Paper I 75 | | 150 | 150(LH) | | |
| Paper II 75 | | | | | |
| Non Lecture hours(NLH) | -Theory | | | | |
| Paper I & II 90 | | 300 | 300(NLH) | | |
| Non Lecture hours(NLH) | -Practical | | | | |
| Paper I & II 210 | | | | | |

| Examination (Papers & Mark Distribution) | | | | | | |
|---|-----|-----------|------|----------|----|--|
| Item Theory Component Marks Practical Component Marks | | | | 5 | | |
| | | Practical | Viva | Elective | IA | |
| Paper I | 100 | 100 | - 0 | | | |
| Paper II | 100 | 100 | 70 | - | 30 | |
| Sub-Total | 200 | 200 | | | | |
| Total marks | 400 | | | | | |

Important Note:-The User Manual II BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual II before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic.

In case of difficulty and questions regarding curriculum write to cur.imp@ncismindia.org

PREFACE

Ayurvedic physician, Pranabhisara Vaidya, makes efforts for his task of management of diseases and maintenance of health. For this role his tool is Potent medicine and tactful techniques acquired from profound knowledge of classics.

Bheshaja is important in chikitsa chatushpada. Prepared personally or purchased or prescribed, the medicines must be potent. Identity, Purity, Quality, Stability, Safety and Efficacy all factors must be assessed carefully so that extensive therapeutic utility without any adverse drug reaction can be achieved. Education of Ayurvedic Pharmaceutics i. e. Ayurvediya Aushadhi Nirmana Shastra must provide foundation through guidance for academicians, Researchers, entrepreneurs and clinicians. Yogavijyana and prayogavijnyana is that expected foundation. Ayurvedic classics expect yuktijna, siddhahasta, sarva bhaishajya kovid (carak su. 20/22) physician as an outcome of studying Ayurveda.

To achieve the programme outcome of the Professional BAMS course of NCISM, this particular subject contributes a lot by providing thorough multidimensional knowledge in cognitive domain, hands on training of pharmaceutical processing in Psychomotor domain and ethical attitudes towards drug development in affective domain.

. The thought process by which Rasa Bheshaja Yogas reaches yojana- administration is very much important. Dose, Duration, Time and Route of administration, anupana all such factors are unique features of holistic Ayurvedic Practice. Acquiring details of these topics along with practical application with understanding its significance is the course objective of the subject RS& BK. The main Goal is to cater professional Competency in Ayurvedic Pharmaceutics and make them capable to select proper / effective yoga and administer it safely.

It is the need of time to make some addition in the current teaching and learning process of Rasashastra & Bhaishajya Kalpana to make it more relevant, practical and contemporary. New teaching technology tools will certainly be helpful in the effective delivery of knowledge of Rasashastra & Bhaishajya Kalpana. As per the revised regulation, the nomenclature of the subject is Ayurvediya Aushadhi Nirmana Vigyana as paper I and Ayurvediya Aushadhi Prayoga Vigyana as paper II for Second Professional BAMS course.

In this revision, NCISM has tried its best to take Rasashastra & Bhaishajya Kalpana teaching beyond the four walls of the classroom and get it connected with present global needs. For effective content delivery create interest in the subject it becomes evident to teach Rasashastra & Bhaishajya Kalpana with practical demonstrations. In order to facilitate proficiency in pharmaceutical preparation and its application in clinical practice, more non-lecture classes are allotted. Teaching methodology guidelines are provided which shall be followed while teaching, to make baseline uniformity in the process of learning. Activity-based learning will enable the internalization of the concepts and will build a strong platform while learning other subjects of

INDEX

| Course Code and Name of Course | |
|--|-----|
| Table 1- Course learning outcomes and matched PO | 5 |
| Table 2 : Contents of Course | |
| Paper 1 | 6 |
| Paper 2 | 13 |
| Table 3: Learning objectives (Theory) of Course | 21 |
| Paper 1 | 21 |
| Paper 2 | 38 |
| List of Practicals | 48 |
| Table 4: Learning objectives (Practical) | 49 |
| Practical 1 | 49 |
| Table 4a: List of Practical | 60 |
| Activity | |
| Table 5- Teaching learning method | 97 |
| Table 6: Assessment Summary: Assessment is subdivided in A to H points | 98 |
| 6 A-Number of Papers and Marks Distribution | 98 |
| 6 B - Scheme of Assessment (formative and Summative) | 98 |
| 6 C - Calculation Method for Internal assessment Marks | 99 |
| 6 D - Evaluation Methods for Periodical Assessment | 99 |
| 6 E Question Paper Pattern | 100 |
| 6 F Distribution of theory examination | 101 |
| Paper 1 | 101 |
| Paper 2 | 102 |
| 6 G Blue print of paper I & II | 103 |
| 6 H Distribution of Practical Exam | 106 |
| References Books/ Resources | 111 |
| Abbreviations | 114 |

| Course code | Name of Course |
|-------------|------------------------------------|
| AyUG-RB | Rasashastra evam Bhaishajyakalpana |

Table 1- Course learning outcomes and matched PO

| SR1 CO No | A1 Course learning Outcomes (CO) AyUG-RB At the end of the course AyUG-RB, the students should be able to- | B1 Course learning Outcomes matched with program learning outcomes. |
|-----------------|---|---|
| CO1 | Demonstrate application of principles of Ayurvediya Aushadhi Nirmana (Ayurvedic Pharmaceutics) | PO1,PO5,PO7 |
| CO2 | Demonstrate application of principles of Ayurvediya Aushadhi Prayoga Vigyana (Clinical Pharmacology) | PO1,PO5,PO7 |
| CO3 | Prepare Ayurvedic formulations in adherence to quality control parameters for raw materials, in-process and finished products | PO1,PO3,PO4,PO5, PO6,PO7,PO8 |
| CO4 | Justify rationality of selection and administration of Ayurvedic formulations | PO3,PO5,PO6,PO7, PO8,PO9 |
| CO5 | Demonstrate application of ethical, legal and regulatory aspects of manufacturing and sale of Ayurvedic formulations. | PO2,PO8,PO9 |
| CO6 | Appraise research in current and emerging trend in Ayurvedic pharmaceuticals and allied sciences. | PO7,PO9 |

| Sr. No | A2 List of Topics | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
|-----------|---|------------|-------------|------------------------|--------------------------------|
| 1 | 1.Chronological development of Ayurvediya Aushadhi Nirmana Definition, chronological development, significance and scope of Rasashastra and Bhaishajya Kalpana. Concept of Rasashala, Rasa-mandapa and Bheshajagara Concept of Rasa-Rasayana Briefing on Indians are first to prepare metal based medicines and Recent development in Ayurvedic Pharmaceuticals. | 1 | 05 | 2 | 1 |
| 2 | 2.Paribhasha (Terminology) 1. Definition and Importance of Paribhasha 2. Word Derivation- Aushadha, Bheshaja, Kalpana, Kashaya, Pancha kashaya Yoni, Samskara 3.Dravya/Varga Paribhasha- (Classical Names, English names, Chemical Composition/Formula) A) Rasa, Maharasa, Uparasa, Dhatuvarga, Upadhatu, Ratna, Uparatna, Sudhavarga, Sikatavarga, Lavanavarga, Visha, Upavisha, Kajjali, Mitrpanchaka, Dravaka Gana, B) Sandigdha(Contraversial): Vaikranta, Chapala, Rasanjana, Pushpanjana, Vahnijara, Girisindura, Kankushtha. C) Anupalabdha (Not Available): Rasaka, Sauviranjana D) Krutrima (Artificial): Sasyaka, Gandhaka, Kasisa, Rasanjana, Hingula E) Pratinidhi (Substitute) : Vajrabhave Vaikranta, Suvarna- Suvarna Makshika 4. Prakriya Paribhasha- A) Shodhana: Types of Shodhana, Samanya Shodhana, Vishesha Shodhana, Different techniques used for Shodhana, Swedana, Mardana, Dhalana, Nirvapa, Nirjaleekarana, Nimajjana, Bhavana,Bharjana B) Marana,: Definition, Importance of Marana, Types of Marana- Agnipaka Method, Putapaka Method, Kupipakwa Method, Bhanupaka Method, Swanga Sheeta C) Amrutikarana, Lohitikarana D) Sattvapatana, Shuddhavarta, Beejavarta E) Druti: Definition, Druti lakshana F) Parada Samskara: Definition, Importance, Ashtasamskara Parada Jaranaa, Murchchhana, Names of Parad-Bandhas S) Pramanikarana Paribhasha (Terms for Standardization)- A) Grahy-Agrahyattva, Siddhilakshana B) Bhasma pariksha: Varitara, Rekhapurnata, Unama, | 1 | | 8 | 4 |

| | Slakshnattva, Sukshma, Anjana Sannibha, Dantagre na Kachakacha Bhavati, Varna, Avami, Apunarbhava, Niruttha, Gata Rasattva, Nischandrattva, Niramlattva, Nirdhumattva, Jihvagre adahyamanattva, Dadhi/ Nimbu Pariksha, Puraka Paribhasha (Supplementary)- Rudra Bhaga, Dhanvantari Bhaga7) Mana-Paribhasha- A) Definition, Classical Types B) Classical and Modern- Conversion chart as per AFI, Scientific Metrology C) Essential Kala- mana. | | | | |
|---|---|---|----|---|---|
| 3 | 3.Adharbhuta Siddhanta (Application of fundamental principles) Dravya Sangrha and Samrakshana Time of drug Collection General Rules Specific time for specific plant part collection Time of the day for drug collection Collection of Pranija Dravya Place of Drug collection Bhumi mahabhuta predominance Places from where drugs should not be collected Stage of drug collection Rule of Duplication(Dwiguna Mana Ganana) Ardra and Shushka Dravya mana Dravya Sangraha Vidhi and Dravya samrakshana Rasa, Guna, Virya ,Vipaka, PrabhavaAnukta Visheshokta grahana: Considering Anukta Dravya Aushadha Namakarana: Naming a Preparation Aushadha Sevana Kala: Time of Drug Administration Saveeryata Avadhi (Shelf life of different kalpana) Aushadha Matra:Dosage / Posology Anupana & Sahapana (Adjuvant) Yougika Dravya Siddhanta(Drug Combination) | 1 | 05 | 4 | 2 |
| 4 | 4.Yantropakaranani- I (Equipments and machineries) Principles involved, currently used yantras, their correlation, utility, and Instruments used in Large scale Production Dola Yantra Valuka Yantra Puta Yantra Puta Yantra Rhalwa Yantra Darvika Yantra Ulukhala Yantra Patala Yantra Kupi Yantra Arkapatana Yantra | 1 | 05 | 6 | 4 |

| Sharava Yantra | 1 | I | I | |
|---|---|----|-----|---|
| Palika Yantra | | | | |
| Sthali Yantra | | | | |
| Sunan Yantra Swedana Yantra | | | | |
| | | | | |
| Vidyadhara Yantra Madam Madimum Grindan | | | | |
| Modern Machinery-Grinder | | | | |
| Disintegrator | | | | |
| Pulverizer | | | | |
| Powder Mixer | | | | |
| Mechanical sifter | | | | |
| Ball mill | | | | |
| Granulator | | | | |
| Dryer | | | | |
| Tablet compressing machine | | | | |
| Pills making machine | | | | |
| Coating pan | | | | |
| Polishing pan | | | | |
| End runner machine | | | | |
| Edge runner machine | | | | |
| Capsule filling machine | | | | |
| Ointment mixer | | | | |
| Tube filling machine | | | | |
| Sieves & Meshes | | | | |
| Liquid filling machine | | | | |
| Distillation plant | | | | |
| Strip packing machine | | | | |
| Pouch filling machine | | | | |
| Pyrometer | | | | |
| 5.Yantropakaranani -II (Equipments, fuel and Heating | 1 | 05 | 5 | 4 |
| Devices) | - | | C C | |
| Principle involved, importance of temperature, currently | | | | |
| used heating devices utility, quantum of heat and | | | | |
| Instruments used in Large scale Production Puta- | | | | |
| Chandra Puta | | | | |
| | | | | |
| | | | | |
| Surya Puta | | | | |
| Surya Puta Maha Puta | | | | |
| Surya Puta Maha Puta Gaja Puta | | | | |
| Surya Puta Maha Puta Gaja Puta Varaha Puta | | | | |
| Surya Puta Maha Puta Gaja Puta Varaha Puta Kukkuta Puta | | | | |
| Surya Puta Maha Puta Gaja Puta Varaha Puta Kukkuta Puta Kapota Puta | | | | |
| Surya Puta Maha Puta Gaja Puta Varaha Puta Kukkuta Puta Kapota Puta Lavak Puta | | | | |
| Surya Puta Maha Puta Gaja Puta Varaha Puta Kukkuta Puta Kapota Puta Lavak Puta Budhar Puta | | | | |
| Surya Puta Maha Puta Gaja Puta Varaha Puta Kukkuta Puta Kapota Puta Lavak Puta Budhar Puta Gorvara Puta | | | | |
| Surya Puta Maha Puta Gaja Puta Varaha Puta Kukkuta Puta Kapota Puta Lavak Puta Budhar Puta Gorvara Puta Valuka Puta | | | | |
| Surya Puta Maha Puta Gaja Puta Varaha Puta Kukkuta Puta Kapota Puta Lavak Puta Budhar Puta Gorvara Puta Valuka Puta Kumbha / Bhanda Puta | | | | |
| Surya Puta Maha Puta Gaja Puta Varaha Puta Varaha Puta Kukkuta Puta Kapota Puta Lavak Puta Budhar Puta Gorvara Puta Valuka Puta Kumbha / Bhanda Puta Musha | | | | |
| Surya Puta Maha Puta Gaja Puta Varaha Puta Kukkuta Puta Kapota Puta Lavak Puta Budhar Puta Gorvara Puta Valuka Puta Kumbha / Bhanda Puta Musha Samanya Musha | | | | |
| Surya Puta Maha Puta Gaja Puta Varaha Puta Kukkuta Puta Kapota Puta Lavak Puta Budhar Puta Gorvara Puta Valuka Puta Kumbha / Bhanda Puta Musha | | | | |

| | Sandhi Bandhan Material Koshthi- Chullika Angar Koshthi Satwapatan Bhrashtri Gas Stove Hot Plate Heating Mantle Induction Stove Hot Air Oven Muffle Furnace- Horizontal and Vertical Heating Material- Solid- Kashtha, coal(wooden / stone), Kshara, Lavana, Valuka, Shakrit, Dhanya Drava- Jala/ steam, Taila Indirect heating- Dhanya Rashi, Bhugarbha sthapana | | | | |
|---|---|---|----|---|---|
| 6 | 6.Kalpana Nirmana I (Primary & Secondary dosage forms) Definition, classification with suitable examples, reference ingredients, quantity, method of preparation, principle involved, instruments used in small and large scale production, siddhi lakshana, storage, shelf life, modern aspect of related preparation of the following Panchavidha Kashya Kalpana (Primary dosage forms): Swarasa, Kalka, Kwatha, Hima, Phanta Upaklpana (Secondary dosage forms): Kalka: Churna Kalpana Kwatha: Pramathya Kalpana, Paniya Kalpana, Ushnodaka, Ksheera Paka Kalpana, Laksha Rasa, Mamsa Rasa Hima Kalpana : Mantha Kalpana, Udaka Kalpana, Panaka Kalpana Phanta Kalpana: Arka | 1 | 10 | 6 | 4 |
| 7 | 7.Kalpana Nirmana-II (Method of Preparation of different dosage forms & Dietary Supplements)) Avaleha Definition, reference, essential ingredients, general method of preparation, specific rules of avaleha preparation, importance of temperature, siddhi lakshana, shelf life with examples i.e Vasavaleha, Kushmanda avaleha, research updates on Avaleha Kalpana, market survey Sneha Kalpana Aims of Sneha Kalpana, definition, reference, essential ingredients, general method of preparation, specific rules of sneha preparation, importance of temperature of temperature, siddhi lakshana, types of sneha preparation, importance of temperature, gritha murchana, taila murchana, sneha siddhi lakshana, types of snehapaka, Patra(Gandha Paka), time duration to cook sneha preparation, shef life with examples Phala grita and | 1 | 10 | 5 | 4 |

| | Ksheerabala Bala Taila, Concept of Avartana, Research updates on snehakalpana, market survey Sandhana Kalpana Introduction, significance of sandhana kalpana, classification, difference between Madhya and Shukta Kalpana, general method of preparation, essential ingredients, anukta Mana, sandhana vidhi, observations, Burnig candle test, Lime water Test, important factors in Asava Arishta Preparation like sandhanan patra selection, place for fermentaion, importance of room temperature, sandhana kala, adding of honey, bhasma, prakshepaka dravya, difference between Asava & Arishta, shelf life and alcohol % with examples Draksharista and Usheerasava, Research updates on Sandhana Kalpana, market survey Pathya Kalpana Definition , significance of Pathya, types, general, method of preparation Manda, Peya, Yavagu, Vilepi, Anna or Odana Kalpana, Krashara, Yusha, Takra, Khada, Kambalika, Raga, Shadava, Related Research updates, Market survey of Dietary Supplements | | | | |
|---|---|---|----|----|---|
| 8 | 8.Rasa Dravya Parichaya- I Synonyms, minerological identification, sources, types, grahya and agrahyata, doshas, shodhana, marana and other processing techniques, Probable Physico-chemical Changes, importance of temperature while processing , yoga, Research updates of the following Must to know Drugs Parada (mercury) Abhraka (Biotite Mica) Makshika (Chalco-pyrite) Shilajatu(Asphaltum Punjabianum) Gandhaka (Sulfur) Gairika(Red Ochre) Kankshi (Alum) Haratala (Orpiment) Manahshila (Realgar) Kampillaka(Mallotus Philippinensis) Navasadara (Ammonium chloride) Hingula (Red Cinnabar) Swarna (Gold) Rajata (Silver) Tamra (Copper) Loha (Iron) Mandur (rust iron) Vanga (Tin) Naga (Lead) Yashada (Zinc) Mukta (Pearl), Pravala (Coral) | 2 | 10 | 12 | 4 |

| | Vajra (Diamond) Kaparda (Cowries) Shukti (Oyster Shell) Shankh (Conch Shell) Godanti (Gypsum) Samudraphena (Cattle Fish bone) Kukkutanda twak (Hen's EggShell) Tankana kshara (Borax) | | | | |
|----|--|---|---|---|---|
| 9 | 9.Rasa Dravya Parichaya II Synonyms, mineralogical identification, sources, types, grahya and agrahyata, shodhana, marana and other processing techniques with probable chemical reactions, the importance of temperature, yoga, research updates of the following: Desirable to know drugs: Sasyaka (Peacock ore) Kaseesa (Green Vitriol), Gauri pashana (Arsenic oxide); Trinakanta, Akika(Agate), Sudha (Lime stone), Khatika Ajashthi; Jaharmohara (Serpentine) Dugdhapashana (Talc) | 2 | 5 | 7 | 6 |
| 10 | 10.Rasadravya Parichaya III Synonyms, Minerological Identification, sources, types, Grahya, Agrahyata, Shodhana, Marana, Probable Chemical Changes, Properties,dose, Ashuddha/Apakwa Bhasma Sevanajanya Vydhi and their shantyupaya, yoga, Research updates Nice to know drugs: Vaikrantha, Vimala (Iron Pyrite), Chapala Rasaka Anjana Kankustha Agnijara Giri Sindura (Red oxide of Hg) Mriddara shringa (Litharge) Kamsya (Bronze) Pittala (Brass) Vartaloha. Manikya (Ruby) Tarkshya (Emerald) Pushparaga (Topaz) Nilam (Sapphire) Gomeda (Zircon or Cinnamone stone) | 2 | 5 | 3 | 6 |

| Vaidurya (Cats eye) Mriga shringa (Stag horn) Sikata (Silica) | | | | |
|--|---|----|---|---|
| Vyomashma (Sangeyashab - Jade) Kousheyashma (Asbestos) Badarshama (silicate of lime) | | | | |
| 11.Kalpana Nirman -III (Method of Preparation of different dosage forms) Sharkara Kalpana | 2 | 10 | 8 | 6 |
| • General method of preparation, difference between sharkara kalpana and syrup, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example of Tulasi Arka Sharkara | | | | |
| Gudapaka | | | | |
| General Method of Preparation, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example of ManibhadraGuda, Guda Pippali | | | | |
| Lavana Kalpana | | | | |
| General Method of Preparation, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example of Narikela Lavana | | | | |
| Kshara Kalpana | | | | |
| General Method of Preparation, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example of Kadali Kshara, chincha Kshara | | | | |
| Ayskriti Kalpana | | | | |
| General Method of Preparation, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example Ayaskriti | | | | |
| Lepa Kalpana | | | | |
| General Method of Preparation, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example of | | | | |

| | Avalgunjadi Lepa, Keshavardhaka Lepa. | | | | |
|-----|---|---|-----|-------|-------|
| 12 | 12.Chaturvidha Rasayana Introduction, definition, importance, types, Procedure, necessary equipment, Shelf life with following exampleKharaliya Rasayana: Shwasakuthara rasa and Vatavidwansana rasa Parpati Rasayana: Loha parpati and sudha parpati Kupipakwa Rasayana: Rasasidhura and Rasa karpura Pottali Rasayana: Tamragarbha pottali and Loha grarbha pottali | 2 | 10 | 4 | 4 |
| 13 | 13.Current and emerging trend in Ayurvedic pharmaceuticals Cosmetics-Formulation, Regulatory ProvisionsBrief Introduction to Cosmetics-Formulation, Regulatory Provisions, Plant Layout and other factory requirements, process used in the manufacture of Cosmetics, Most commonly used cosmetic Raw materials , Control of microbial contamination in the manufacture of cosmetics and Quality Control of cosmetics, Skin Sensitization Sensitivity Testing, In vitro-Tests for Skin Irritation, Quality Control of Raw materials, Intermediates and Finished Products, Stability of CosmeticsIntroduction to Dosage formsIntroduction, Classification of Dosage forms(Solid dosage forms, Liquid dosage forms and Semisolid dosage forms), Need of dosage forms. | 3 | 5 | 3 | 4 |
| 14 | 14.GMP(Schedule T) & Regulatory aspects of Ayurvedic drugs Brief overview of following Drug and Cosmetics Act 1940 and Rules1945 import, manufacture, sale distribution of drugs and cosmetics standards of quality, misbranded, adulterated, spurious drugs and cosmetics as amended from time to time. New Acts related to Drugs and Devices. Good Manufacturing Practices (GMP) of ASU Drugs in accordance to Schedule- T Food Safety and Standards Authority of India (FSSAI) and FDA Approval Drugs. | 3 | 5 | 2 | 4 |
| Tot | al Marks | | 100 | 75 hr | 57 hr |

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Paper 2 Ayurvediya Aushadhi Prayoga Vigyana

| Sr. No | A2 List of Topics | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
|-----------|---|------------|-------------|------------------------|--------------------------------|
| 15 | 1.Aushadhi Prayoga Vigyana Introduction, Ethymology, Scope of Aushadhi Prayoga vigyanaPrashastha bheshaja Lakshana | 1 | 5 | 1 | 2 |
| 16 | 2.Single drug (Herbal & Mineral) Single drug its variety of formulations and their different indications• Chemical/phytochemical composition Pharmacodynamics and pharmacokinetics as per formulation Therapeutic properties Awasthanusara Uses(as applicable) Matra Anupana Pathyapathya Sevana Kala Kala maryada (duration of medication as applicable) Side effects of medication (as applicable) Research updates and clinical evidences for each of the following formulations Guduchi Guduchi Swarasa (Sha.Sam.Ma. Kh. Chp1/7 page 138) Guduchi Guduchi Swarasa (Sha.Sam.Ma. Kh. Chp1/7 page 138) Guduchi Ghana- Samshamani Vati (AFI Part II Page 183) Guduchi Gugulu (AFI-Part II, Page 205) Amrutadi Guggulu (AFI-Part II, Page 107) Amritarishta (AFI Part I page 6) Amalaki Amalaki Swarasa (Sha.Sam.Ma.Kha.) Amalakyadi Churna (Sha.Sam.M.Kha. Churna kalpana) Triphala Rasayana (Cha.Chi. Rasayana Adhyaya) Chyavanaprasha (AFI Part I page 37) Dhatri Lauha (AFI Part I Page 284) Amalakyadi Gutika (Sha.Sam.Ma.Kha.Kwatha Kalpana) Phalatrikadi Kwatha (B.R. Pleeha-Yakrit Rogadhikara) Bhallataka Bhallataka Guda (B.R. Arsha Rogadhikara) Bhallataka Avaleha (B.R. Arsha Rogadhikara) | 1 | 10 | 8 | 2 |

| Bhallatakadi Lepa (B.R. Kushta Rogadhikara) Bhallatakadi Kwatha (B.R. Urusthabha Rogadhikara)Note: For Bhallataka additional ashuddha, avidhi sevanajanya vyadhi and their shantyupayaGandhaka Gandhaka churna (SY page 217) Gandhaka Rasayana (AFI-Part II, Page 115) Gandhaka Druti (RRR 3rd Chapter) Gandhaka Taila (R.T. 8th Chapter) Gandhakadya Malahara (AFI-Part II, Page 165) Gandhaka Vati (B.R. Agnimandya Rogadhikara) Gairika Gairika Pradeha (Cha.Chi. Visarpa Rogadhyaya Laghusuta shekhara Rasa (AFI Part II Page 282) Gairikadya Gutikanjana (B.R. Netraroga) Gairika rasakriya (Cha.Chi.26/235) Varnakara lepa (Cha.Chi.25/117) | | | | |
|--|---|----|----|---|
| 3.Single drug(Bhasma, Shuddha & Pishti) Single drug/ formulation and its mode of action in different indications Chemical/phytochemical composition Pharmacodynamics and pharmacokinetics as per formulation Therapeutic properties Awasthanusara Uses(as applicable) Matra Anupana Pathyapathya Sevana Kala Kala maryada (duration of medication as applicable) Side effects of medication(as applicable) Side effects of medication(as applicable) Side effects of medication(as applicable) Ashuddha apakwa, avidhi sevanajanya vyadhi and their shantyupaya, Research updates and clinical evidences for each of the following formulations: Abhraka Bhasma Swarna Makshika Bhasma Swarna Bhasma Lauha Bhasma Vanga Bhasma Vanga Bhasma Yashada Bhasma Shuddha Shilajatu Shuddha Gairika | 2 | 15 | 12 | 6 |

| Shuddha Kankshi Mukta Pishti & Bhasma Pravala Pishti & Bhasma Vajra Bhasma Kaparda Bhasma Shankh Bhasma Godanti Bhasma Shuddha Tankana Shuddha Kankshi | | | | |
|---|---|----|----|---|
| 4.Aushadhi Kalpa -I (Compound formulations) •Chemical/phytochemical composition •Pharmacodynamics and pharmacokinetics as per formulation •Therapeutic properties and its mode of action in different indications, •Awasthanusara Uses(as applicable) •Matra •Anupana •Pathyapathya •Sevana Kala •Kala maryada (duration of medication as applicable) •Side effects of medication(as applicable) •Side effects of medication(as applicable) •Side effects of medication(as applicable) •Ashuddha apakwa processed, avidhi sevanajanya vyadhi and their shantyupaya, •Research updates and clinical evidences for each of the following formulations: Kharaliya Rasayana •Arogyavardhini Gutika : A.F.I I, Rasayoga, 20:4, R.R.S. Visarpa Chi. 20/106 •Kumara Kalyana Rasa : A.F.I I, Rasayoga, 20:9, B.R. Balaroga / 163 •Garbhapala Rasa : A.F.I I, Vati Gutika, 12:10,Sha.Sa.M.7/40 •Pravala Panchamrita Rasa : A.F.I I, Rasayoga, 16:37, B.R. Gulma / 139 •Anadbhairava Rasa : A.F.I I, Rasayoga, 20:31, B.R. Vatavyadhi / 506 •Laxmivilas Rasa : A.F.I I, Rasayoga, 20:39, B.R. Rasayana / 55 •Vasantakusumakara Rasa : A.F.I I, Rasayoga, 20:42, R.Sa.Sa.Rasayana Vajikarana / 80 •Vasantamalti Rasa : A.F.I I, Rasayoga, 20:41, Si.Bhai.Ma.Ma.Jwara / 60 | 2 | 15 | 16 | 4 |

| | B.R., Vatavyadhi/502 Shankha Vati : A.F.I I, Vati Gutika, 12:32, B.R. Agnimandya / 182 Shwaskuthara Rasa : A.F.I I, Rasayoga, 20:49, Yo.Ra., Swasa / Page 373 Kamadudha Rasa : A.F.I II, Rasayoga, 16:9, R.Ta.Sa. Kharaliya Rasayana / 80 Sutashekhar Rasa : A.F.I II, Rasayoga, 16:63, Yo.Ra. Amlapita / Page 125 Navayasa Loha : A.F.I II, Lauha, 17:2, Cha.Sa.Chi.16/70 Ichchhabhedi Rasa : A.F.I I, Rasayoga, 20:5, B.Ra. Udararoga / 84 Krimikuthara Rasa : A.F.I I, Rasayoga, 20:5, B.Ra. Udararoga / 84 Krimikuthara Rasa : A.F.I I, Rasayoga, 16:12, R.Ta.Sa.Kharaliya Rasayana / P. 103 Parpati Rasayana Panchamruta Parpati : A.F.I I, Parpati, 16:1, B.R.Grahani / 461 Bola Parpati : A.F.I I, Parpati, 16:2, Yo.R., Pradara / P 842 Kupipakwa Rasayana Swarna Vanga : A.F.I I, Kupipakva, 15:9, Rasamruta 3/ 95 Makaradhwaja : A.F.I I, Kupipakva, 15: 2, B. R. Vajikarana 2/ 237 Sameerpannaga Rasa : A.F.I I, Kupipakva, 15:8, A.A.G.S. Part - 4 Page 88 Pottali Rasayana Hemagarbha Pottali : A.F.I II, Rasayoga, 16:66, Rasamruta Rasavigyaniya 9/218 | | | | |
|----|--|---|----|----|---|
| 19 | 5.Aushadhi Kalpa-II (Compound Drugs/Formulations) Chemical/phytochemical composition Pharmacodynamics and pharmacokinetics as per formulation Therapeutic properties and its mode of action in different indications, Awasthanusara Uses(as applicable) Matra Anupana Pathyapathya Sevana Kala Kala maryada (duration of medication as applicable) Side effects of medication(as applicable) Improperly processed, avidhi sevanajanya vyadhi and their shantyupaya, Research updates and clinical evidences for each of the following formulations: Dashamoola Kwatha (AFI Part I Page 55) Mahamanjistadi Kwatha (AFI Part I page 59) | 3 | 15 | 14 | 2 |

| | Pushyanuga Churna (AFI-Part I, Page 113) Sudarshana Churna (AFI Part I Page 116) Lavana Bhaskara Churna (AFI-Part I, Page 114) Bilvadi Gutika (AFI Part I Page 188) Chitrakadi Gutika (AFI-Part I, Page 186) Sanjivani Vati (B.R. Jwaradhikara) Vyoshadi Vati (AFI Part III Page 253) Bala Chaturbhadra Rasa (B.R. Balarogadhikara) Simhanada Guggulu (AFI-Part I, Page 71) Yogaraja Guggulu (AFI-Part I, Page 69) Chyavanaprashavaleha (AFI Part I page 37) Dadimavaleha (Y.R. Jwaratisaradhyaya) Panchagavya Ghrita (AFI Part I Page 90) Brahmi Ghrita (AFI Part I Page 138) Neelibhringadi Taila (AFI Part I Page 138) Neelibhringadi Taila (AFI Part I Page 139) Panchaguna Taila (AFI Part I Page 145) Aravindasava (AFI Part I page 7) Ashokarishta (AFI Part I page 10) Kutajarishta (AFI Part I page 10) Gandhakadya Malahara (AFI-Part II, Page 165) Lepa Guti (AFI Part III page 232) | | | | |
|----|--|---|---|---|---|
| 20 | 6.Dosage Forms & Cosmetic Products Definition of dosage form,-Cosmetics Advantages and disadvantages of currently available dosage forms and cosmetics. Route of their administration. Research updates on modification of classical Ayurvedic dosage forms and relevant case studies. | 3 | 5 | 5 | 2 |
| 21 | 7.Nutraceuticals Introduction Types, non Indian nutraceuticals and their uses Ayurvedic Perspective of Nutraceuticals with special reference to dietic preparation, rasayana with one examples for each category , mode of action, nutritional value calculation, research updates and case studies on below mentioned category General Health : Kushmanda avaleha Pediatric Health: Preenana Modaka(Kashyapa) Geriatric Health: Chavanaprasha avaleha Reproductive Health: Phala Grita Women's health: Soubhagya shuntipaka, Shatavari grita Cardio-protective: Arjuna Ksheerapaka & Rasona ksheera paka Sports endeavor: Kharjuradi mantha Mental health: Brahma Rasayana | 3 | 5 | 6 | 1 |
| | | | | + | + |

| | Properties of Anupana Factors to be considered for selection of Anupana •Dosha •Aushadha •Roga/ Rogi •Ahara Purpose of Anupana Contraindications of Anupana Eka Kalpa Vydi anusara aneka Anupana for following yogas 1.Kaishore Guggulu: Sarangadhar Samhita , Madhyam khanda- 7/72-81, P: 1362. Yogaraj, Guggulu: Sarangadhar Samhita Madhyam khanda- 7/56-69, P:1353. Narayana Churna: Sarangadhar Samhita of Pandit Sarangadharacharya, , Madhyam khanda- 7/83-91, P:123-1244.Rasa Sindoor: RasaTarangini Hindi commentary of Sri Sadananda Sarma,Chaukhambha Surbharti, Murcchana vigyaniya Taranga, 6/203-234, P: 125-1275. Rasa Parpati: Rasa Tarangini of Sri Sadananda Sarma,Chaukhambha Surbharti Prakashan, Murcchana vigyaniya Taranga, 6/144-153, P: 116-1176.Kankayan Vati : Sarangadhar Samhita Surbharti Prakashan, Madhyam khanda, 7/50-55, P: 134-135) | | | | |
|----|---|---|----|---|---|
| 23 | 9.Aushadhi Prayoga Marga Introduction Types in ayurveda Advantages and disadvantages of each aushadhi prayoga marga and probable mode of action after administration of following dosage forms in below mentioned routes 1. Mukha (Oral Cavity): Vati, Gutika, Churna, Asava, Arishta,Kashaya, Avaleha, Khanda, Sneha (Ghrita/Taila), 2. Nasa(Nasal Route)- Dosage form used - Churna, taila, swarasa, arka 3. Karna (Through Ear)- Taila, Ghrita 4. Akshi (Through Ear)- Taila, Ghrita 5. Twak (Through Eyes) Ghrita, Taila, 5. Twak (Through Skin)- Lepa, Alepa, Pralepa, Malahara, upanaha,pradeha, abhyanga, udvartana Shirodhara - Takra Abhyanga- Sahacharadi Taila Ashti Bhagna- Murivenna Taila Vrana- Jatyadi Taila Smashru – Shankha Bhasma Kesha Ghanata- Bringaraja Taila Akala Palita – Hasthi Danta Masi Indralupta – Icchabhedi Rasa Lomashatana – Lomashatana Lepa Guda (Anal Route)- Dosage forms - Vartis, taila, ghrita, kalka, churna, kashaya 7. Mutra marga (Through urethra)- Uttara Basti with | 3 | 10 | 5 | 1 |

| | Dosage forms- Taila, ghrita 8. Yoni marga (Through vagina)- Yoni Dharana, Yoni Dhavana, Yoni Pichu, Yoni Dhoopana | | | | |
|------|--|---|-----|-------|-------|
| 24 | 10.Rational prescription along with safe dispensing of Ayurvedic formulations. Rational prescription along with safe dispensing of Ayurvedic formulations as per NABH guideline | 3 | 5 | 1 | 4 |
| 25 | 11.Traditional & Local health Practices Introduction to Traditional & Local health Practices and Government initiatives to preserve it. Brief introduction to TKDL | 3 | 5 | 2 | 4 |
| 26 | 12.Pharmacovigilance for Ayurveda drugs Pharmacovigilance and Adverse Drug Reactions (ADR) Pharmacovigilance Programme of Ayurveda, Siddha, Unani and Homeopathy (ASU & H) Drugs Central Sector Scheme and Centres of Pharmacovigilance of ASU & H Drugs | 3 | 5 | 1 | 4 |
| Tota | ll Marks | | 100 | 75 hr | 33 hr |

| Paper 1 Ayur | vediya Aushadhi Nirmana Vigyana | | | | | | | | |
|-------------------------|---|----------------------|--|--|-------------------------|--|---------------------------------------|------------|-------------------|
| A3 Course outcome | B3 Learning Objective (At the end of the session, the students should be able to) | C3 Doma in/sub | D3 Must to know / desirable to know / Nice to know | E3 Level Does/ Show s how/ Know s how/ Know | F3 T-L meth od | G3 Assessment (Refer abbreviations) | H3 Form ative/ summ ative | I3 Term | J3 Integration |
| Topic 1 1.Cl | nronological development of Ayurvediya Aushadhi Nirmana | (Lectu | re :2 hours, Nor | n lecture | e: 1 hour | rs) | | | • |
| CO1 | Explain historical evolution of Ayurvediya aushadhi nirman and Rasashastra. | СК | МК | K | L&G D | TT-Theory | F&S | I | |
| CO1 | Describe about contribution of Nagarjuna Acharya to Rasashastra | СК | МК | K | L_VC | TT-Theory | F&S | Ι | |
| CO1 | Enlist important classical texts of Rasashastra and describe their unique features in short. | СК | DK | K | L&PP T | TT-Theory | F&S | Ι | |
| CO1 | Describe structure of Pharmacy and enlist formulations prepared in pharmacy, after visiting the unit of teaching pharmacy of own campus | CC | МК | КН | L&G D | CL-PR | F | Ι | |
| CO1 | Describe Recent development in Ayurvedic Pharmaceuticals viz, new dosage forms, pharmaceutical modification techniques. | СК | DK | К | L&PP T | TT-Theory | F&S | Ι | |
| CO1 | Define Rasa and Rasayana and describe difference between Rasa and Rasayana | СК | DK | К | L&PP T | T- MEQs | F | Ι | |

| CO1 | Justify design of ancient Rasashala | AFT- VAL | NK | KH | SDL | PRN | F | Ι | |
|-------------|---|-------------|----|----|-----------------------------|------------------------------------|-----|---|---|
| Topic 2 2.P | Paribhasha (Terminology) (Lecture :8 hours, Non lecture: 4 ho | urs) | • | | | | • | | • |
| CO1 | Explain the term Paribhasha and its importance in Ayurvediya Aushadhi Nirmana. | СК | МК | К | L | T-CRQs | F | Ι | |
| CO1 | Discribe the terms Aushadha, Bheshaja, Kalpana, Kashaya, Kashaya yoni, Samskara- based on their word derivations | CC | МК | К | L | T- EW | F&S | Ι | |
| CO1 | Enlist sequentially - names of all drugs classified in the varga(group). Recite shlokas of Maharasa, Uprasa , Sadharana Rasa Varga from Rasaratnasamuchchaya. | СС | МК | K | EDU, SDL, GBL, REC | P-REC,P- ID,PUZ,O-QZ | F&S | I | |
| CO1 | Enlist and discuss Sandigdha, Krutrima, Pratinidhi and Anupalabdha dravya. | СК | DK | K | L&PP T,SD L,GB L | P-ID,CL-PR | F | I | |
| CO1,CO2 | Discribe the definition of the term Shodhana. Explain with examples different techniques used for the procedures of Shodhana. | САР | МК | КН | L&G D,L_ VC,P T | T- MEQs,P-E XAM,O-QZ,O- GAME | F&S | I | |
| CO1 | Explain the term Marana and describe its types with examples | СК | МК | К | L&PP T,LS | T-OBT | F&S | Ι | |
| CO1 | Enlist all relevent prakriya paribhasha of Amrutikarana, Lohitikarana,Sattvapatana, druti and discuss with examples | СК | DK | К | DIS,L S | PRN | F | Ι | |
| CO1,CO2 | Recite sequentially names of Parada Ashta samskara. Explain the terms Jarana Murchchhana and cite types with examples. Compare Jarana and Murchchhana. | CC | МК | KH | L_VC ,PrBL | T-EMI,T- ME Qs,PRN,M- CHT | F&S | Ι | |

| CO1 | Identify names of Parada Bandhas | СК | NK | K | LS | T-OBT | F | Ι | |
|---------------------|--|-------------|----|----|-----------------------------------|------------------------|-----|-----|--|
| CO1,CO2,CO 5 | Describe Grahyagrahya parameters used for selection of Rasadravyas. | СК | МК | SH | L&PP T,PrB L | T- EW | F&S | Ι | |
| CO1,CO2,CO 5,CO6 | Illustrate all Bhasma pariksha as per classical description. | CC | МК | КН | L_VC ,IBL, DA,D | T- MEQs,P- EXAM,CHK | S | III | |
| CO1,CO2,CO 5 | Define the word Siddhilakshani.Recite examples of classical siddhilakshani. Interpret its rationality | CE | МК | КН | L&PP T,SD L,RE C,D_ L | T- MEQs,P- EXAM | F&S | Ι | |
| CO1 | Recognise and discuss Dhanvantari Bhaga and Rudra bhaga | CC | NK | K | RLE | C-INT | F | Ι | |
| CO1 | Explain importance of Mana-paribhasha and classical types of Mana. Recall Charts of Mana . | СК | DK | КН | L&PP T,PS M | T-CRQs,P- SUR | F | Ι | |
| CO1,CO2 | Categorize parameters of Drug Standardization and develop a checklist for assessment of quality of rasadravyas | CE | DK | КН | BS,IB L,TP W,SD L | CL- PR,WP,CHK | F&S | Ι | |
| CO2 | Explain Value of selection of genuine raw material | AFT- VAL | MK | КН | DIS | DEB | F | Π | |
| CO2,CO3 | Explain importance of ethical practices for drug processing(Shodhan, Marana) | AFT- VAL | МК | K | PrBL | P-POS | F | II | |
| CO2,CO3 | Discuss and justify importance of Bhasma Pariksha | AFT- RES | МК | КН | BS | T- EW | F&S | III | |

| CO2,CO3 | Explain nalue of keen and accurate application of weights and measures in Ayurvediya Aushadhi nirmana | AFT- VAL | DK | K | L&G D | PRN | F | Π | |
|-------------|---|-------------|----------------|-----------|----------------------|--------------------|-----|---|---------------|
| Topic 3 3.A | dharbhuta Siddhanta (Application of fundamental principles |) (Lec | ture :4 hours, | Non lectu | ure: 2 hou | urs) | • | - | |
| CO1,CO2 | Elaborate fundamental principles of Ayurvediya Aushadhi Nirmana alongwith their classical references and discuss their application with classical examples of various kalpas. | CC | МК | КН | L&PP T,BS | T- EW,M- POS | F&S | Ι | |
| CO1,CO2 | Explain Dravya Samgraha vidhi. Explain types of Bhumi desha and types of drugs to be collected from paricular place & places from where Dravya should not be collected. | CC | МК | КН | L&PP T,DIS ,BS | T- EW | F&S | Ι | H-DG |
| CO1,CO2 | Describe time of Dravya collection and explain rationality behind it. | CC | МК | КН | L&PP T,BS | T- EW | F&S | Ι | H-DG |
| CO1,CO2 | Enlist parts of Sthavara & Jangama Dravyas used for Ayurvediya Aushadhi nirmana. | CC | МК | КН | L&G D,BS | T- EW | F&S | Ι | H-DG |
| CO1,CO2 | Define Samskara. Discuss role of Samskara in Ayurvediya Aushadhi Nirmana alongwith various examples. | CC | МК | КН | L&PP T,BS | T- EW | F&S | Ι | H-Sa mhita |
| CO1,CO2 | Discribe Ardra - Shushka Dravya & Anukta – Visheshokta Dravya collection principles. | CC | МК | КН | L&PP T,DIS | T- EW | F&S | Ι | H-DC |
| CO1,CO2 | Describe importance of kalpa sevan matra. Explain factors considered for deciding dosage of any drug (Ayurvedic as well as modern medicine principles). Describe Posology | CC | МК | КН | L&PP T,BS | T- EW | F&S | Ι | |
| CO1,CO2 | Explain Saveeryata Avadhi(Shelf life) of Ayurvedic dosage forms. | СК | DK | К | L&PP T,DIS | T- MEQs,P- VIVA | F&S | Ι | |
| CO1,CO2 | Discuss Yogika Dravya Sidhdhanta(Drug combination) | CC | МК | КН | L&PP T,BS | T- EW | F&S | Ι | |
| CO1 | Explain importance of Kala (Time) Samskara in Ayurvediya | СК | МК | K | L&PP | TT-Theory | F&S | Ι | |

| | Aushadhi Nirmana. Elaborate Aushadhi sevana kala mentioned in Sharangdhara samhita. Discribe chrono- Therapeutics. | | | | Т | | | | |
|-------------|--|---------|-----------------|----------|---------------|--------------------|-----|---|--|
| CO1 | Justify Aushadhi kalpa namakarana siddhanta with examples | CC | DK | KH | IBL | CL-PR | F | Ι | |
| Topic 4 4.Y | antropakaranani- I (Equipments and machineries) (Lecture | :6 hour | s, Non lecture: | 4 hours) | | | | | |
| CO1,CO5 | Choose and record contemporary machines used in Ayurvedic drug preparation. | CC | DK | K | L&PP T,DIS | T- EW | F&S | I | |
| CO1,CO5 | Discuss the pharmaceutical use of Distillation apparatus, Ball Mill, Pulveriser, End Runner, Edge Runner, Tablet compression machine, Capsule filling machine, Pouch filling machine, Liquid filling machine in Ayurvediya Aushadhi Nirmana | CC | DK | K | L&PP T,DIS | T- EW | F | I | |
| CO1,CO5 | Describe the principles behind construction and working of the classical Yantras used for Ayurvediya Aushadhi nirmana. | САР | МК | КН | L&PP T,DIS | T- MEQs,P- VIVA | F&S | I | |
| C01,C05 | Enlist categorical information about the following Yantras in the charts- Ulukhal Yantra, Patan Yantra, Jarana Yantra, Patala Yantra and Swedana Yantra. | СК | DK | К | L&PP T,DIS | T- EW | F | I | |

| CO1,CO5 | Interpret the mechanism and effect of Yantras / machines on the Physical and Chemical properties of the drug material. | CC | DK | КН | DIS,I BL | M-POS | F | I |
|-------------|---|--------|------------------|---------|-----------------------|---------------------|-----|---|
| CO1 | Enlist Ayurvediya aushadhi kalpana and equipments/yantras/ machines used for preparation of each kalpana. | СК | DK | K | L&PP T | T- EW | F | Ι |
| Topic 5 5.Y | antropakaranani -II (Equipments, fuel and Heating Devices) | (Lectu | re :5 hours, Non | lecture | : 4 hours | 3) | · | |
| CO1,CO5 | Describe the term Yantra and enlist yantras described in classics useful for aushadhi nirmana. | СК | DK | К | L&PP T | TT-Theory | F | I |
| C01,C05 | - Define the term Puta and recite its classical explanation. | СК | МК | K | L_VC ,RLE | T- EW,M- POS | F&S | I |
| C01,C05 | Produce categorical information(Size of Pit, Number of cowdunkcakes, use etc.) about following Putas viz. Mahaputa, Gajaputa, Varahputa, Kukkutaputa, Kapotputa, Lavakputa, Kumbhaputa, Bhandaputa, Valukaputa and Bhudharputa. | СК | МК | K | L&PP T,DIS ,TPW | T- EW,M- POS,COM | F&S | I |
| CO1,CO5 | Recognise the principles behind construction and working of the classical Putas. | CC | МК | КН | L&PP T,DIS ,IBL | T- EW,M- POS | F&S | Ι |
| CO1,CO5 | Identify and enlist contemporary devices used in the preparation | CC | DK | К | L&PP | T- MEQs,QZ | F&S | I |

| | of Bhasma. | | | | T,DIS ,IBL | ,M-POS | | | |
|---------|--|----|----|----|----------------------|-----------------|-----|---|--|
| CO1,CO5 | Review the temperature pattern of various Putas by referring research articles. | CC | DK | K | TPW, SDL | QZ ,M-POS | F&S | Ι | |
| C01,C05 | Compile names and significance of temperature measuring devices with reference to Puta. | СК | DK | К | DIS, ML | CL-PR,M- POS | F | Ι | |
| C01,C05 | Enlist the specific Puta used for a particular Bhasma Nirmana. | CC | DK | КН | L&PP T | CL-PR,M- POS | F | I | |
| C01,C05 | Enlist various devices used for heating during Ayurvediya Aushadhi nirmana. | СК | DK | К | L,DIS ,RLE, FV | T- EW,P-SUR | F&S | Ι | |
| CO1,CO5 | Enlist constituents needed for Samanya Musha Nirmana. | СК | DK | K | L&PP T,IBL | T- MEQs | F&S | I | |
| C01,C05 | Define the term Musha and describe uses of various types of Musha. | СК | DK | D | L_VC ,D-M | T-OBT | F&S | I | |
| C01,C05 | Enlist and discuss the material used for Sandhi Bandhan (while using Sharava and Kachakupi) | СК | NK | K | DIS,R LE | T-OBT | F | I | |
| C01,C05 | Identify and record the types of Crucibles . | СК | NK | K | L&PP T | M-POS | F | Ι | |

| CO1,CO5 | Interpret the effect of heat transformation in the material subjected to heating through Musha. | CAP | DK | KH | L&PP T,DIS ,D-M | PRN,CL-PR | F | Ι | |
|-------------|--|-------------|------------------|-----------|-----------------------|------------------|-----|---|--|
| CO1,CO5 | Recall Pakaj Utpatti Siddhant and interpret it for Agni Sannikarsha Sanskara. | CC | DK | КН | L&PP T,DIS | T- EW,CR- RED | F&S | Ι | |
| CO1,CO5 | Explain the Pharmaceutical use of the Hot plate, heating mantle, induction stove, hot air oven, muffle furnace (horizontal and vertical type) | CC | NK | КН | DIS,S DL | P-SUR,M- POS | F | Ι | |
| CO1 | Describe types of Koshthi and their uses | СК | DK | К | L | СОМ | F | Ι | |
| CO1,CO5 | Describe the Current trends in heat transfer device e.g. steam jacketed heating device, programmed muffle furnace, programmed furnace for Parpati / Pottali preparation. | CC | DK | К | L&PP T,IBL ,SDL | M-POS,COM | F | Ι | |
| CO1,CO5 | Assess and interpret the effect of fuel in quantum of heat given (time and temperature) | CC | DK | КН | DIS,P rBL | M-POS,CR- RED | F | Ι | |
| CO1,CO5 | Enlist various fuels used for heating for estimation of their heat value. | СК | NK | K | IBL,S DL | M-POS | F | Ι | |
| CO2,CO3 | Analyse and appraise use of proper heating device and fuels used for Ayurvediya Aushadhi Nirmana. | AFT- SET | DK | КН | BS | DEB | F | Π | |
| Topic 6 6.K | alpana Nirmana I (Primary & Secondary dosage forms) (Le | ecture : | 6 hours, Non lec | ture: 4 h | ours) | | • | • | |
| CO1,CO2 | | CC | МК | КН | L | T- EW,P- VIVA | F&S | П | |
| | 1. Explain Kashaya kalpana | | | | | | | | |
| | 2. Enlist the dosage form come under Panchavidha Kashaya | | | | | | | | |

| | Kalpana and their Upakalpana | | | | | | | | |
|---------|--|----|----|----|---------------------|--------------------|-----|----|--|
| | 3. Justify Primary, secondary and tertiary dosage form under Panchavidha kashaya Kalpana and their Upakalpana | | | | | | | | |
| CO1 | Define with synonyms and classify different varieties of the dosage form in Ayurvediya Aushadhi nirmana | СК | МК | K | L | T- EW,P- VIVA | F&S | II | |
| CO1 | Describe methods of preparation of the dosage form along with the principles of extraction, concentration and dilution etc. | CC | МК | KH | L&PP T | T- EW,P- VIVA | F&S | II | |
| CO1,CO2 | Explain in details about Standard Operating Procedure (SOP) of each kalpana. | CC | МК | KH | L&PP T,DIS | T- EW,P- VIVA | F&S | Π | |
| CO1,CO3 | Enlist details of the applications/administration (samanya Matra, Anupana or sahapana, indications and contraindications) of the dosage form with various examples | CC | MK | K | L&PP T | T- EW,P- VIVA | F&S | II | |
| CO1,CO6 | Assess and discuss modern day development and market trend of the dosage form | CC | DK | K | L&G D,IBL ,LS | T- MEQs,P- SUR | F&S | II | |
| CO1 | Determine the advantages and disadvantages of the dosage form | CC | DK | K | L | T- EW,P- VIVA | F&S | Π | |
| CO2 | Describe method of preparation of dosage form along with the principle involved | СК | МК | K | L&PP T,DIS | T- EW,P- VIVA | F&S | Π | |
| CO1 | Describe meaning of the term Upakalpana. Enlist panchavidha kashaya kalpana and their respective Upakalpana | СК | DK | K | L | T- MEQs,P- VIVA | F&S | Π | |
| CO1 | Explain various kalpas belonging to Various dosage forms | СК | МК | K | L_VC | P-EXAM | S | II | |

| | -Ingredients, proportion, matra, sevan vidhi if any, therapeutic uses | | | | ,PT | | | | |
|-----------------|---|-------------|---------------|--------|----------------------|-------------------------|--------|------------|--------|
| CO2 | Critically evaluate rationality behind different proportion of water used in various formulations | AFT- VAL | DK | КН | BS | P-VIVA | F&S | III | |
| Topic 7 7.Ka | lpana Nirmana-II (Method of Preparation of different dosa | ge form | s& Dietary Su | ppleme | nts)) (L | Lecture :5 hours, | Non le | cture: 4 l | hours) |
| C01,C05 | Explain the basic principles involved , processing techniques, quality control parameters used/ involved in the preparation of Avaleha, Kalpana with examples , instruments used in small and Large scale production, Research updates | CAP | МК | K | L&PP T,TP W,BL | T- EW,T-OBT | F&S | II | |
| CO1,CO5 | Explain the basic principles involved , processing techniques,quality control parameters used/ involved in the preparation of Sneha Kalpana, Kalpana with examples ,instruments used in small and Large scale production,Concept of Avartana, Research updates on Snehakalpana, Market survey | СК | МК | К | L_VC ,TUT | T- EW,P- VIVA | F&S | II | |
| CO1,CO4 | Describe the Significance of sandhana kalpana, classification, Difference between Madya and Shukta Kalpana, general method of preparation, essential ingredients, Anukta Mana, Sandhana Vidhi, observations, Burnig candle test, Lime water Test, difference between Asava and Arishta, essential knowlege of sale and clinical practice, Research updates | САР | МК | К | L_VC ,PrBL | T- EW,T-OBT | F&S | Π | |
| CO1,CO3,CO 5 | Explain Definition, significance of Pathya, types, general, method of preparation Manda, Peya, Yavagu, Vilepi, Anna or Odana Kalpana, Krushara, Yusha, Takra, Khada, Kambalika, Raga, Shadava, Related Research updates, Market survey of Dietary Supplements and Nutraceuticals | САР | МК | КН | L_VC ,RLE | T- EW,P-VIV A,P-EXAM | F&S | II | |
| Topic 8 8.Ras | sa Dravya Parichaya- I (Lecture :12 hours, Non lecture: 4 hours | urs) | | | | | | | |
| CO1 | | CC | MK | K | L&PP | T- MEQs,P- | S | Ι | |

| | Enlist synonyms of Rasadravya and explain significance of that | | | | T,D_ L | VIVA | | | |
|-----------------|---|----|----|----|----------------------|-------------------------|-----|---|--|
| CO1,CO2,CO 6 | Explain classical & Mineralogical identification and Sources of Rasadravyas | СС | МК | SH | L&PP T,PT | T- EW,P- EXAM | F&S | I | |
| CO1,CO2 | Discriminate types, Grahya-Agrahyata and Dosha of Rasadravya | CC | МК | КН | L&PP T,PT | P-VIVA,TT- Theory | F&S | Ι | |
| CO1,CO2 | Explain Shodhan and Marana and other processing techniques of the Rasa- Dravya. | CC | МК | КН | L_VC ,IBL, D | T- EW,P- VIVA,INT | F&S | Ι | |
| CO1,CO2,CO 6 | Discuss probable physical, chemical changes occuring during process & after Shodhana and Marana of Parada, Haratala, Tamra and Shankha. | CC | МК | КН | L&PP T,BS, SDL | T- EW,P-VIV A,P-EXAM | F&S | I | |
| CO6 | | CC | DK | КН | DIS,B | P-VIVA | F&S | Ι | |

| | Explain research updates about Shilajatu,Naga,Mukta and Kapardika.? | | | | S | | | | |
|-----------------|---|-------------|----|----|-------------------|--------|-----|-----|--|
| CO1,CO2,CO 6 | Discuss probable physical, chemical changes occuring after Bhavana, Puta & whole process of Bhasma nirmana from Rasadravyas | CC | МК | КН | DIS,B S | T-OBT | F&S | I | |
| CO1,CO4 | Enlist Kalpas prepared from these Rasdravyas and therapeutic imortance of that Rasadravya | СК | DK | К | IBL,S DL | PRN | F | II | |
| CO2,CO3 | Develop checklist for identification of genuine rasadravyas | AFT- CHR | МК | K | IBL | P-PS | F&S | III | |
| Topic 9 9.Ra | asa Dravya Parichaya II (Lecture :7 hours, Non lecture: 6 ho | urs) | | | | | | • | |
| CO1 | Enlist the important synonyms of Rasadravyas | CC | DK | КН | L&PP T,DIS | P-VIVA | F&S | П | |
| CO1,CO6 | Explain classical & Minerological identification and their Sources. | СК | DK | К | L&PP T,D_ L | P-VIVA | F&S | Π | |

| CO1 | Elaborate types, Grahya-Agrahyata and Dosha of Rasadravyas | СК | DK | K | L&PP T | P-VIVA | F | Π | |
|--------------------|---|-------|----|----|----------------------|------------------|-----|---|--|
| CO1,CO2 | Explain Shodhana, Marana & and other processing techniques with probable chemical reactions. | CC | MK | КН | L&PP T,DIS ,LS | T- EW,P- VIVA | F&S | П | |
| CO1,CO2 | Explain Shodhana, Marana & and other processing techniques with probable chemical reactions. | CE | DK | K | L&G D,PT | P-VIVA | F&S | Ι | |
| CO6 | Explain research updates of Kasisa,Gauripashana and Akika. | CC | DK | КН | DIS, ML | PRN | F | I | |
| CO1,CO5 | Enlist names of rasadravyas and important kalpas prepared from respective dravya. Describe therapeutic importance of that Rasadravya. | СК | DK | K | DIS,S DL | CL-PR,M- CHT | F | Π | |
| Topic 10 10 | D.Rasadravya Parichaya III (Lecture :3 hours, Non lecture: 6 h | ours) | | | | | | | |
| CO1 | Enlist Synonyms and sources. | СК | NK | K | PrBL, TPW, PER | T-OBT,M- CHT | F&S | П | |
| | | | | | | | | | |

| CO1,CO6 | Determine types, Grahya-Agrahya, properties & classical as well as Mineralogical Identification of Rasadravyas | СС | NK | К | L&PP T,DIS ,SDL | P-VIVA,CHK | F&S | П | |
|-----------------|--|----------|-----------------|----------|-----------------------|-------------------|-----|-------|--|
| CO1,CO2 | Explain Shodhana, Marana and Probable Chemical Changes. | СС | DK | К | L&PP T,IBL | PRN | F&S | Π | |
| CO6 | Explain research update of Badarashma. | СК | NK | К | DIS,L S | P-VIVA | F | П | |
| CO1,CO5 | Enlist Rasadravyas from this group and describe important kalpas with their therapeutic utility | СК | DK | K | TPW | PRN | F | II | |
| Topic 11 11.H | Kalpana Nirman -III (Method of Preparation of different de | osage fo | rms) (Lecture : | 8 hours, | , Non lee | cture: 6 hours) | | · · · | |
| CO1,CO2,CO 3 | Describe sharkara kalpana along with preparation method of Syrup.Explain therapeutic importance of prepared sharkara kalpana along with its shelf life. | CC | NK | К | L&PP T,SD L | P-VIVA | F&S | п | |
| CO1,CO2,CO 3 | Describe Gudapaka preparation method with its confirmatory tests and precautionsExplain therapeutic importance of prepared Gudapaka along with its shelf life. | CC | NK | К | L&PP T | P-VIVA | F&S | п | |
| CO1,CO2,CO 3 | Describe Lavana kalpana preparation method with its confirmatory tests and precautionsExplain therapeutic | CC | DK | К | L&PP T | T-CRQs,P- VIVA | F&S | II | |

| | importance of prepared Lavana kalpana along with its shelf life and packaging techniques. | | | | | | | | |
|-----------------|---|-----|----|----|---------------|----------------------|-----|----|---------------|
| CO1,CO2,CO 3 | Describe Kshara kalpana preparation method with its confirmatory tests and precautionsExplain therapeutic importance of prepared Kshara kalpana and Ksharasutra integration with Shalya tantra department along with its shelf life and packaging techniques. | САР | МК | КН | L&PP T | P-VIVA,TT- Theory | F&S | Π | V- SHL |
| CO1,CO2,CO 3 | Describe Ayaskriti kalpana preparation method with its confirmatory tests and precautionsExplain therapeutic importance of prepared Ayaskriti kalpana along with its shelf life and packaging techniques. | CC | NK | КН | L&PP T | P-VIVA | S | II | |
| CO1,CO2,CO 3 | Describe Lepa kalpana preparation method with its confirmatory tests and precautionsExplain therapeutic importance of prepared Lepa kalpana, integration with Kayachikitsa and Panchakarma department along with its shelf life and packaging techniques. | CC | МК | K | L&PP T | T- EW,P- VIVA | F&S | II | V-KC ,V-PC |
| Topic 12 12.0 | Chaturvidha Rasayana (Lecture :4 hours, Non lecture: 4 hour | s) | • | | - | I | • | | _ |
| C01,C02 | Describe importance and unoque features of Chaturvidha Rasayana - Kharaliya Rasayana, Parpati Rasayana, Kupipakwa Rasayana & Pottali Rasayana. | CC | МК | КН | L&PP T,IBL | T- EW,P- VIVA | F&S | П | |
| CO1,CO2 | Explain definition, types and method of preparation of Chaturvidha Rasayana. | САР | МК | D | L&PP T,PT | T- EW | F&S | Ш | |
| | | | | | 1 | | | | |

| CO1,CO2 | Determine role of Yantra, Agni & Kala for pharmaceutical | CAN | DK | КН | PT | T- EW,P- VIVA | F&S | II | |
|-----------------|--|--------|------------------|---------|-----------------------|------------------|-----|-----|--|
| | process of chaturvidha rasayana | | | | | | | | |
| CO6 | | CAN | DK | SH | L,DIS | P-VIVA | F&S | II | |
| | Explain shelf-life of Chaturvidha Rasayana. | | | | | | | | |
| CO5 | Describe chemical changes occuring during the preparation of chaturvidha rasayana and its impact on Pharmacological action of Chaturvidha Rasayana | CAN | DK | КН | L&G D,BS, SDL | CR-RED,CR- W | F | Π | |
| CO5 | Explain law of Definite proportion and proportion of Mercury and sulphur needed for preparation of sulphide of Mercury. in Chaturvidha rasayana | САР | DK | кн | BS,IB L | CL-PR | F | П | |
| Topic 13 13.0 | Current and emerging trend in Ayurvedic pharmaceuticals | (Lectu | re :3 hours, Non | lecture | : 4 hours | 3) | | | |
| CO1,CO5,CO 6 | Discuss the classfication of different dosage forms. | СК | DK | К | L&PP T,DIS | P-VIVA,M- POS | F&S | III | |
| CO1,CO5,CO 6 | Explain the need of different dosage forms. | СК | DK | К | L&PP T,DIS ,SDL | P-VIVA,M- POS | F&S | Ш | |
| C01,C05,C0 | Enlist categorical information about the cosmetics used in daily | СК | DK | К | L_VC | PRN,M-POS | F | III | |

| 6 | routine. Appreciate Ayurvedic cosmetic products. | | | | ,DIS, FV | | | | |
|-----------------|--|-------------|------------------|-----------|----------------------|------------------|-----|-----|------|
| CO1,CO5 | Appreciate Ayurvedic cosmetic products. | AFT- VAL | DK | КН | BS,Pr BL | PRN,P-SUR | F | III | |
| CO1,CO5,CO 6 | Choose and record the contemporary machineries used in the manufacture of cosmetics. | СК | NK | К | L_VC ,DIS, SDL | M-POS | F | Ш | |
| CO1,CO5,CO 6 | Enlist Quality Control parameters of cosmetics preparations. | СК | DK | K | L&PP T,DIS | P-VIVA,M- POS | F&S | III | |
| Topic 14 14.0 | GMP(Schedule T) & Regulatory aspects of Ayurvedic drugs | (Lect | ure :2 hours, No | n lecture | e: 4 hou | cs) | | | |
| CO5 | Explain the legal and regulatory aspects of manufacturing, and sale of Ayurvedic drugs. | CC | МК | K | L&PP T,IBL | CL-PR | F&S | III | |
| CO5 | Describe acts and rules mentioned in Drug & Cosmetic Act 1940 & Rule 1945 and their relevance to Ayurvedic, Siddha, Unani (ASU) drugs. | CC | МК | К | L&G D,BS | QZ | F&S | Ш | H-DG |
| CO5 | Discuss the guidelines of Food Safety and Standards Authority of India (FSSAI) and FDA. | СК | DK | K | L&G D,SD L | CL-PR | F | Ш | |
| CO3,CO5 | Determine the principles and practice of establishment of Ayurvedic pharmacy. | СК | DK | K | L&G D,TP W | P-EN,CL-PR | F | III | |
| CO5 | Discuss the NABL guidelines for testing laboratory (Chemical). | СК | NK | К | L&PP T,D_ | CL-PR,CHK | F&S | ш | |

| | | | | | L | | | | |
|---------|---|-------------|----|---|-----|-------|---|-----|--|
| CO1,CO5 | Explain long forms of these - (FSSAI) and (FDA),(CCRAS),(DCGI), (CDSCO) | СК | DK | K | L | T-EMI | S | III | |
| CO4 | Discuss ethical aspect of large scale drug preparation in Ayurvedic Pharmacies | AFT- VAL | DK | K | DIS | CL-PR | F | III | |

| Paper 2 Ayurv | ediya Aushadhi Prayoga Vigyana | | | | | | | | |
|-------------------------|---|----------------------|--|--|-------------------------|--------------------------|---------------------------------------|------------|-----------------------|
| A3 Course outcome | B3 Learning Objective (At the end of the session, the students should be able to) | C3 Doma in/sub | D3 Must to know / desirable to know / Nice to know | E3 Level Does/ Show s how/ Know s how/ Know | F3 T-L meth od | G3 Assessment | H3 Form ative/ summ ative | I3 Term | J3 Integr ation |
| Topic 1 1.Au | shadhi Prayoga Vigyana (Lecture :1 hours, Non lecture: 2 ho | ours) | | | • | | • | • | • |
| CO1 | Define Aushadhi Prayoga Vigyana and its scope and enlist prashasta bheshaja laxana | СК | МК | K | L | TT-Theory | F&S | Ι | |
| Topic 2 2.Sin | gle drug (Herbal & Mineral) (Lecture :8 hours, Non lecture: | 2 hours |) | 1 | | | • | | |
| CO1,CO2,CO 4,CO5,CO6 | Describe different dosage forms prepared out of a single herb or mineral | СК | МК | КН | L_VC | P-VIVA,COM ,TT-Theory | F&S | Ι | |
| CO1,CO2,CO 4,CO5,CO6 | Appreciate how the therapeutic efficacy varies depending on the dosage form | AFT- VAL | МК | K | L&PP T | T- EW,DEB | F&S | Ι | |

| CO1,CO2,CO 4,CO5,CO6 | Describe therapeutic efficacy of different formulations of Vishadrvya (Bhallataka), with its toxic effects and remedy. | CK | NK | K | L&G D | P-VIVA | F | Ι | |
|-------------------------|--|-------------|--------------|----|-----------------------|----------------------|-----|-----|--|
| CO1,CO5 | Describe therapeutic efficacy of different formulations of Guduchi, Gairika, Gandhaka | CC | МК | K | L&G D,PE R | P-VIVA,TT- Theory | F&S | III | |
| CO3,CO4 | Aappraise multiple factors considered for preparation of various dosage forms from a single drug and creat list of more such examples. | AFT- CHR | DK | KH | BS,IB L | СОМ | F | III | |
| Topic 3 3.Sin | gle drug(Bhasma, Shuddha & Pishti) (Lecture :12 hours, N | on lectu | re: 6 hours) | • | • | | • | | |
| CO2,CO6 | Explain chemical form/composition, Pharmacodynamics and pharmacokinetics of Abhraka, Loha and Godanti Bhasma. | CC | DK | КН | L&PP T,DIS ,IBL | P-VIVA | S | III | |
| CO1,CO2 | Explain therapeutic properties, dosage, Anupana, Pathyapathya, duration of treatment, Sevana Kala, shelf life, important Yogas of each Bhasma. | CC | МК | КН | L&PP T,TP W | T- EW,P- VIVA | F&S | III | |
| CO1,CO2 | Describe Apakwa Ashuddha Avidhi Bhasma Sevanajanya Vyadhi and their Shanti-upaya. | СК | DK | КН | DIS,B S | P-VIVA,TT- Theory | F | III | |
| CO1,CO2 | Describe in detail Amayika Prayoga (Therapeutic uses) of each Bhasma/Pishti with given references. | САР | МК | SH | L&G D,W | T- EW,P- VIVA | F&S | III | |

| CO2,CO6 | Explain research updates and clinical evidences of Swarna Bhasma, Makshika Bhasma and Shankha Bhasma. | CE | DK | K | PrBL, SDL | PRN | F&S | ш | |
|-----------------|---|---------|------------------|----|----------------------|------------------|-----|-----|--|
| Topic 4 4.Au | shadhi Kalpa -I (Compound formulations) (Lecture :16 hou | rs, Non | lecture: 4 hours |) | | | | | |
| CO1,CO2 | Describe reference, ingredients, therapeutic properties, dosage and all administration details alongwith Anupana of each formulation. | СК | МК | КН | L&PP T,BS, SDL | T- EW,P- VIVA | F&S | III | |
| CO1,CO2 | Explain Pathya Apathya, Sevana Avadhi (duration of treatment) and shelf-life of each formulation. | СС | МК | КН | L&PP T,DIS ,BS | T- EW | F&S | III | |
| CO1,CO2 | Interpret probable mode of action of each formulation as per Ayurveda. | CC | DK | КН | L&G D,BS | T- EW,P- VIVA | F&S | Ш | |
| CO2,CO3,CO 6 | Explain research updates and clinical evidences of Arogyavardhini Gutika and Gandhaka Rasayana | CE | DK | К | PrBL | P-VIVA | F&S | III | |

| CO3,CO4 | Critically analyse compound drugs for their therapeutic actions mentiond in the classics. | AFT- VAL | DK | KH | IBL | PRN | F | III | |
|---------------------|--|-------------|----------------|------------|--------------------------------------|--------------------------|-----|-----|--|
| Topic 5 5.Au | shadhi Kalpa-II (Compound Drugs/Formulations) (Lecture | :14 hou | ırs, Non lectu | re: 2 hour | s) | | | | - |
| CO1,CO2,CO 3,CO4 | Describe Ingredients, therapeutic importance, dose, anupana, pathya-pathya, duration of treatment, sevana kala, shelf life, research updates and clinical evidences of Dashamoola Kwatha, Pushyanuga Churna, Sanjivani Vati, Chitrakadi Gutika, Simhanada Guggulu, Yogaraja Guggulu, Chyavanaprashavaleha, Gandhakadya Malahara, Ashokarishta, Kutajarishta, Panchagavya Ghrita, Bilvadi Gutika. | САР | МК | КН | L&PP T | T- EW,P- VIVA | F&S | III | |
| CO1,CO2,CO 3,CO4 | Describe Ingredients, indications, dose, anupana, pathyapathya, duration of treatment, sevana kala, shelf life, and clinical evidences of Mahamanjistadi kwatha, Sudarshana Churna, Vyoshadi Vati, Bala Chaturbhadra Rasa, Lavana Bhaskara Churna, Narayana Taila,, Neeliringadi Taila Aravindasava, Kumaryasava. | САР | NK | КН | L&PP T,DIS | P-VIVA | S | Ш | |
| CO1,CO2,CO 4,CO5 | Describe Ingredients, indications, dose, anupana, pathyapathya, duration of treatment, sevana kala, shelf life, and clinical evidences of Panchaguna Taila, Dadimavaleha, Bramhi Ghrita | СК | DK | К | L&PP T | P-VIVA,TT- Theory | S | III | |
| CO1,CO2,CO 3 | Undersand & Recite following classical kalpas.Describe Amayika prayoga of each formulation.Understand probable mode of action as per AyurvedaSearch and Record relevant reaserch articles.Create charts describing details of these drugs.Review market avaibality & popularities of these drugs among practicing vaidyas & near by population. | САР | МК | KH | L&PP T,DIS ,BS,I BL,P BL | P-EXAM,CO M,TT-Theory | F&S | III | V-KC ,V-SH ,V-PC ,V-SH L,V-S P,V- BL |

| CO3,CO4 | Explain ethical aspect of administration of compound drugs mainly regarding duration of the treatment given. | AFT- VAL | DK | K | PBL | CL-PR | F | III | |
|---------------------|---|-------------|--------|----|-----------|------------------|-----|-----|--|
| CO1,CO2,CO 4,CO6 | Describe ingredients, with its dose, therapeutic importance, anupana and pathya-apathya along with its clinical evidences and Research upadates | СК | МК | КН | L&PP T | T- EW,P- VIVA | F&S | Ш | |
| CO1,CO2,CO 4,CO6 | Enlist the formulations with its dose, anupana and indications | СК | NK | K | L | T-EMI | S | III | |
| Topic 6 6.Dos | sage Forms & Cosmetic Products (Lecture :5 hours, Non lec | ture: 2 | hours) | | | | | | |
| CO2,CO3,CO 7 | Define the term- Dosage forms. | СК | МК | K | L&PP T | TT-Theory | F&S | III | |
| CO2,CO3,CO 7 | Discuss the need of different dosage forms. | СК | MK | K | L&PP T | TT-Theory | F&S | III | |
| CO2,CO3,CO 7 | Explain the classification of different dosage forms. | СК | DK | K | L&PP T | TT-Theory | F&S | III | |
| CO2,CO3,CO 7 | Enlist the solid / liquid / semisolid dosage forms. | СК | МК | K | L&PP T | T-EMI | F&S | III | |
| CO2,CO3,CO 7 | Discuss the routes of administration of different dosage forms. | СК | МК | K | L&PP T | T- EW | F&S | III | |
| CO2,CO3,CO 7 | Describe the advantages and disadvantages of currently available dosage forms. | СК | МК | K | L&PP T | TT-Theory | F&S | III | |
| CO2,CO3,CO 7 | Discuss the research updates about modification of classical Ayurvedic dosage forms. | СК | DK | К | L&PP T | CL-PR | F | III | |
| CO2,CO3,CO 7 | Discuss the relevant case studies of different dosage forms. | СК | NK | К | L&PP T | P-SUR | F | III | |

| CO2,CO3,CO 7 | Define the term Cosmetics. | СК | DK | К | L | TT-Theory | F&S | ш | |
|---------------------|--|-------------|----|----|----------------|-----------|-----|-----|------------------------|
| CO2,CO3,CO 7 | Explain the classification of cosmetics based on their application on the specific body parts. | СК | DK | К | L&PP T | CL-PR | F&S | III | |
| CO2,CO3,CO 7 | Differentiate between the ancient cosmetics and modern day cosmetics. | СК | DK | К | L&PP T | TT-Theory | F&S | Π | |
| CO5 | compare and appraise herbal cosmetics vs synthetic products | AFT- VAL | DK | КН | PBL | PRN | F | III | |
| Topic 7 7.Nu | traceuticals (Lecture :6 hours, Non lecture: 1 hours) | • | • | • | • | | • | | • |
| CO1 | Describe importance of combination of aahara and aushadha | СК | МК | К | L&PP T | T- EW | F&S | III | H-SW |
| CO2,CO6 | Explain Nutraceuticals with its types | СК | МК | К | L&PP T | TT-Theory | F&S | III | H-SW |
| CO2,CO6 | Corelate rasayana and nutrceutical with examples | CAN | DK | КН | DIS,P rBL | T-OBT | F | III | H-SW |
| CO2 | Describe with examples mode of action of Ayurvedic nutraceuticals | CAP | МК | KH | SDL, LS | PRN | F | III | H-Sa mhita, H-SW |
| CO2,CO6,CO 7 | Enlist at least two dietery preparations from Ayurvedic classics which can serve as rasayana/ nutraceutical in-1) General Health2) Pediatric Health3) Geriatric Health4) Women(Garbhini/ Sutika) Health5) Cardio-protection6) Chronic illness- recovery stage | САР | МК | K | DIS,B S,SY | CL-PR | F | III | H-SW |
| CO1,CO2,CO 6,CO7 | Describe potential of Ayurvedic diet and Rasayana in sports endeavor | САР | DK | KH | BS,Pr BL,PS | DEB | F | III | H-SW |

| | | | | | М | | | | |
|-------------|---|-------------|----------|----|-------------------|------------------------|-----|-----|------------------------|
| CO7 | Explain research updates about nutraceuticals | СК | NK | K | SDL, PL | M-POS | F | III | |
| CO2 | Enlist atleast two examples of Aushadhi siddha aahara with its indications for each category>(Aharadravya belonging to following category and kalpa prepared from that aahara dravya and other aushadhi ingredients)1) Jala varga2) Dugdha varga3) Ikshu varga4) Suka-dhanya varga5) Shimbi Dhanya Varga6) Shaka Varga7) Phala Varga8) Lavana Varga9) Spices | CC | DK | K | L&G D,PrB L | CL-PR | F | Ш | H-Sa mhita, H-SW |
| CO3,CO4 | creat list of unique features of Ayurvedic neutraceuticals and appraise their current need | AFT- VAL | DK | KH | DIS | PRN | F | III | |
| Topic 8 8.A | nupana Prayoga for Aushadhi Kalpa (Lecture :4 hours, Non | lecture: | 1 hours) | | | | • | • | |
| CO1 | Define and classify Anupana and Sahapana | СК | МК | K | L | T- EW | F&S | III | |
| CO1,CO2 | Expalin different factors to be considered for selection of Anupana as per Disease and Patients | CC | МК | KH | L | T- EW | F&S | III | |
| CO1,CO2 | Enlist different anupana for a single drug based on the condition of patient and disease. Elaborate with the help of examples of kalpas. | CC | МК | КН | L | T- EW | S | III | |
| CO4 | Describe value of proper selection of Anupanas with examples | AFT- VAL | DK | K | SDL | M-CHT | F | III | |
| Topic 9 9.A | ushadhi Prayoga Marga (Lecture :5 hours, Non lecture: 1 ho | urs) | | • | | • | • | · | |
| CO2,CO4 | Discuss the various types of Aushadhi Prayog Marga (route of drug administration). | СК | МК | K | L&PP T | T- EW | F&S | II | |
| CO2,CO4 | Describe the advantages and disadvantages of each Aushadhi Prayog Marga. | СК | DK | K | L&PP T,BS | P-SUR,PM,TT- Theory | F&S | II | |

| CO2,CO4 | Enlist the dosage forms used in the specific Aushadhi Prayog Marga. | СК | DK | K | L&PP T | T-EMI | F&S | II | |
|-----------------|---|-------------|----------------|-----------|---------------------|------------------|------|-----|------------------------|
| CO2 | Discuss the nature of drug (s) administered in various routes of drug administration. | CAP | NK | КН | L&G D | CL-PR | F | П | |
| CO4,CO5 | Appraise administration of drugs through various routes mentioned in Ayurvedic treatment | AFT- VAL | МК | K | L&G D | T- EW | F&S | III | |
| Topic 10 10.I | Rational prescription along with safe dispensing of Ayurved | lic form | ulations. (Lec | ture :1 h | nours, No | on lecture: 4 ho | urs) | | • |
| CO2,CO4 | Describe and write demo ideal prescription. | CAP | МК | SH | L&G D,CB L | CR-W,CHK | F&S | III | V-KC ,V-SP ,V-BL |
| CO1,CO3,CO 4 | Explain the safe dispensing and efficacious use of Ayurvedic drugs. | CAP | МК | КН | L&G D,BS, TPW | T-CS,PM | F&S | III | V-KC ,V-BL |
| CO2,CO4 | Explain the importance of rational prescribing of drugs and the concept of essential drugs. | СК | DK | K | L&G D,IBL | QZ ,CHK | F | III | V-KC |
| CO2,CO4,CO 5 | Describe the standard protocol for safe dispensing of Ayurvedic drugs. | СК | DK | КН | L&G D | T-OBT | F | III | |
| CO2,CO4 | Demonstrate and educate home remedies to small group of population. | CAP | DK | SH | PrBL, TPW | TR | F | III | H-SW |
| CO5 | explain ethical aspects related to prescription writting | AFT- RES | МК | КН | TPW | INT | F | III | |
| Topic 11 11.7 | Fraditional & Local health Practices (Lecture :2 hours, Nor | lecture | 4 hours) | | • | | | • | |
| CO1 | Identify Local Health Traditions and Healing Knowledge, | CC | DK | K | DIS,P rBL | P-SUR,INT | F | III | |

| CO1,CO5 | Recognise the possible potential of product development and research based on Traditional knowledge | CK | DK | КН | IBL | INT | F | III | |
|-----------------|--|-------------|--------------|----|---------------------|---------------------------|-----|-----|-------------------------------------|
| CO1,CO4 | Identify the factors responsible for grant of patent and erroneus grant of patent on indian traditional knowledge.? | СК | DK | К | BS | INT | F&S | III | |
| CO5 | Appraise traditional knowlege of Ayurvedic medicines | AFT- VAL | DK | К | TPW | CR-W | F | III | |
| Topic 12 12.F | Pharmacovigilance for Ayurveda drugs (Lecture :1 hours, N | Ion lectu | re: 4 hours) | | • | | | • | • |
| CO2,CO4,CO 5 | Describe the term Pharmacovigilance and explain importance of Pharmacovigilance for Ayurvedic drugs. | СК | DK | К | L&PP T,IBL | M-POS,C- INT,RK | F | III | V-KC ,V-BL ,H-D G,H- AT |
| CO4,CO5 | Explain the status and central sector scheme of Pharmacovigilance for Ayurveda, Siddha, Unani, and Homeopathy (ASU & H) drugs. | СК | МК | К | L&PP T,DIS | INT,TT- Theory | F | III | V-KC ,H-D G,H- AT |
| CO4,CO5 | Define Adverse Drug Reactions (ADR) and its types. | CE | DK | К | L&G D,IBL | QZ ,TT-Theor y,VV-Viva | S | III | V-KC ,V-BL ,H-D G,H- AT |
| CO2,CO4,CO 5 | Identify and monitor ADRs. | AFT- VAL | DK | КН | L&G D,BS, IBL | PRN,RK | F | III | V-KC ,V-BL ,H-D G,H- AT |

| CO2,CO4 | Discuss and make critical comments on the safe and efficacious use of Ayurvedic drugs. | CAP | DK | КН | | QZ ,CL- PR,INT | F | Ш | V-KC ,H-D G,H- AT |
|---------|--|-------------|----|----|-----|-------------------|---|-----|----------------------------|
| CO4,CO5 | Debate on ADR of ASU drugs | AFT- RES | DK | К | DIS | DEB | F | III | |

List of Practicals (Term and Hours)

| | PRACTICALS (Marks-100) | | | | | | | | | | | |
|------|---|------|-------|--|--|--|--|--|--|--|--|--|
| S.No | List of Topics | Term | Hours | | | | | | | | | |
| 1 | 1.Paribhasha concept based Practicals | 1 | 20 | | | | | | | | | |
| 2 | 2.Panchavidha Kashaya Kalpana & their Upakalpana Practicals | 1 | 24 | | | | | | | | | |
| 3 | 3.Rasa Dravya Aushadhi Nirmana Practicals | 1 | 20 | | | | | | | | | |
| 4 | 4.Bheshaja Kalpana Practicals -I | 2 | 24 | | | | | | | | | |
| 5 | 5.Bheshaja Kalpana Practicals -II | 2 | 22 | | | | | | | | | |
| 6 | 6.Dosage Forms & Self-care Products Practicals | 2 | 22 | | | | | | | | | |
| 7 | 7.Field Visit/ Study Tour | 3 | 24 | | | | | | | | | |
| 8 | 8.Hospital IPD Practical | 3 | 10 | | | | | | | | | |
| 9 | 9. Drug Dispensing Practical | 3 | 6 | | | | | | | | | |
| 10 | 10.Quality Control Practicals | 2 | 38 | | | | | | | | | |

Table 4: Learning objectives (Practical)

| A4 | B4 | C4 | D4 | E4 | F4 | G4 | H4 | I4 | K4 |
|-------------------|--|----------------|--|--|-------------------|--|---------------------------------|------|-----------------|
| Course outcome | Learning Objective (At the end of the session, the students should be able to) | Doma in/sub | Must to know / desirable to know / Nice to know | Level Does/ Show s how/ Know s how/ Know | T-L meth od | Assessment (Refer abbreviations) | Form ative/ summ ative | Term | Integr ation |
| Topic 1 1.Pa | ribhasha concept based Practicals | l | | ļ | | <u> </u> | | | 1 |
| CO1 | Identify the drugs and recite classical name, English name and chemical composition and varga(class) Recite Maharasa , uparasa, Sadharana rasa shlokas from Rasaratna samuchchaya. | PSY- SET | МК | КН | GBL, REC | P-VIVA,P-ID | F&S | Ι | |
| CO1,CO2 | Demonstrate the correct procedure / SOP and assess the changes observed after the procedure.Discuss the relevant samskara and its role in that procedure.Interpret the Physical, Chemical and Biological alterations. | PSY- MEC | МК | D | GBL, PT | P-PRF,CHK,O SPE | S | Ι | |
| C01,C02 | Observe and describe the pharmaceutical preparation of Gandhaka druti. Explain the term alotropism.Recite melting, boiling and evaporating temparature of Gandhaka. | PSY- MEC | DK | кн | DIS,D _L | P-VIVA | S | п | |
| CO1,CO2 | Observe the procedure of Vanga Jarana. Explain the difference between Jarana and Jaranaa. Discuss chemical process of oxidation and reduction. Recall the information about melting points of all the metals. | САР | DK | КН | PT,D | P-VIVA | S | III | |
| CO1,CO2 | Demonstrate preparation of Kajjali. Recite its classical shloka. Prepare a checklist of parameters for its siddhilakshana. Interpret | PSY- MEC | МК | D | PBL, TPW, | P-REC,P- EXAM,P-PS | F&S | Ι | |

| | law of definite proportion to explain and calculate amount of free sulfur in the prepared amount of kajjali. Calculate the expected weight of rasasindura from the given amount of kajjali. | | | | D_L | | | | |
|-----------------|---|-------------|----|----|------------------------------------|-------------------|-----|-----|--|
| CO1,CO2 | Identify relevent Bhasmapariksha and demostrate samanya and vishesha Bhasma pariksha. Interpret physical/ chemical laws relevant to classical bhasma pariksha. | PSY- MEC | МК | D | DIS,G BL,L RI,D A,D_ L | P-VIVA,CHK | F&S | I | |
| CO1 | Identify various weights and recite essential measures from conversion chart of AFI. Recognise weighing machines and their weighing capacity. | САР | DK | KH | BS,Pr BL,T PW,P L | PRN,P-SUR | F | I | |
| CO3,CO4 | Identify and value SOP of each procedure of the practical conduceted. | AFT- VAL | МК | КН | D_L | P-EXAM | S | II | |
| CO2 | Appraise ancient indications mentioned in classics for confirmation of end point of the pharmaceutical process(Siddhi lakshana) | AFT- RES | МК | K | PrBL | P-VIVA | S | III | |
| Topic 2 2.Par | nchavidha Kashaya Kalpana & their Upakalpana Practical | 5 | | | | | | | |
| CO1,CO2 | Recall, Identify and authenticate the raw materials required as per the dosge form/ formulations | PSY- SET | МК | КН | DIS,D | P-VIVA | F&S | II | |
| CO1,CO2 | Demonstrate the method of preparation to get the desired dosage form following SOP | PSY- MEC | МК | SH | DIS,P T | P-VIVA,P- EXAM | F&S | II | |
| CO1,CO2,CO 5 | Assess and explain different parameters to achieve desired characters/ end points (siddhi lakshana) as per classical and contemporary parameters | PSY- MEC | МК | KH | DIS,D | P-VIVA,P- EXAM | F&S | II | |
| CO1,CO2 | Describe ethical responsibility expected during Pharmaceutical | AFT- | МК | K | SDL | P-PRF | F&S | III | |

| | preparation of Ayurvedic Formulations | REC | | | | | | | |
|-----------------|---|------|----|----|---------------|-------------------|-----|-----|--|
| Topic 3 3.Ras | sa Dravya Aushadhi Nirmana Practicals | | | | | | | | |
| CO1,CO2,CO 3 | Explain reference Shloka of kalpas & write with interpretation -list of ingredients, their proportion, principles of yoga - yoga samyojana dravya | CC | МК | КН | L | P-VIVA,P- EXAM | F&S | I | |
| CO1,CO2,CO 3 | Identify raw Dravya ,used part with classical Mana and interpret in metric system | САР | МК | D | DIS,B S | P-EXAM | F&S | I | |
| CO2,CO3 | Identify, Utilize & know mechanism of Yantra used for drug preparation | САР | МК | КН | DIS,B S | VV-Viva | F&S | I | |
| CO2,CO3 | Observe & Record various parameters responsible for good manufacturing which are done during process of phamaceutical preparation | CE | МК | SH | DIS,B S,PT | P-EXAM | F | I | |
| CO2 | Demonstrate Sidhdhi Lakshna | САР | МК | SH | D | P-VIVA | S | III | |
| CO2,CO3 | Assess finished product as per classics. | CE | МК | SH | DIS,P T | P-VIVA,P- EXAM | S | Ι | |
| C01,C02,C0 | Appraise peculiarities of chaturvidha rasayana preparation | AFT- | DK | КН | PER | M-POS | F | III | |

| 4 | | VAL | | | | | | | |
|-------------|--|-------------|----|----|-------------|-------------------|-----|----|-----------|
| Topic 4 4.B | heshaja Kalpana Practicals -I | | | -1 | 1 | I | | | _ |
| CO1,CO3 | Demonstrate Arka preparation method, along with its packaging technique and therapeutic importance. | PSY- SET | МК | SH | DIS,D- M | P-VIVA,P- EXAM | F&S | II | |
| CO1,CO3 | Demonstrate prepration of Vati along with drying techniques | PSY- MEC | МК | КН | DIS,D | P-VIVA,P- EXAM | F&S | II | |
| CO1,CO3 | Identify the genuine sample of Guggulu and demonstrate preparation of different types of Guggulu along with drying techniques | PSY- SET | МК | К | DIS,P T | P-VIVA,P- EXAM | F&S | II | |
| CO1,CO3 | Identify the useful part of the raw material and demonstrate Sattva preparation method. | PSY- SET | МК | K | DIS,D | P-VIVA,P- EXAM | F | II | |
| CO1,CO3 | Demonstrate prepration of Varti along with drying and packaging techniques. | PSY- SET | МК | KH | PT | P-VIVA,P- EXAM | F | Π | |
| CO1,CO3 | Demonstrate Lavana preparation methods, along with its packaging techniques. | PSY- SET | DK | SH | PT | P-VIVA,P- EXAM | F | Π | |
| CO1,CO3 | Identify the internal and external applications of different kshara kalpana along with importance of ksharasutra through surgical aspects. | PSY- ADT | МК | К | PT | P-VIVA,P- EXAM | F | Π | V- SHL |
| CO1,CO3 | Demonstrate and Explain preparation methods of Masi kalpana for its internal or external application in clinical practice. | PSY- ADT | DK | K | DIS,P T | P-VIVA,P- EXAM | F | Π | |
| CO1,CO3 | Demonstrate preparation and application aspects of Upanaha kalpana . | PSY- MEC | DK | K | DIS,P T | P-EXAM | F&S | Π | V-KC |
| CO1,CO3 | Demonstrate preparations of Sikta taila along with identify the genuine sample of Sikta.Perform and Describe Malahara kalpana preparation method with its confirmatory tests of end point. | PSY- SET | DK | К | DIS,P T | P-VIVA,P- EXAM | F&S | Π | |

| CO2,CO3 | Demonstrate preparation of different types of Malahara with its applied aspect. | PSY- SET | NK | К | РТ | P-SUR | F | Π | V-KC |
|-------------|--|-------------|----|----|------------|-----------------------|-----|----|---------------|
| CO2,CO3 | Demonstrate preparation of different types of Lepa and preparation of Shatadhouta ghrita . | PSY- SET | NK | КН | DIS,P T | PRN | F | II | V-KC ,V-PC |
| CO2,CO3 | Perform and Describe Lepa kalpana preparation method with its confirmatory tests and precautionsExplain therapeutic importance of prepared Lepa kalpana, integration with Kayachikitsa and Panchakarma department along with its shelf life and packaging techniques. | PSY- MEC | DK | SH | L&G D | P-VIVA,P- EXAM | F&S | Π | V-KC |
| CO2,CO3 | Observe demonstration of formulation of Danta manjana | CAP | NK | КН | L&G D | PRN | F | II | |
| Topic 5 5.B | heshaja Kalpana Practicals -II | | | • | • | • | • | • | • |
| CO1,CO2 | Demonstrae the SoP involved in the drug selection, measuring the appropriate quantity of ingredients, preparation, observe the Physical Changes, Siddhi lakshana, enlisting the results, packing and storage of Ghrita Murchana and Taila Murchana | PSY- MEC | МК | D | PT,D | P-REC,P- EXAM,OSPE | F&S | п | |
| CO1,CO2 | Demonstrae the SoP involved in the drug selection, measuring the appropriate quantity of ingredients, preparation, observe the Physical Changes, Siddhi lakshana, enlisting the results, packing and storage of Jatyadi Gritha/ Triphala Gritha/ Ksheera Shatphala Gritha/Phala Gritha, | PSY- MEC | МК | D | PT,D | P- EXAM,OSPE | F&S | п | |
| CO1,CO2 | Demonstrae the SoP involved in the drug selection, measuring the appropriate quantity of ingredients, preparation, observe the Physical Changes, Siddhi lakshana, enlisting the results, packing and storage Ksheera Bala Taila/Kasisadi Taila/ Panchaguna Taila/ Arka Taila/Kutajasuryapaki taila | PSY- MEC | МК | SH | D | P- EXAM,OSPE | F&S | II | |

| CO1,CO2 | Demonstrae the SoP involved in the drug selection, measuring the appropriate quantity of ingredients, preparation, observe the Physical Changes, Siddhi lakshana, enlisting the results, packing and storage Bhallataka Taila Patana/ Jayapala Taila Patana/Vishvamitra Kalpa Sneha | PSY- MEC | DK | КН | D | P-VIVA,P- EXAM,OSPE | F | II | |
|---------|---|-------------|----|----|---|-------------------------|-----|----|--|
| CO2 | Demonstrae the SoP involved in the drug selection, measuring the appropriate quantity of ingredients, preparation, observe the Physical Changes, Siddhi lakshana, enlisting the results, packing and storage of Vasavaleha/ Chavana Prasha Avaleha/ Kushmanda Avaleha | PSY- MEC | МК | КН | D | P-VIVA,P- REC,P-EXAM | F&S | Π | |
| CO2 | Demonstrae the SoP involved in the drug selection, measuring the appropriate quantity of ingredients, preparation, observe the Physical Changes, Siddhi lakshana, enlisting the results, packing and storage of Nimbu Sharkara | PSY- MEC | NK | SH | D | P- EXAM,OSPE | F | II | |
| CO2 | Demonstrae the SoP involved in the drug selection, measuring the appropriate quantity of ingredients, preparation, observe the Physical Changes, Siddhi lakshana, enlisting the results, packing and storage of Daruharidra Rasakriya | PSY- MEC | NK | SH | D | PRN | F | II | |
| CO2 | Demonstrae the SoP involved in the drug selection, measuring the appropriate quantity of ingredients, preparation, observe the Physical Changes, Siddhi lakshana, enlisting the results, packing and storage of Haridra Khanda/ Narikela Khanada | PSY- MEC | МК | D | D | P-VIVA,P- EXAM,OSPE | F&S | II | |
| CO1 | Demonstrae the SoP involved in the drug selection, measuring the appropriate quantity of ingredients, preparation, observe the | PSY- MEC | МК | KH | D | T- EW,P- VIVA | F&S | п | |

| | Physical Changes, Siddhi lakshana, enlisting the results, packing and storage of Kumaryasava/Drakshasava | | | | | | | | |
|-------------------------|--|-------------|----|----|---------------|-----------------------|-----|-----|--|
| CO1,CO2 | Demonstrae the SoP involved in the drug selection, measuring the appropriate quantity of ingredients, preparation, observe the Physical Changes, Siddhi lakshana, enlisting the results, packing and storage of Kutajarista/Ashokarishta/Takrarishta | PSY- MEC | МК | КН | D | P-VIVA | F&S | П | |
| CO2 | . Demonstrate the SoP involved in the drug selection, measuring the appropriate quantity of ingredients, preparation, observe the Physical Changes, Siddhi lakshana, enlist the results, packing techniques and storage of unique formulations for e.g.Kanji/ Madushukta | CC | DK | КН | D | P-VIVA,COM | F&S | П | |
| Topic 6 6.Dos | sage Forms & Self-care Products Practicals | | | • | | | • | | |
| CO1,CO2,CO 6 | Observe instruments used to prepare soliddosage form, liquid dosage form and Semisolid Dosage Form with one example for each , their method of preparation, ingredients used with their quantity and Quality control Parameters. | AFT- RES | DK | КН | W,PT, D | P-VIVA,CHK | F&S | III | |
| CO1,CO2,CO 6 | Observe instruments used to prepare with one example for each , their method of preparation, ingredients used with their quantityand Quality control Parameters.of following self care productsHair care: Shampoo Body care :Soap, Perfume Face care : Face Pack/Talcum Powder Lip Care : Lip Balm, Lipstick Oral care: Tooth Paste/ Mouth Wash Foot Care: Foot Cream Hand Disinfectant : Hand SanitizerSkin Care: Moisturizer, Sunscreen Lotion following self care products | PSY- ADT | DK | КН | L_VC ,PT,D | P-VIVA,P- EXAM,CHK | F&S | III | |
| Topic 7 7.Fie | ld Visit/ Study Tour | | | | | | | | |
| CO1,CO3,CO 4,CO5,CO6 | Field Visit - Record the storage condition of the raw / in-process | СК | DK | K | DIS,F V | M-POS,COM | F | III | |

| | / finished goods prepared in the approved sections. | | | | | | | | |
|-------------------------|--|-------------|----|----|---------------|---------|---|-----|--|
| | | | | | | | | | |
| CO1,CO3,CO 4,CO5,CO6 | Determine the role of various Yantras / machineries used in the approved sections of the Pharmacy | СК | DK | КН | DIS,R LE | INT | F | III | |
| CO1,CO3,CO 4,CO5,CO6 | Differentiate between the ancient and contemporary methods of drug preparation. | CC | DK | K | DIS,F V | PRN | F | III | |
| CO1,CO3,CO 4,CO5,CO6 | Enlist the documents required in Batch Manufacturing of Ayurvedic medicines. | СК | NK | K | DIS | P-SUR | F | III | |
| CO1,CO3,CO 4,CO5,CO6 | Identify the role of Quality Control instruments and equipments in ensuring a quality Ayurvedic product. | СК | DK | К | L&PP T,DIS | DEB | F | III | |
| CO1,CO3,CO 4,CO5,CO6 | Appreciate the importance of Good Manufacturing Practices and Good Packaging Practices required in Ayurvedic Drug manufacturing. | AFT- VAL | DK | K | DIS | PRN,DEB | F | III | |
| CO1,CO3,CO 4,CO5,CO6 | Prepare own products as per prevalent FDA guidelines. | PSY- GUD | DK | D | L_VC ,DIS | P-EXAM | F | III | |
| Topic 8 8.Ho | spital IPD Practical | | | · | | | • | • | • |
| CO1,CO2,CO 3,CO4 | Review & Observe the case Sheets. | CC | NK | КН | DIS | P-SUR | F | III | V-KC ,V-SH ,V-PC ,V-SH L,V-S |

| | | | | | | | | | P,V- BL |
|-----------------|---|-------------|----|----|----------|--------|-----|-----|------------------------|
| CO1,CO2 | Discuss for formulation prescription manner. | CC | DK | КН | L&G D | T-CS | F&S | III | V-KC |
| CO1,CO2,CO 3 | Demonstrate & Explain prescription method. | CAP | DK | SH | CD | P-PS | F&S | III | V-KC |
| CO1,CO2,CO 4 | Measure dose of prescribed drug. | CAP | МК | КН | PrBL | SP | F | III | |
| CO1,CO2,CO 3 | Enlist Time, Duration, Pathya, Apathya while prescribing drugs. | САР | DK | КН | L&G D | P-PRF | F | III | |
| CO4,CO5 | value details and methodical writting of case records of hospital IPD patients | AFT- VAL | МК | КН | RLE | P-CASE | F | III | |
| Topic 9 9. Dr | ug Dispensing Practical | 1 | • | | | • | | | |
| CO1,CO3 | Assess the arrangement of Ayurvedic drugs according to nature and type in dispensing room or pharmacy. | CAP | NK | D | RLE | P-PRF | F | III | V-KC ,V-PC ,V-BI |
| CO1,CO3,CO 4 | Assess practice of prescription processing and labelling of the drugs. | CE | DK | КН | PrBL | INT | F | III | |
| CO3,CO4 | Determine and identify the cause of common errors occurred | CC | DK | КН | RLE | CL-PR | F | III | |

| | during dispensing of Ayurvedic drugs. | | | | | | | | |
|--------------------|--|-----|----|----|------------------------------|--------------------|-----|---|---------------|
| CO2,CO4 | Explain use of correct drug supply to the right patients, in the required dosage, quantities and clear drug information. | САР | DK | SH | L&G D | PRN | F | Ш | V-KC ,V-BL |
| Topic 10 10 | Quality Control Practicals | | 1 | | | 1 | | | -1 |
| CO2 | Develop analytical skills for understanding Identity, Purity and Strength of raw materials and finished products as per the standard guideines of the Ayurvedic Pharmacopoeia of India. | СК | МК | КН | L&G D,BS, W,PT, D_L | P-VIVA | F | Π | |
| CO2,CO5 | Identify the geological description of minerals: physical parameters. | СК | DK | К | L_VC ,W,D _L,FV | P-ID | F&S | П | |
| CO2 | Describe ayurvedic perspectives of quality control parameters applying for solid, semisolid and liquid dosage forms. | САР | МК | SH | L&G D,TU T,DA | P-VIVA,Log book | F&S | П | |
| CO2,CO5 | Demonstrate the calibration techniques used for Weighing Balance (chemical and physical), pH Meter, Hot Air Oven and Electric Muffle Furnace to ensure the accuracy of the instrument what it is intended to measure. | CC | DK | КН | D_L | P-VIVA,PRN | F | Π | |
| CO2 | | CAP | МК | SH | PT,D | P-EXAM,Log | F | п | 1 |

| | Demonstrate bulk density, loss on drying, total ash, pH and water soluble extractives of Churna. | | | | A | book | | | |
|---------|--|-------------|----|----|--------------------------------------|--------------------|-----|-----|--|
| CO2 | Perform the analytical tests of tablets/ vati/ gutika for hardness, uniformity of weight and friability. | AFT- CHR | МК | SH | PT,D A | P-EXAM,Log book | F&S | II | |
| CO2 | Estimate specific gravity, alcohol content and total solids of Asava & Arishta. | AFT- CHR | МК | SH | PT | P-EXAM,P- PRF | F | II | |
| CO2,CO5 | Determine iodine value, acid value and saponification value of oils / ghee. | САР | МК | КН | D_L | P-VIVA | F&S | II | |
| CO2,CO3 | Calculate the dose of various dosage forms and their dispensing methods. | CE | МК | SH | L&G D,PrB L,BL, RLE, D_L | P-SUR,P- CASE | F&S | II | |
| CO4,CO5 | Appraise quality control procedures done for Ayurvedic formulations | AFT- VAL | DK | К | DIS | CL-PR | F | III | |

Table 4a: List of Practical

| S.No | Name of practical | Term | Activity | Practical hrs |
|------|----------------------|------|---|---------------|
| 1 | 1.Paribhasha concept | 1 | A) Dravya Paribhasha- Identification of | 20 |
| | basedPracticals | | drugs and their respective class (varga) | |
| | | | B) Prakriya Paribhasha- | |
| | | | 1.Swedana: Godanti Shodhana | |
| | | | (A.F.I1,18:4 (Rasatarangini 11/238) | |
| | | | Shankha Shodhana | |
| | | | (A.F.I1,18:18(Rasatarangini 12/12/2) | |
| | | | Kapardika shodhana (Rasatarangini 12/89) Guggulu Shodhana (Rasendra Sara | |
| | | | Sangraha 1/386, Pg. 117 | |
| | | | 2. Mardana :Parada Samanya Shodhana | |
| | | | (Ayurveda Prakasha 1/165) | |
| | | | 3. Dhalana : Gandhaka Shodhana (A.F.I. | |
| | | | 2 Parishishta - 2,9 Shodhana(Rasamrita 2, | |
| | | | 3) Vanga Shodhana (A.F.I1,18:15 | |
| | | | (Sharangadhara M.11/2) Yashada shodhana | |
| | | | (Rasatarangini 19/99) | |
| | | | 4. Nirvapa : Abhraka Shodhana | |
| | | | (A.F.I1,18:1 (Rasatarangini 10/20) Tamra | |
| | | | Shodhana (A.F.I1,18:5 (Ayurveda | |
| | | | Prakasha 3/118) | |
| | | | 5. Nirjaleekarana : Tankana Shodhana | |
| | | | (A.F.I. 2 Parishishta -2,15 Shodhana (| |
| | | | Ayurveda Prakasha 2/244) Kankshi | |
| | | | shodhana (A.F.I2, 14:3 (Ayurveda | |
| | | | Prakasha 2/258) | |
| | | | 6. Bhavana: Hingula Shodhana (A.F.I. 2 | |
| | | | Parishishta - 2 Shodhana (Rasamruta | |
| | | | 1/54) | |
| | | | 7. Bharjana: Gairika Shodhana (A.F.I. 2 | |
| | | | Parishishta - 2,11 Shodhana (Rasaratna | |
| | | | Samuchchaya 3/49) Hingu Shodhana | |
| | | | (Bhavprakash Nighantu, Haritakyadi | |
| | | | Varga, 1/101, Pg. 42) | |
| | | | 8. Nimajjana/Sthapana: Vatsanabha | |
| | | | shodhana (A.F.I. 2 Parishishta - 2,25 | |
| | | | Shodhana (Rasamrita parishishta 8:145) | |
| | | | 9. Jarana : Vanga Jaran (Ayurved | |
| | | | Prakash 3/159) Vanga Bhasma | |
| | | | (A.F.I1,18:15 (Rasamruta 3/94) | |
| | | | 10. Murchana: Mugdha Rasa | |
| | | | (Rasatarangini 6/9) Kajjali (A.F.I 1 | |
| | | | Parishishta-1, Paribhasha 21 (Rasatarangini | |
| | | | 2/27) | |
| | | | 11. Druti- Gandhaka Druti(Rasa Ratna | |
| | | | Samuchchaya 3/29) | |
| | | | C) Pramanikarana Paribhasha- | |

| | | Bhasma Samanya Pareeksha Abhraka Bhasma (Ayurved Prakash 2/104) Shankha Bhasma (Rasaratnasamucchaya 8/26-30) Bhasma Vishesha Pareeksha: Tamra Bhasma (Dadhi/ Nimbu Pariksha)- (Bhaishajya Kalpana Vigyan, Vd. Siddhinandan Mishra, Pg. 78) D) Namburi Phased Spot Test (NPST) | |
|---|---|---|----|
| 2 | 2.Panchavidha Kashaya Kalpana & their Upakalpana Practicals | 1.Swarasa Kalpana: Tulasi swarasa (Sharangdhar Samhita Madhyam Khanda 1/2), Ardraka Swarasa (Sharangdhar Samhita Madhyam Khanda 1/2), Vasaputapaka Swarasa (Sharangdhar Samhita Madhyam Khanda 1/22-23 & 34) 2. Kalka Kalpana: Nimba kalka (Sharangdhar Samhita Madhyam Khanda 5/1), Rasona Kalka (Sharangdhar Samhita Madhyam Khanda 5/1) 3. Kwatha Kalpana: Punarnavashtaka kwatha (Sharangdhar Samhita Madhyam Khanda 2/1-2, 78-79), Rasna Saptaka Kwatha (Sharangdhar Samhita Madhyam Khanda 2/1-2, 88-89) 4. Hima Kalpana: Dhanyaka Hima (Sharangdhar Samhita Madhyam Khanda 4/1, 7-8), Sarivadi Hima 5. Phanta Kalpana: Panchakola phanta (Sharangdhar Samhita Madhyam Khanda 4/1, 7-8), Sarivadi Hima 5. Phanta Kalpana: Panchakola phanta (Sharangdhar Samhita Madhyam Khanda 3/1-2), Yashtimadhu phanta (AFI 1 Parishishta – 1,2/5 Paribhasha) 6. Churna Kalpana:Sitopaladi churna (AFI Part 1, Vol. 1 A, Pg. 348), Hingwastaka Churna (AFI Part 1, Vol. 1 A, Pg. 353) 7. Pramathya: Mustadi Pramathya (Sharangdhar Samhita Madhyam Khanda 2/ 152-153) 8. Paneeya Kalpana: Shadanga Paneeya (Sharangdhar Samhita Madhyam Khanda 2/ 159-160) 9. Mantha Kalpana: Chincha Panaka (Bhaishajya Ratnavali Arochaka 18/34-35), Chandana Panaka 11. Ksheerapaka Kalpana: (Sharangdhar Samangdhar | 24 |

| | | | Samhita Madhyam Khanda 2/175-176), Arjuna Ksheera Paka - Chakradatta, Lashuna Ksheerapaka - Charaka Chikitsasthana 5/95 12. Udaka Kalpana : Tandulodaka (Sharangdhar Samhita Madhyam Khanda 1/28) Note: In each category if more than 1 practical are there any one or all may be performed. | |
|---|--|---|--|----|
| 3 | 3.Rasa Dravya Aushadhi Nirmana Practicals | | I. Marana :Vanga Bhasma (A.F.I I, Bhasma, 18:15, Rasatarangini Taranga) / Sankha Bhasma:A.F.I I, Bhasma, 18:18, Rasatarangini taranga 12/2) 2. Kharaliyarasayana :Ananda Bhairava Rasa(A.F.I I, Rasayoga, 20:3, Rasendrasarasangraha Jwaradhikara 2/103-105) /, Tribhuvana Keerti rasa(A.F.I. - I, Rasayoga, 20:20, rasamrita 9/80-81) 3. Parpati : Rasa Parpati(A.F.I I, Parpati, 16:3, Bhaishajyaratnavali grahanirogadhikara 414-416&436-440), Sweta Parpati(A.F.I II, Parpati, 12:2, siddhyogsangraha ashmarimutrakruchhaadhikara) 4. Kupipakwarasayana : Rasasindhura(A.F.I I, Kupipakwa Rasayana, 15:6, rasatarangini taranga 6/162-176) 5.Pottalirasayana :Rasagarbhapottali (Rasayogsagar dwitiyabhaga pottali rahasya page 582) 6. Rasa : Laghusutsekhararasa (Rasatantrasara avum siddhaprayogsangraha part-1, kharaliya rasayana page 274) 7. Loha: Navayasa loha(A.F.I II, lauha, 17:2, Charaka samhita chi.16/70-71)/, Saptamrita loha(A.F.I I, lauha, 21:11, Bhaishajyaratnavali shoolrogadhikara 83-84) | 20 |
| 4 | 4.Bheshaja Kalpana Practicals -I | 2 | 1. Arka Kalpana: Yavani Arka (API, Part 2, Vol. 3, Pg. 24) Gulab Arka (API, Part 2, Vol. 3, Pg. 4) Misreya Arka (AFI, Part 1, Vol. 1 A, Pg. 106) | 24 |

| 2. Vati Kalpana: | |
|---|----|
| Agni Tundi Vati (AFI, Part 1, Vol. 1 A | ۱. |
| Pg. 497) | , |
| Chitrakadi Vati (API, Part 2, Vol. 3, P | g. |
| 107) | 0. |
| Lavangadi Vati (API, Part 2, Vol. 3, P | σ. |
| 116) | 0. |
| 3. Guggulu Kalpana: | |
| Triphala Guggulu (API, Part 2, Vol. 2, | Ρσ |
| 134) | 18 |
| Kaishor Guggulu (API, Part 2, Vol. 1, | Ρσ |
| 94) | 18 |
| 4. Satva Kalpana: | |
| Amruta Satva (AFI, Part 1, Vol. 1 A, P | σ |
| 560) | 5. |
| Ardraka Satwa | |
| 5. Varti Kalpana: | |
| Phala Varti - (Bhaishajya Ratnavali | |
| 31/10) | |
| Chandrodaya Varti (AFI, Part 1, Vol. 1 | А |
| Pg. 553) | |
| 6. Lavana Kalpana: | |
| Arka Lavana (API, Part 2, Vol. 1, Pg. | |
| 103) | |
| Narikela Lavana (AFI, Part 1, Vol. 1 A | |
| Pg. 473) | , |
| 7. Kshara Kalpana: | |
| Apamarga Kshara (AFI, Part 1, Vol. 1 | A. |
| Pg. 466) | , |
| Kshara Sutra Preparation (AFI Part 3, P | g |
| 213) | U |
| 8. Masi Kalpana: | |
| Triphala Masi (Rasendra Sara Sangraha | L |
| Upadamsha Chikitsa) | |
| Mayura Piccha Masi (Yogratnakar, | |
| Chhardiroga, Pg. 453) | |
| 9. Upanaha: | |
| Atasi Upanaha | |
| 10. Manjana: | |
| Dashanasamskara churna (Bhaishajya | |
| Ratnavali Mukharog, 61/97-98) | |
| 11. Malahara Kalpana: | |
| Siktha Taila (Rasatarangini 4/59) | |
| Sarjarasa Malahara (Rasatantrasar & | |
| Siddha Prayog Sangrah Part 1, Pg. 849) | |
| Gandhaka Malahara (Rastarangini | |
| 8/63-85) | |
| | |
| 12.Lepa Kalpana: | |

| | | | 487) Shatadhouta Ghrita (Sushrut Samhita Uttartantra 39/283) | |
|---|--|---|--|----|
| 5 | 5.BheshajaKalpana Practicals -II | 2 | Sneha Kalpana: Ghrita Murchana (Bhaishajya Ratnavali, Jwaradhikar, 1285), Taila Murchana (Bhaishajya Ratnavali, Jwaradhikar, 1286-1287) Ghrita Kalpana: Triphala Ghrita (API, Part 2, Vol. 1, Pg. 90), Amruta Ghrita (Bhaishajya Ratnavali Vatarakta 27/126) Taila Kalpana: Ksheera Bala Taila (API, Part 2, Vol. 1, Pg. 124), Arka Taila(Sharangdhar Samhita Madhyam Khanda 9/148) Taila Patana: Bhallataka Taila Patana (Sushrut Samhita Chikitasa Sthana 1/92) Avaleha Kalpana: Vasavaleha (API, Part 2, Vol. 1, Pg. 32), Kushmanda Avaleha (AFI, Part 1, Vol. 1 A, Pg. 35) Sharkara Kalpana: Nimbu Sharkara (Rasatantrasara & Siddhaprayog Sangraha I / Paka Avaleha) Ghana: Kutaja Ghana(AFI Part 2, Pg 175), Guduchi Ghana (Ayurved Prakash 3) Khanda Kalpana: Haridra Khanda (Bhaishajya Ratnavali Udarda, Shitapitta), Narikela Khanda (AFI, Part 1, Vol. 1 A, Pg. 41) Asava : Lohasava (Sharangdhar Samhita, Madhyam Khanda 10/ 34-38), Drakshasava (AFI Part 2, 1:1) Arishta: Arjunarishta (Bhaishajya Ratnavali Hridrog). Takrarishta (Charak Samhita Chikitsa 15 / 120) Sharangdhar Samhita, Madhyam Khanda 10/ 12), Madushukta (Bhaishajya Ratnavali Karnaroga 62 /23-24) | 22 |
| 6 | 6.Dosage Forms & Self- care Products Practicals | 2 | 1. Solid dosage forms: | 22 |
| | | | • Granules/ Lozenges (Pharmaceutics by R.M. Mehta) | |

| 2. Liquid Dosage forms: |
|--|
| Syrup/Suspension/Emulsion/Linim ent (Pharmaceutics by R.M. Mehta) |
| 3. Semisolid Dosage: |
| Cream/Gel/Ointment/Pain Balm (Pharmaceutics by R.M. Mehta) |
| 4. Hair Care: |
| Shampoo (A Handbook of Cosmetics by B M Mithal & R N Saha 8th chapter) |
| 5. Body Care: |
| • Soap/Perfume (Pharmaceutics by R.M. Mehta) |
| 6. Face Care: |
| Face pack / Talcum Powder (A Handbook of Cosmetics by B M Mithal & R N Saha 3rd chapter) |
| 7. Lip Care: |
| • Lip Balm, Lipstick (A Handbook of Cosmetics by B M Mithal & R N Saha 4th chapter) |
| 8. Oral Care: |
| Tooth Paste/ Mouth Wash (A Handbook of Cosmetics by B M Mithal & R N Saha 19th & 20th chapter) |
| 9. Foot Care: |

| | | | Foot Cream (A Handbook of Cosmetics by B M Mithal & R N Saha 5th chapter) 10. Hand Disinfectant: Hand Sanitizer ((Pharmaceutics by R.M. Mehta) 11. Skin Care: Moisturizer/Sunscreen Lotion (A Handbook of Cosmetics by B M Mithal & R N Saha 6th chapter) Note: In each category if more than 1 practical are there any one or all may be performed. | |
|----|----------------------------------|---|---|----|
| 7 | 7.Field Visit/ Study Tour | 3 | GMP Certified Pharmacy VisitX2 Pharmacy (1 classical formulations and 1Proprietary formulations/Having bothManufacturing facility)NABL Accredited drug TestingLaboratory/Research and DevelopmentUnitCombined out campus/ Field visit may beplanned wherever feasible | 24 |
| 8 | 8.Hospital IPD Practical | 3 | Hospital IPD Practical: Formulation prescription, method administration, dose, time, duration, Pathya, Apathya advised - Minimum 10 case sheet record of different dosage forms prescribed for particular case/ disease | 10 |
| 9 | 9. DrugDispensing Practical | 3 | Drug Dispensing practical for method of Dispensing different dosage forms, their packing for OPD and IPD patients | 6 |
| 10 | 10.Quality Control Practicals | 2 | 1 Minerals & Metals Mineral Identification Physical form – Crystal and | 38 |

Amorphous • Hardness on Moh's scale

- Brittleness test
- Fracture and Cleavage
- Streak Test
- Luster

2 Plant Material

- Estimation of Foreign matter
- Specific Gravity
- Refractive Index

3. Prepared Dosage forms

A. Solid Dosage Forms Rasaushadhi

Bhasma and Pishti Pariksha
Determination of Moisture content

4. Kashtoushadhi

- a. Churna
- Particle Size
- Bulk Density
- Determination of Ash Value –
- Total Water Soluble/Acid
- Insoluble ash
- b. Tablets
- Uniformity in Weight and Size
- Tablet Hardness
- B. Semisolid Dosage forms
- Moisture Content
- Microbial Load

C. Liquid Dosage Forms

- PH Value
- Refractive Index
- Specific Gravity
- Saponification Value
- Iodine Value
- Acid Value
- Viscosity

Note :

• All Practical should be performed in Accordance of Methods published in protocol for testing of ASU Medicines and

| Laboratory Guide for Analysis of Ayurveda & Siddha formulations published by Dept of AYUSH, GOI Minimum 5 Analytical Practicals are to be written in Practical Record or In Journal | |
|--|-----|
| Total Hr | 210 |

Activity

| Topic name | Activity Details | Hours [#] |
|---|--|---|
| Paper I -1. Chronological development of Ayurvediya Aushadhi Nirmana | Objective - To orient the students regarding chronological development of Rasashastra & Bhaishajya Kalpana | 1 |
| | After completing this activity, students will be able to: | |
| | Describe the history of Rasashastra & Bhaishajya Kalpana. Identify the different types of metal-based | |
| | Explain the benefits of metal-based medicines. Discuss the safety of metal-based medicines. | |
| | Methodology 1) All students are to be assigned to collect and | |
| | Paper I -1. Chronological development of Ayurvediya Aushadhi | Paper I -1. Chronological development of Ayurvediya Aushadhi Objective - To orient the students regarding chronological development of Rasashastra & Bhaishajya Kalpana After completing this activity, students will be able to: After completing this activity, students will be able to: • Describe the history of Rasashastra & Bhaishajya Kalpana. • Describe the history of Rasashastra & Bhaishajya Kalpana. • Identify the different types of metal-based medicines. • Identify the benefits of metal-based medicines. • Discuss the safety of metal-based medicines. • Discuss the safety of metal-based medicines. |

| | | development of Rasashastra & Bhaishajya Kalpana from different books, including Indians are the first, who introduced metal based medicines.2) Ask to Submit the assignment for signature | |
|---------|--|--|---|
| CO1,CO2 | Paper I - 2. a) Paribhasha(Terminology) | Rasadravya | 1 |
| | | Objective - To encourage the students to remember rasadravyas and their classification through games | |
| | | Activity | |
| | | Group I - In one big tray all Rasa - Dravyas are to be kept together. Timer to be started. | |
| | | In a stipulated time, student has to collect drugs belonging to the particular class (rasadravya varga) allotted to him /her and create a heap in order This can be given in a group. | |
| | | Group 2Word puzzle | |
| | | Various word puzzles can be created for making the students to remember names of rasadravyas along with their class. | |
| C01,CO3 | Paper I -2. b)Paribhasha | Mana Paribhasha Objective - After completing this activity, students will be able to: | 2 |

| CO1,CO2 | Paper I -2. c)Paribhasha Terminology | Shodhana | 1 |
|---------|---|--|---|
| 001.002 | | the reduction in the weight of the sample till it dries completely. Record weight every day. Discussion about observation will be done. Do this same for Vasa, Shatavari, Amalaki also. Compare and assess the results. Every year drugs need to be changed | |
| | | much volume these drugs have.3) Collect fresh Guduchi.500gm or any fresh drugs leaf, bark, flower etc. Keep on observing | |
| | | 2) Measure by weight the given drug. (Guduchi Bharad, Amalaki Bharad, Haritaki Churna, Nimbapatra churna, whole maricha all will be kept having same weight) Now observe how | |
| | | 1) Collect seeds mentioned in the classical mana paribhasha and prepare chart describing details of mana | |
| | | groups. (4-5 students in each group). Each group need to make a chart/ task as per the instructions written on the paper they pick up. | |
| | | Methodology- whole batch need to be divided into various | |
| | | • Enjoy (game based) learning about rasadravyas and their classification. | |
| | | • Understand the % of weight loss after drying different variety of the wet drugs | |
| | | • weigh dry & wet drugs | |

Objective - To enhance ability of the students to recall their knowlege about rasadravyas and their procedures At the end of Activity, the students should be able to Recall the different shodhana methods that are used for rasadravyas. • Identify the different yantras that are used for shodhana. • Understand the different procedures that are used for shodhana. • Correctly answer questions about shodhana methods, yantras, and procedures. • Explain the different steps involved in the shodhana process. • Discuss the benefits of shodhana for rasadravyas. Activity-Rapid Fire quiz online Questions will be framed based on the knowlegde of Yanra, Dravya, Method used for that drug etc and rapid fire round will be carried out. This can be done online Questions for example-1) Vanga Shodhan is done by which method? 2) Which yantra is used for Shankha Shodhan?

| | | 3) LashunaSvarasa bhavana is used for shodhana of which drug? | |
|---------|---|--|---|
| CO1,CO2 | Paper I- 3.Adharabhuta Siddhanta (Fundamental Principles) | Objective : To understand the concept with the help of classical shloka & application of fundamental principles of Ayurvediya aushadhi nirmana. | 2 |
| | | After completing this activity, students will be able to: | |
| | | Identify the different fundamental principles of Ayurvediya Aushadhi Nirmana. Illustrate how these principles are applied in the preparation of Ayurvedic formulations. Interpret classical shlokas related to the application of fundamental principles using Panchavayavavakya. Demonstrate the skill of interpreting classical shlokas using Panchavayavavakya. Students are to be divided into 5 groups Each group need to be given 2 Shlokas from particular classical text book | |
| | | Method of Activity: | |
| | | 1. The students are divided into groups & each group need to be allotted 1 to 2 shlokas from classics related to application of fundamental principles. | |
| | | 2. To develop skill of interpretation of shloka by applying Panchavayava vakya i.e Pratignya, | |

| Hetu, Udhaharana,Upanaya and nigamana |
|--|
| 3. They will understand application of basic fundaments. |
| 4. Every year different sets of shlokas are to be given. Repetition of shlokas is not acceptable |
| Discussion: |
| After completion of task, discussion need to be held with teacher and students. |
| Teacher in charge will finally conclude the discussion on application of fundamental principles and understanding the shloka by applying Panchavayavavakya. |
| Optional Activity Activity - 1 Title : Search references from classical text |
| Group : Students should be divided in to 10 groups. |
| Reference Text : 1.Chakradatta 2.Yogaratnakara 3.Bhavaprakasha 4.Sharangadhara |
| 1GP : DravyaSamgraha method |
| 2 GP : Collection Time |
| 3 Gp :Collection Part |
| 4 GP : Examples of Samskara |
| 5 GP :Collection Nakshatra |
| 6 GP :Pranija dravya partcollection |
| 7 GP :Duplication Yoga |
| 8 GP : Namakarana on Mana/Number of Dravy 9 GP : Saveeryata Avadhi |
| |

| After completing this activity, students will be able to: • Identify the different yantras that are used in the preparation of Ayurvedic formulations. • interpret the different procedures of drug preparation that use yantras. • Collect information on different yantras from classical text books. • Present their findings in a clear and concise way. Actvity • Students need to be divided into 4 groups (15 to 25 students in each group) • Each group need to be given one reference book • They have to collect information on different yantra explained /used for different yantra explained /used for different yantra explained /used for that book. • Books like Ananda kanda, Rasa Tarangini, Rasa Ratna Samuchyaya, Rasendra Sara Sangraha, Parada Samhita etc can be given. • Each Group has to present/ Submit assignment on total no of Yantras mentioned, their different uses, Structure/Picture etc | CO1,CO5 | Paper I -4.Yantropakaranani - I (Equipments and machineries) | Objectives:- |
|---|---------|---|--|
| the preparation of Ayurvedic formulations. interpret the different procedures of drug preparation that use yantras. Collect information on different yantras from classical text books. Present their findings in a clear and concise way. Actvity Students need to be divided into 4 groups (15 to 25 students in each group) Each group need to be given one reference book They have to collect information on different yantras explained /used for different yantras explained /used for different yantras asangraha, Parada Samhita etc can be given Every year digfferent books are to be given. Each Group has to present/ Submit assignment on total no of Yantras mentioned, their different uses, | | | · · · |
| preparation that use yantras. Collect information on different yantras from classical text books. Present their findings in a clear and concise way. Actvity Students need to be divided into 4 groups (15 to 25 students in each group) Each group need to be given one reference book They have to collect information on different yantras explained /used for different procedures of drug preparation from that book. Books like Ananda kanda, Rasa Tarangini, Rasa Ratna Samuchyaya, Rasendra Sara Sangraha, Parada Samhita etc can be given Every year digfferent books are to be given. Each Group has to present/ Submit assignment on total no of Yantras mentioned, their different uses, | | | |
| classical text books. Present their findings in a clear and concise way. Actvity Students need to be divided into 4 groups (15 to 25 students in each group) Each group need to be given one reference book They have to collect information on different yantras explained /used for different procedures of drug preparation from that book. Books like Ananda kanda, Rasa Tarangini, Rasa Ratna Samuchyaya, Rasendra Sara Sangraha, Parada Samhita etc can be given Every year digfferent books are to be given. Each Group has to present/Submit assignment on total no of Yantras mentioned, their different uses, | | | · · · · · |
| way. Actvity Students need to be divided into 4 groups (15 to 25 students in each group) Each group need to be given one reference book They have to collect information on different yantras explained /used for different procedures of drug preparation from that book. Books like Ananda kanda, Rasa Tarangini, Rasa Ratna Samuchyaya, Rasendra Sara Sangraha, Parada Samhita etc can be given. Each Group has to present/ Submit assignment on total no of Yantras mentioned, their different uses, | | | • |
| Students need to be divided into 4 groups (15 to 25 students in each group) Each group need to be given one reference book They have to collect information on different yantras explained /used for different procedures of drug preparation from that book. Books like Ananda kanda, Rasa Tarangini, Rasa Ratna Samuchyaya, Rasendra Sara Sangraha, Parada Samhita etc can be given Every year digfferent books are to be given. Each Group has to present/ Submit assignment on total no of Yantras mentioned, their different uses, | | | - |
| Students need to be divided into 4 groups (15 to 25 students in each group) Each group need to be given one reference book They have to collect information on different yantras explained /used for different procedures of drug preparation from that book. Books like Ananda kanda, Rasa Tarangini, Rasa Ratna Samuchyaya, Rasendra Sara Sangraha, Parada Samhita etc can be given Every year digfferent books are to be given. Each Group has to present/ Submit assignment on total no of Yantras mentioned, their different uses, | | | |
| | | | Students need to be divided into 4 groups (15 to 25 students in each group) Each group need to be given one reference book They have to collect information on different yantras explained /used for different procedures of drug preparation from that book. Books like Ananda kanda, Rasa Tarangini, Rasa Ratna Samuchyaya, Rasendra Sara Sangraha, Parada Samhita etc can be given Every year digfferent books are to be given. Each Group has to present/ Submit assignment on total no of Yantras mentioned, their different uses, |

| | | collected. | |
|---------|-------------------------------------|--|---|
| CO1,CO5 | Paper I -5.Yantropakaranani - II | Objective:- | 4 |
| | (Equipments and machineries) | After completing this activity, students will be able to: | |
| | | • Prepare a video/ppt demonstration on Musha, Koshthi and Puta. | |
| | | • Model the preparation of Musha, Koshti and Puta. | |
| | | • Collect literature on Musha, Koshti and Puta from classical text books as per different authors. | |
| | | • Identify modern/presently available Yantras based on the classical concept of Musha, Koshti and Puta. | |
| | | | |
| | | Actvity | |
| | | Students are to be divided into 4 groups Group I- is allotted to prepare video/ppt demonstration | |
| | | Group II- Model preparation of Musha, Koshthi and Puta | |
| | | Group III- Literature collection from classical text books as per different authors on Musha, Koshthi and Puta | |
| | | Group IV - Modern / Presently available Yantras based on the classical concept of our yantra, Musha, Koshthi and Puta | |
| | | Note: Every year different yantras/ instruments need to be given | |

| | | Discussion and Conclusion: Each group has to present their activity followed by teacher's remark | |
|---------|--|--|---|
| CO1,CO2 | Paper I- 6. Kalpana Nirmana I(Primary & Secondary dosage forms) | Objective:- After completing this activity, students will be able to: | 4 |
| | | Identify the different dosage forms that are commonly used in Ayurveda. Appraise the different methods that are used to prepare these dosage forms. Document the different activities that are performed at home and in communities/societies related to the preparation of these dosage forms. Prepare two dosage forms in the laboratory from their observation of home preparations. | |
| | | Methodology:1. Every student will document different activities performed at home and in societies/communities related to the preparation of different dosage forms which come under Panchavidha kashaya kalpana , Upakalpana and their household applications.(for example-fruit juices belong to svarasa kalpana, chutney to kalka etc.)Discussion:1. The students will be assessed based on their documentation2. A group containing 10 number of students will be asked to collect the raw materials and prepare | |

| | | minimum two numbers of dosage forms in the laboratory from their observation of home preparations.3. Finally an interactive session will be held to discuss the learning experiences and to clear doubts | |
|-----|---|--|----|
| CO5 | Paper I- 7 & 11. Kalpana Nirmana II &III (Method of preparation of different dosage forms & dietary supliments) | objective: - After completing this activity, students will be able to: Identify the different dosage forms that are commonly used in Ayurveda. Appraise the different methods that are used to prepare these dosage forms. Document the different activities researches related to the preparation of these dosage forms. | 10 |
| | | Methodology: - 1.Students need to be divided into 4 different groups. 2.Group 1 - Directed to collect information on different varieties of proprietary Ayurvedic and contemporary solid dosage forms available in the market through e-resources (e.g. tablets, capsules, lozenges etc) 3.Group 2- Directed to collect information on different varieties of proprietary Ayurvedic and contemporary Liquid dosage forms available in the market through e-resources (e.g. Oils, syrups, suspensions etc) 4.Group 3 - Directed to collect information on | |

| | | different varieties of proprietary Ayurvedic and contemporary semisolid dosage forms available in the market through e-resources (e.g. ointments, gels, jellies etc) | |
|-------------|--|---|---|
| | | 5. Group 4 - Directed to collect research articles published on modification of classical Ayurvedic dosage forms through e-resources on solid, liquid and semisolid dosage forms. | |
| | | Discussion: -Finally Students have to present the collected information in the form of power point presentation and submit the assignment. | |
| | | In charge teacher has to conclude by stressing upon scope for research and development in modification of classical dosage forms. | |
| | | The mentioned activity is an example. | |
| | | Note: Every year different formulations/ dosage forms/ activity need to be given. | |
| CO1,CO2,CO3 | Paper I- 8.Rasa Dravya Parichaya - I MK | Objecives:- | 4 |
| | | After completing this activity, students will be able to: | |
| | | • Justify the importance of identifying genuine Rasa Dravyas. | |
| | | • Learn to interpret classical and mineralogical criteria for identifying Rasa Dravyas. | |
| | | • Communicate findings effectively | |
| | | Method of Activity: | |
| | | 1. Students are to be divided into 4 to 5 groups | |
| | | | |

| | | must to know dravya list). | |
|-------------|--|--|---|
| | | 3. Students will be instructed to collect raw samples/ Pictures / Photos of assigned Rasa Dravya | |
| | | 4. Students have to interpret classical as well as mineralogical criteria for identifying that Rasa Dravya. | |
| | | 5. Encourage them to develop the skill of identification of various Rasa Dravyas and to understand its necessity. | |
| | | Discussion & Conclusion | |
| | | Each Group has to share the presentation. | |
| | | Finally, teacher has to give concluding remarks. | |
| | | Note: The mentioned activity is an example. | |
| | | Every year different sets of drugs/ activity need to be given. | |
| | | | |
| C01,C02,C03 | Paper I-9.Rasa Dravya Parichaya II - DK | | 6 |
| | | Objectives :- | |
| | | After completing this activity, students will be able to: | |
| | | • Document the different rasa dravyas that are considered to be desirable to know. | |
| | | • Gather information about each rasa dravya, such as its Sanskrit name, English name, synonyms, botanical name, physical appearance, taste, and medicinal properties. | |
| | | • Present the findings in a clear and concise way. | |
| I | I | 1 | I |

| | | • Debate and justify that their drug is more superior than other drugs in the same group. | |
|-----|---|--|---|
| | | Method of Activity: | |
| | | 1. Students are to be divided into 4 groups | |
| | | 2. The students will be instructed to refer and collect photos, general information, medicinal uses from classical text books and e resources. | |
| | | 3. Each group is to be given 2 drugs. | |
| | | 4. The mentioned activity is an example. Every year different rasadravya / activity need to be given. | |
| | | Discussion: | |
| | | After the completion of compilation of desirable to know Rasa Dravya, each group will present short review of their work in front of the class and they have to debate and justify that their drug is more superior than other drugs in the same group. Finally, teacher have to give concluding remark on debate. | |
| CO3 | Paper I- 10.Rasa Dravya Parichaya - III NK | | 6 |
| | | Objectives :- After completing this activity, students will be able to: | |
| | | • Document the different rasa dravyas that are considered to be desirable to know. | |
| | | • Gather information about each rasa dravya, such as its Sanskrit name, English name, synonyms, botanical name, physical appearance, | |

taste, and medicinal properties.

• Present the findings in a clear and concise way.

• Debate and justify that their drug is more superior than other drugs in the same group. To compile, understand and document basic information about certain Rasa Darvyas. (this activity is for nice to know dravyas)

Methodology:

1. Students are to be divided into 4 groups

2. The students will be instructed to refer and collect photos, general information, medicinal uses of given dravyas from classical text books and e resources.

3. Each group is to be given 4 drugs.

4. The mentioned activity is an example. Every year different drugs/ activity need to be given.

Discussion:

After the completion of compilation of nice to know Rasa Dravya, each group will present short review of their findings, in front of class and they have to debate and justify that their drugs are more superior than other drugs. Finally, teacher have to give concluding remark on debate.

Note: Every year different drugs are to be given.

| CO1,CO2,CO3,CO5 | Paper I - 12.Chaturvidha Rasayana -MK | Objectives:- • Collect information on different Chaturvidha Rasa formulations. | 4 |
|-----------------|--|---|---|
| | | • Identify the different manufacturing companies that produce Chaturvidha Rasa formulations. | |
| | | • appraise the different classical references that are used to manufacture Chaturvidha Rasa formulations. | |
| | | • Compare the MRP (prices) of different Chaturvidha Rasa formulations. | |
| | | • Identify the indications for different Chaturvidha Rasa formulations. | |
| | | • Analyze the different Chaturvidha Rasa formulations and develop critical thinking skills. | |
| | | • Communicate their findings effectively to the class. | |
| | | | |
| | | Method of Activity: (Survey) | |
| | | Students are to be divided into 5 groups | |
| | | 1. Group 1- Need to be assigned to collect information on Swarna Bhasma manufacturing companies, classical references they follow to manufacture it, MRP (prices) and indications | |
| | | 2. Group 2- Need to be assigned to collect varieties of parpati containing suvarna bhasma as one ingredient in it, their manufacturing companies, classical references they follow to manufacture it, MRP (prices) and indications | |
| | | 3. Group 3- Need to be assigned to collect varieties of kupipakwa rasayanas containing suvarna bhasma as one ingredient in it, | |

| | | manufacturing companies, classical references they follow to manufacture it, MRP (prices) and indications | |
|-----|--|---|---|
| | | 4. Group 4 - Need to be assigned to collect varieties of pottali rasayanas containing suvarna bhasma as one ingredient in it, manufacturing companies, classical references they follow to manufacture it, MRP (prices) and indications | |
| | | 5. Group 5 - Need to be assigned to collect varieties of kharaliya rasayanas containing suvarna bhasma as one ingredient in it, manufacturing companies, classical references they follow to manufacture it, MRP (prices) and indications | |
| | | 6.The mentioned activity is an example. Every year different formulations/ activity need to be given. | |
| | | Discussion: All groups have to present their assignment and finally in charge teacher has to give conclusion of importance of swarnakalpa. rationality behind following different references and probable variation in their cost. | |
| CO1 | Paper I- 13.Current and Emerging Trends in Ayurvedic pharmaceuticals | Objectives: - | 4 |
| | | • Identify the current and emerging trends in Ayurvedic Pharmaceuticals. | |
| | | • Analyze the potential impact of these trends on the future of Ayurvedic Pharmaceuticals. | |
| | | • Review and record the commonly used modified dosage forms of Ayurvedic | |

| Evaluate the potential of these modified dosage forms to improve the efficacy and safety of Ayurvedic formulations. Method of Activity Students need to be divided into 3 groups Group 1. List the current and emerging trends in Ayurvedic Pharmaceuticals viz. cosmetics, Neutraceuticals, Herbaceuticals Group 2. Review and record the commonly used modified dosage forms of Ayurvedic formulations Group 3. Generate a folder on computer about relevant research articles on modified Ayurvedic dosage forms Discussion : All the above groups will present their assignment with their team and Exchange of Knowledge will take place followed by conclusion by faculty in charge |
|--|
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| relevant research articles on modified Ayurvedic dosage forms Discussion : All the above groups will present their assignment with their team and Exchange of Knowledge will take place followed by conclusion by faculty in charge |
| their assignment with their team and Exchange of Knowledge will take place followed by conclusion by faculty in charge |
| |
| CO4Paper I - 14. GMP &4Drug and Cosmetic actObjective:1040 and miles 1045 |
| 1940 and rules 1945 After completing this activity, students will be able to: |
| • Identify misleading advertisements under the Drug & Magic Remedies objectionable advertisements Act, 1954. |
| • Analyze misleading advertisements and identify the specific provisions of the Act that are being violated. |

| | | • Communicate their findings in a clear and concise way. | |
|-----|--|---|---|
| | | Methodology: - | |
| | | Students are to be divided into 5 students in each group | |
| | | 1.Each group need to report two misleading advertisements under Drug & Magic Remedies - objectionable advertisements Act, 1954 advertising through TV channels, print media or electronic media etc. | |
| | | 2. The students will ask to submit details of objectionable advertisements in the prescribed format. | |
| | | Discussion: - | |
| | | After the submission of reports, the students will be asked to present and an interaction will be held between students and the concerned teacher (s) to understand the act & rules of objectionable advertisements as a learning experience. | |
| CO1 | Paper II -1. Aushadhi Prayoga Vigyana | Objective: | 2 |
| | | After completing this activity, students will be able to: | |
| | | • Understand the concept of Prashasta Bheshaja lakshana. | |
| | | • Identify the different aspects of Prashasta Bheshaja lakshana, such as bahu kalpam, bahugunam, and sampannam. | |

| | | Gather information about a given drug/formulation and justify whether it is a Prashasta Bheshaja. Communicate their findings in a clear and concise way. | |
|---------|---|---|---|
| | | Method of Activity | |
| | | Students will be divided in Groups consisting of 10 Students in each group each group will be given one drug/Formulation | |
| | | They have to search information about Prashasta bheshaja on following aspects- 1.Bahu Kalpam | |
| | | 2.Bahugunam 3.Sampannam | |
| | | justify that the drug which they are allotted drug/formulation Each team will present their Justification followed by conclusion by designated faculty. | |
| C01,C03 | Paper II- 2.Single drug (Herbal & Mineral) | Objective: | 2 |
| | | After completing this activity, students will be able to demonstrate their knowledge of herbal and mineral drugs by: | |
| | | • Identifying and differentiating between | |

different types of herbal and mineral drugs, with at least 5 examples of each.

• Understanding the different formulations of herbal and mineral drugs, with at least 3 examples of each formulation.

• Learning about the different indications for herbal and mineral drugs, with at least 3 examples of each indication.

• Learning about the different anupanas that can be used with herbal and mineral drugs, with at least 3 examples of each anupana.

• Understanding the importance of pathyaapatya, sevana kala, and saveeryatavadhi in the administration of herbal and mineral drugs.

• Communicating their findings in a clear and concise way, including a presentation to the class that is clear, concise, and answers questions about the drugs.

Method of Activity

1. Students need to divided into groups as per convenience

2. Each group need to be assigned with one herbal or one mineral drug or from both categories

3. Advised to collect information on assigned single drug/drugs variety of formulations, different indications when given in different form, with different anupana, Pathyaapatya, sevana kala, saveeryatavadhi and research updates and clinical evidences for each of the formulations

4. Every year different drugs are to be allotted to avoid repetition.

| C01,C02,C03 | Paper II -3.Single Drug (Bhasma, Shuudha & Pishti)- Mk | Objective | 6 |
|-------------|--|---|---|
| | | After completing this activity, students will be able to demonstrate their knowledge of market research by: | |
| | | • Conducting a market survey of one or two bhasmas in a particular city. | |
| | | • Collecting and documenting information about the market demand for the bhasma, such as the price, the dosage, and the frequency of use. | |
| | | • Analyzing the data collected to determine the market trends for the bhasma. | |
| | | • Communicating their findings in a clear and concise way, including a presentation to the class. | |
| | | | |
| | | Method of Activity: | |
| | | 1. The students instructed to visit Ayurvedic drug store and collect information as given in the format. | |
| | | 2.Students need to be divided into 4 to 5 groups. Each group need to be given 1 to 2 drugs. (Every year different drugs are to be allotted to avoid repetition.) | |
| | | 3.Each group has to visit one to two Ayurvedic drug stores. Number of stores can be increased based on number of drug stores in the city or around the city.(based on information of online survey) | |
| | | After collecting information students have to submit survey forms to department | |
| | | | |
| | | | |

| C01,C02 | Paper II- 4. Aushadhi Kalpa-I(Compound Formulations) | Horizontal Integration Activity with Department of Agada Tantra Objective | 4 |
|---------|--|--|---|
| | | After completing this activity, | |
| | | • Students will be able to demonstrate their knowledge of the preparation and uses of agadas by: | |
| | | • Preparing five different agadas under the guidance of Rasashastra & Bk Dept faculty | |
| | | • Presenting their findings on the ingredients, method of preparation, uses, dosage, anupana, and mode of action of the agadas. | |
| | | • Communicating the utility of the agadas in different conditions, research updates with case studies, and dosage, anupana, and duration of agada kalpa prayoga. | |
| | | | |
| | | Method of Activity | |
| | | Students will be divided into 5 groups | |
| | | Each group will get hands on training to prepare one peculiar agada (mentioned in following list) and faculty from Agada Tantra department will give information about its utility in different Visha Laxana/or Stages of visha dushta.All details about agada kalpa prayoga viz.Dosage, Anupana, Duration will be discussed -2hrs | |
| | | Team 1: Bilavdi Agada | |
| | | Team 2: Dooshivishari Agada | |
| | | Team 3: Dashanga Agada | |
| | | Team 4: Murvadi Agada | |
| | | Team 5: Pancha Shireesha Agada | |
| | | Presentation will be done by all Teams on | |

| | | Ingredients, Method of Preparation, Video/ Photos of ingredients, preparation, uses, dosage, Anupana Every year different topics are to be selected for integrated activity. Repetition should be avoided. Discussion will be done on mode of action, utility of above prepared Agadas in different conditions, Research updates with Case studies by Agada Tantra Faculty | |
|-----|---|---|---|
| CO3 | Paper II - 5. Aushadhi Kalpa - II(Compound drugs/ formulations) | Objective After completing this activity, students will be able to: • Identify the different types of research updates and clinical evidences that are available for the formulations listed in the syllabus Aushadhi Kalpa - II(Compound drugs/ formulations). • Collect and compile research updates and clinical evidences for the formulations assigned to them. • Review the research updates and clinical evidences to determine their relevance and significance. • Communicate their findings in a clear and concise way. Methodology of Activity : 1.Students are to be divided into 5 to 6 groups 2.Each group is to be assigned 2 to 3 formulations in the syllabus. | 2 |

| | | 3.Groups are instructed to collect Research updates and clinical evidences for formulations assigned to them 4. Every year different formulations are to be allotted to avoid repetition. Submission of Assignment: After the completion of compilation groups have to submit the assignment for correction. | |
|-----|--|---|---|
| CO4 | Paper II - 6 Dosage forms & cosmetic productsPaper II- 7. Nutraceuticals | objective After completing this activity, students will be able to: • Identify the different types of cosmetic and nutraceutical products. • Understand the legal and regulatory requirements for these products. • Research the market for these products. • Analyze the quality control tests that are recommended for these products. • Prepare a report/assignment on the selected products. • Communicate their findings in a clear and concise way. • Answer questions about their findings. • Communicate the significance of various guidelines used for testing of food products and cosmetics in brief. | 3 |

| Methodology: - |
|--|
| 1. Students are to be divided into 5-6 groups |
| 2. Each group need to be given one to two cosmetic or nutraceutical products for eg. Lipstick, lip balm, Energy drink, Nutritional supplement for children, working women, pregnant women etc. |
| 3.The students will be asked to prepare a report/assignment on number of companies selling such products. Information should be compiled about their major ingredients, preservatives, price, market value, quality control tests recommended etc. |
| 4. For that Nutritional Product, the students will be asked to go through the quality parameters and nutritional values displayed on packages of food products as per the guidelines of Food Safety and Standards Authority of India (FSSAI). |
| 5. Every year different products are to be allotted to avoid repetition |
| Discussion: - After the submission of reports, a discussion will be held among the students and the teacher(s) to understand the significance of various guidelines used for testing of food products and cosmetics in brief. |
| Optional Activity |
| Objectives- |
| after completion of the course students should be able to prepare dosage forms and self care products in the syllabus. |

| | | Online/offline mode in collaboration with Pharmacy college Dosage Forms & Self-care Products Assessment through MCQ's Duration of the course may be 22hrs including online assessment | |
|-------------|--|---|---|
| CO1,CO3,CO6 | Paper II- 8 Anupana Prayoga for Aushadhi KalpaPaper II- 9. Aushadhi Prayoga Marga | Objective After the completion of this activity • Students should be able to explain/present the probable pharmacokinetic and pharmacodynamic principles of assigned Ayurvedic drugs & Anupana in different condition or indication Method of Activity: - 1.Students will be divided into 5 to 6 groups 2.Each group need to be allotted formulations/ single drug/Bhasma/Pishti etc 3.Students are asked to explain the therapeutic importance of five formulations with respect to different Anupana, Aushadhiprayoga marga and their utility in different disorders with the probable pharmacokinetic and pharmacodynamic principles involved in the use of assigned Ayurvedic drugs. 4. students have to submit assignment / sharing ppt presentation in the activity group Discussion: - After the completion of this task, students should be able to explain/present the probable pharmacokinetic and pharmacodynamic principles of assigned Ayurvedic drugs. In charge teacher has to conclude on collection of compiled matter and drugs action. | 2 |

| CO3 | Paper II 10. Rational prescription along with safe dispensing of Ayutrvedic formulations. | Objective After completing this activity, students will be able to: | 4 |
|-----|--|--|---|
| | | • Identify the different components of a prescription. | |
| | | • Analyse the prescriptions to determine whether they are rational. | |
| | | • Discuss the significance of ideal prescription and rationality of use of drugs in Ayurveda. | |
| | | | |
| | | Methodology: - | |
| | | 1.Students are to be divided into 4 to 5 groups | |
| | | 2.Each group is advised to collect 4 to 5 prescriptions from different departments of the hospital. | |
| | | 3. The students are asked to visit hospital to go through the randomly selected five prescriptions for promoting them to know the ideal prescription and rational use of drugs. | |
| | | 4. The students will be asked to present their review of this activity during the non-lecture hours. | |
| | | 5.Strictly instructions should be given to maintain confidentiality about patient's name and consultant's name. | |
| | | Discussion: - | |
| | | After the completion of the task, an interaction will be held among the students and the concerned teacher (s) to understand the | |

| | | significance of ideal prescription and rationality of use of drugs in Ayurvedic practices. | |
|---------|--|--|---|
| CO1,CO5 | Paper II 11. Traditional and local health practices | Objective After completing this activity, students will be able to: • Identify different types of traditional healers in their local area/region. | 4 |
| | | Interview traditional healers to understand their practices. Document the practices of traditional healers in a way that is respectful and preserves their knowledge. Communicate the findings of their research to others. | |
| | | Methodology : 1. To understand the practices of traditional healers/ Folklore healers- the students are instructed to visit and meet some of the folk healers / traditional healers who have been practicing since ages in their local area/region. During their holiday/vacation students can complete this survey in and around the institute or near their residential place. | |
| | | 2. The students may act as a bridge between Ayurveda and traditional/local healers by making them understand the beneficial effect of technology and how this can help the healers to expand their treatment to a larger mass. Because many a times it has been observed that the healers are reluctant or they don't entertain the students who come to meet them for fear of exploitation or theft of their knowledge. | |

| | | 3. By doing this practice, the healers will develop confidence on students which helps in collecting /documenting practices, through which a new horizon may open in the field of medicinal research. | | | | |
|-----|---------------------------------------|--|---|--|--|--|
| | | Discussion: After the completion of the visit, an interaction need to be held among the concerned teachers and students to discuss the learning experiences, and try to find out difficulties so that in future those things can be managed or avoided to make things easier. | | | | |
| CO4 | Paper II 12. Pharmacovigilance for | Objective | 4 | | | |
| | Ayurveda drugs | After completing this activity, students will be able to: | | | | |
| | | • Identify the different types of adverse drug reactions (ADRs). | | | | |
| | | • Describe the detection criteria for ADRs. | | | | |
| | | • Explain the assessment techniques for ADRs. | | | | |
| | | • Discuss the prevention criteria for ADRs. | | | | |
| | | • Able to fill out an ADR reporting format | | | | |
| | | Methodology: - | | | | |
| | | The students will be asked to visit hospital or go through the previously reported cases to discuss for detection criteria, assessment techniques, understanding and prevention criteria of ADRs. | | | | |
| | | Every student is assigned to fill up the ADR reporting format by allotting imaginary situation/ real case | | | | |
| | | | | | | |

| Discussion: - | |
|--|--|
| After the visit, an interaction will be held among the concerned teacher(s) and the students to discuss the learning experiences, and the importance of ADRs, their assessment and reporting techniques. | |

Hours indicated are included in calculations of Table 3 and 4

 Table 5- Teaching learning method

| Sr No | Teaching learning methods in the course | No of Activities |
|-------|---|------------------|
| 1 | Lecture | 15 |
| 2 | Lecture with Power point presentation | 82 |
| 3 | Lecture & Group Discussion | 25 |
| 4 | Lecture with Video clips | 14 |
| 5 | Discussions | 46 |
| 6 | Brainstorming | 29 |
| 7 | Inquiry-Based Learning | 25 |
| 8 | PBL | 1 |
| 9 | CBL | 1 |
| 10 | Project-Based Learning | 15 |
| 11 | Team project work | 12 |
| 12 | Blended Learning | 1 |
| 13 | Edutainment | 1 |
| 14 | Mobile learning | 2 |
| 15 | Self-directed learning | 23 |
| 16 | Problem solving method | 2 |
| 17 | Workshops | 1 |
| 18 | Game-Based Learning | 2 |
| 19 | Demo on Model | 2 |
| 20 | Library Session | 7 |

| 21 | Peer learning | 1 |
|----|----------------------|---|
| 22 | Real life experience | 5 |
| 23 | Recitation | 2 |
| 24 | Symposium | 1 |
| 25 | Tutorial | 2 |
| 26 | Presentations | 2 |
| 27 | Practical | 7 |
| 28 | Drug analysis | 1 |
| 29 | Demonstration | 2 |
| 30 | Demonstration Lab | 4 |
| 31 | Field visit | 2 |

These are overall teaching learning methods listed in Table 3 and 4. Teachers can select the best possible method amongst the given methods as per objective, available time etc.

Table 6: Assessment Summary: Assessment is subdivided in A to H points

6 A-Number of Papers and Marks Distribution

| Subject | Papers | Theory | | Practical/Clinical Assessment | | | | |
|---------|--------|--------|-----------|-------------------------------|----------|----|--------------|----------------|
| Code | | | Practical | Viva | Elective | ΙΑ | Sub Total | Grand Total |
| AyUG-RB | 2 | 200 | 100 | 70 | - | 30 | 200 | 400 |

6 B - Scheme of Assessment (formative and Summative)

| PROFESSIONAL | DURATION OF PROFESSIONAL COURSE | | | | |
|--------------|---------------------------------|------------------------------|------------------------------|--|--|
| COURSE | First Term (1-6 Months) | Second Term (7-12 Months) | Third Term (13-18 Months) | | |
| Second | 3 PA & First TT | 3 PA & Second TT | 3 PA & UE ** | | |

PA: Periodical Assessment; TT: Term Test; UE: University Examinations.

** University Examination shall be on entire syllabus

6 C - Calculation Method for Internal assessment Marks

| | PERIODICAL ASSESSMENT* | | | | | TERM TERM TEST** ASSESSMENT | | |
|----------|---|-----------------|-----------------|--------------------------|--|--|----------------------------|------------------------------|
| | A 2 | В | С | D | Е | F | G | Н |
| TERM | 1 (15 Marks) | 2 (15 Marks) | 3 (15 Marks) | Average (A+B+C/ 3) | Converted to 30 Marks (D/15*30) | Term Test (Marks converted to 30) | Sub Total _/60 Marks | Term Ass essment (/30) |
| FIRST | | | | | | | E+F | (E+F)/2 |
| SECOND | | | | | | | E+F | (E+F)/2 |
| THIRD | | | | | | NIL | | Е |
| Final IA | Average of | Three Term | Assessment | Marks as Sh | own in 'H' C | column. | • | |
| | Maximum Marks in Parentheses *Select an Evaluation Method which is appropriate for the objectives of Topics from the Table 6 D for Periodic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert to 30 marks. | | | | | | | |

6 D - Evaluation Methods for Periodical Assessment

| S. No | Evaluation Methods |
|-------|---|
| 1 | Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3 |

Evaluation Methods in MSE

- 1. Practical / Clinical Performance
- 2. Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
- 3. Open Book Test (Problem Based)
- 4. Summary Writing (Research Papers/ Samhitas)
- 5. Class Presentations; Work Book Maintenance
- 6. Problem Based Assignment
- 7. Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
- 8. Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
- 9. Small Project etc.

II PROFESSIONAL BAMS EXAMINATIONS AyUG-RB PAPER-1

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory

| | | Number of Questions | Marks per question | Total Marks |
|-----|---------------------------------|------------------------|-----------------------|-------------|
| Q 1 | MULTIPLE CHOICE QUESTIONS (MCQ) | 20 | 1 | 20 |
| Q 2 | SHORT ANSWER QUESTIONS (SAQ) | 8 | 5 | 40 |
| Q 3 | LONG ANSWER QUESTIONS (LAQ) | 4 | 10 | 40 |
| | | | | 100 |

Similar for Paper II

6 F Distribution of theory examination

| Paper 1 Ayurvediya Aushadhi Nirmana Vigyana | | | | | | |
|---|---|-----------|------------|-----------------|------------------|----------------------|
| Sr. No | A List of Topics | B Term | C Marks | MCQ (1 Mark) | SAQ (5 Marks) | LAQ (10 Marks) |
| 1 | 1.Chronological development of Ayurvediya Aushadhi Nirmana | 1 | 05 | No | Yes | No |
| 2 | 2.Paribhasha (Terminology) | 1 | 10 | Yes | Yes | No |
| 3 | 3.Adharbhuta Siddhanta (Application of fundamental principles) | 1 | 05 | Yes | Yes | No |
| 4 | 4.Yantropakaranani- I (Equipments and machineries) | 1 | 05 | Yes | Yes | No |
| 5 | 5.Yantropakaranani -II (Equipments, fuel and Heating Devices) | 1 | 05 | Yes | Yes | No |
| 6 | 6.Kalpana Nirmana I (Primary & Secondary dosage forms) | 1 | 10 | Yes | Yes | Yes |
| 7 | 7.Kalpana Nirmana-II (Method of Preparation of different dosage forms& Dietary Supplements)) | 1 | 10 | Yes | Yes | Yes |
| 8 | 8.Rasa Dravya Parichaya- I | 2 | 10 | Yes | Yes | Yes |
| 9 | 9.Rasa Dravya Parichaya II | 2 | 5 | Yes | Yes | No |
| 10 | 10.Rasadravya Parichaya III | 2 | 5 | Yes | No | No |
| 11 | 11.Kalpana Nirman -III (Method of Preparation of different dosage forms) | 2 | 10 | Yes | Yes | Yes |
| 12 | 12.Chaturvidha Rasayana | 2 | 10 | Yes | Yes | Yes |
| 13 | 13.Current and emerging trend in Ayurvedic pharmaceuticals | 3 | 5 | No | Yes | No |

| 14 | 14.GMP(Schedule T) & Regulatory aspects of Ayurvedic drugs | 3 | 5 | Yes | Yes | No |
|------|---|---|-----|-----|-----|----|
| Tota | al Marks | | 100 | | | |

| Paper 2 Ayurvediya Aushadhi Prayoga Vigyana | | | | | | |
|---|--|-----------|------------|-----------------|------------------|----------------------|
| Sr. No | A List of Topics | B Term | C Marks | MCQ (1 Mark) | SAQ (5 Marks) | LAQ (10 Marks) |
| 15 | 1.Aushadhi Prayoga Vigyana | 1 | 5 | Yes | Yes | No |
| 16 | 2.Single drug (Herbal & Mineral) | 1 | 10 | Yes | Yes | Yes |
| 17 | 3.Single drug(Bhasma, Shuddha & Pishti) | 2 | 15 | Yes | Yes | Yes |
| 18 | 4.Aushadhi Kalpa -I (Compound formulations) | 2 | 15 | Yes | Yes | Yes |
| 19 | 5.Aushadhi Kalpa-II (Compound Drugs/Formulations) | 3 | 15 | Yes | Yes | Yes |
| 20 | 6.Dosage Forms & Cosmetic Products | 3 | 5 | Yes | Yes | No |
| 21 | 7.Nutraceuticals | 3 | 5 | Yes | Yes | No |
| 22 | 8.Anupana Prayoga for Aushadhi Kalpa | 3 | 5 | Yes | Yes | No |
| 23 | 9.Aushadhi Prayoga Marga | 3 | 10 | Yes | Yes | Yes |
| 24 | 10.Rational prescription along with safe dispensing of Ayurvedic formulations. | 3 | 5 | No | Yes | No |
| 25 | 11.Traditional & Local health Practices | 3 | 5 | No | Yes | No |
| 26 | 12.Pharmacovigilance for Ayurveda drugs | 3 | 5 | Yes | Yes | No |
| Total Marks 100 | | | | | | |

| Paper No:1 | Turne of Question | Oraction Borrow Format |
|-------------|--|--|
| Question No | Type of Question | Question Paper Format |
| Q1 | Multiple choice Questions 20 Questions 1 mark each All compulsory Must know part - 15 MCQ Desirable to know - 3 MCQ Nice to know part - 2 MCQ | 2. Paribhasha (Terminology) 2. Paribhasha (Terminology) 3. 2. Paribhasha (Terminology) 4. 4. Yantropakaranani - I (Equipments and machineries) 5. 5. Yantropakaranani - II (Equipments, fuel and Heating Devices) 6. 6. Kalpana Nirmana I (Primary & Secondary dosage forms) 7. 6. Kalpana Nirmana I (Primary & Secondary dosage forms) 8. 6. Kalpana Nirmana I (Primary & Secondary dosage forms) 9. 7. Kalpana Nirmana I (Primary & Secondary dosage forms) 9. 7. Kalpana Nirmana I (Primary & Secondary dosage forms) 9. 7. Kalpana Nirmana-II (Method of Preparation of different dosage forms & Dietary Supplements)) 10. 7. Kalpana Nirmana-II (Method of Preparation of different dosage forms & Dietary Supplements)) 11. 8. Rasa Dravya Parichaya- I 12. 8. Rasa Dravya Parichaya- I 13. 8. Rasa Dravya Parichaya- I 14. 8. Rasa Dravya Parichaya II 16. 10. Rasadravya Parichaya III 17. 11. Kalpana Nirman -III (Method of Preparation of different dosage forms) 18. 12. Chaturvidha Rasayana 19. 12. Chaturvidha Rasayana 20. 14. GMP(Schedule T) & Regulatory aspects of Ayurvedic drugs |
| Q2 | Short answer Questions Eight Questions 5 Marks Each All compulsory Must know - 7 SAQ Desirable to know - 1 SAQ No questions on Nice to know | 1. 1.Chronological development of Ayurvediya Aushadhi Nirmana 2. 3.Adharbhuta Siddhanta (Application of fundamental principles) / 2.Paribhasha (Terminology) 3. 9.Rasa Dravya Parichaya II / 4.Yantropakaranani- I (Equipments and machineries) / 5.Yantropakaranani -II (Equipments, fuel and Heating Devices) 4. 6.Kalpana Nirmana I (Primary & Secondary dosage forms) 5. 7.Kalpana Nirmana-II (Method of Preparation |

| | | of different dosage forms& Dietary Supplements)) 6. 9.Rasa Dravya Parichaya II / 8.Rasa Dravya Parichaya- I 7. 12.Chaturvidha Rasayana 8. 14.GMP(Schedule T) & Regulatory aspects of Ayurvedic drugs / 13.Current and emerging trend in Ayurvedic pharmaceuticals |
|------------------------|---|--|
| Q3 | Long answer Questions Four Questions 10 marks each All compulsory All questions on must know. No Questions on Nice to know and Desirable to know | 1. 6.Kalpana Nirmana I (Primary & Secondary dosage forms) 2. 7.Kalpana Nirmana-II (Method of Preparation of different dosage forms& Dietary Supplements)) 3. 8.Rasa Dravya Parichaya- I 4. 11.Kalpana Nirman -III (Method of Preparation of different dosage forms) / 12.Chaturvidha Rasayana |
| Paper No:2 Question No | Type of Question | Question Paper Format |
| Q1 | Multiple choice Questions 20 Questions 1 mark each All compulsory Must know part - 15 MCQ Desirable to know - 3 MCQ Nice to know part - 2 MCQ | 1. 1.Aushadhi Prayoga Vigyana 2. Single drug (Herbal & Mineral) 3. 2.Single drug (Behasma, Shuddha & Pishti) 5. 3.Single drug(Bhasma, Shuddha & Pishti) 6. 3.Single drug(Bhasma, Shuddha & Pishti) 7. 3.Single drug(Bhasma, Shuddha & Pishti) 8. 4.Aushadhi Kalpa -I (Compound formulations) 9. 4.Aushadhi Kalpa -I (Compound formulations) 10. 4.Aushadhi Kalpa -I (Compound formulations) 11. 4.Aushadhi Kalpa -I (Compound formulations) 12. 5.Aushadhi Kalpa -I (Compound Drugs/Formulations) 13. 5.Aushadhi Kalpa-II (Compound Drugs/Formulations) 14. 5.Aushadhi Kalpa-II (Compound Drugs/Formulations) 15. 5.Aushadhi Kalpa-II (Compound Drugs/Formulations) |

| Q2 | Short answer Questions Eight Questions 5 Marks Each All compulsory Must know - 7 SAQ Desirable to know - 1 SAQ No questions on Nice to know | 17. 7.Nutraceuticals 18. 8.Anupana Prayoga for Aushadhi Kalpa 19. 9.Aushadhi Prayoga Marga 20. 12.Pharmacovigilance for Ayurveda drugs 1. 8.Anupana Prayoga for Aushadhi Kalpa / 1.Aushadhi Prayoga Vigyana 2. Single drug (Herbal & Mineral) 3. Single drug(Bhasma, Shuddha & Pishti) 4. Aushadhi Kalpa -I (Compound formulations) 5. 5.Aushadhi Kalpa-II (Compound Drugs/Formulations) 6. 7.Nutraceuticals 7. 9.Aushadhi Prayoga Marga 8. 12.Pharmacovigilance for Ayurveda drugs / 10.Rational prescription along with safe dispensing of Ayurvedic formulations. / 6.Dosage Forms & Cosmetic Products / 11.Traditional & Local health Practices |
|----|---|--|
| Q3 | Long answer Questions Four Questions 10 marks each All compulsory All questions on must know. No Questions on Nice to know and Desirable to know | 2.Single drug (Herbal & Mineral) / 9.Aushadhi Prayoga Marga 3.Single drug(Bhasma, Shuddha & Pishti) 4.Aushadhi Kalpa -I (Compound formulations) 5.Aushadhi Kalpa-II (Compound Drugs/Formulations) |

6 H Distribution of Practical Exam

| S.No | Heads | Marks |
|------|--|-------|
| 1 | | 30 |
| | 1.Spotting (10 sample + 5 Instruments/ equipments) | |
| | Identification (1 mark) answering sub question related to spotter(1 | |
| | mark) 15x2=30 marks Choose | |
| | spotter from below mentioned list | |
| | | |
| | 1. Parada (mercury), | |
| | 2. Abhraka (Biotite Mica), | |
| | 3. Makshika (Chalco-pyrite), 4. Shilaiatu (Asphaltum Dunishianum) | |
| | 4. Shilajatu(Asphaltum Punjabianum) 5. Gandhaka (Sulfur) | |
| | 6. Gairika(Red Ochre) | |
| | 7. Kankshi (Alum) | |
| | 8. Haratala (Orpiment) | |
| | 9. Manahshila (Realgar) | |
| | 10. Kampillaka(Mallotus Philippinensis) | |
| | 11. Navasadara (Ammonium chloride) | |
| | 12. Hingula (Red Cinnabar) | |
| | 13. Tamra (Copper) | |
| | 14. Loha (Iron) | |
| | 15. Mandur (rust iron) | |
| | 16. Vanga (Tin) | |
| | 17. Naga (Lead) | |
| | 18. Yashada (Zinc) 10. Provala (Corol) | |
| | 19. Pravala (Coral) 20. Kaparda (Cowries) | |
| | 21. Shukti (Oyster Shell) | |
| | 22. Shankh (Conch Shell) | |
| | 23. Godanti (Gypsum) | |
| | 24. Samudraphena (Cattle Fish bone) | |
| | 25. Kukkutanda twak (Hen's EggShell), | |
| | 26. Tankana kshara (Borax) | |
| | 27. Sasyaka (Peacock ore) | |
| | 28. Kasisa (Green Vitriol), | |
| | 29. Gauri pashana (Arsenic oxide) | |
| | 30. Akika(Agate), | |
| | 31. Sudha (Lime stone) | |
| | 32. Khatika | |
| | 33. Dugdhapashana (Talc) | |
| | 34. Vimala | |
| | 35. Rasaka | |
| | 36. Yantra | 1 |

| | 37. Dola Yantra | |
|---|--|----|
| | 38. Damaru Yantra 39. Valuka Yantra | |
| | 40. Puta Yantra | |
| | 41. Khalwa Yantra | |
| | 42. Patana Yantra | |
| | 43. Darvika Yantra | |
| | 44. Ulukhala Yantra | |
| | 45. Patala Yantra | |
| | 46. Kupi Yantra | |
| | 47. Arkapatana Yantra | |
| | 48. Pithara Yantra | |
| | 49. Sharava Yantra | |
| | 50. Palika Yantra | |
| | 51. Sthali Yantra 52. Swedana Yantra | |
| | 52. Swedana Yantra 53. Moh's scale | |
| | 53. Mon's scale 54. Tablet Hardness tester | |
| | 55. Ph Meter | |
| | 56. Muffle Furnace | |
| | 57. Electronic Weighing machine | |
| | 58. Pycnometer | |
| | 59. Large scale manufacturing instruments & equipments in the | |
| | syllabus Photos /Pictures may be used for spotting | |
| | | |
| | | |
| 2 | 2. Long Practical | 40 |
| | | |
| | • Selection of Ingredients with proportion(10Marks) | |
| | • Preparation following SOP (15 marks) | |
| | • Demonstration of Siddhi lakshana(05Marks) | |
| | • on site viva (10 Marks) | |
| | List of Long Practicals | |
| | | |
| | 1. Sitopaladi churna | |
| | · | |
| | 2. Hingwastaka Churn | |
| | 2. Hingwastaka Churn 3. Agni Tundi Vati | |
| | 2. Hingwastaka Churn 3. Agni Tundi Vati 4. Chitrakadi Vati | |
| | 2. Hingwastaka Churn 3. Agni Tundi Vati 4. Chitrakadi Vati 5. Lavangadi Vati | |
| | 2. Hingwastaka Churn 3. Agni Tundi Vati 4. Chitrakadi Vati 5. Lavangadi Vati 6. Triphala Guggulu | |
| | 2. Hingwastaka Churn 3. Agni Tundi Vati 4. Chitrakadi Vati 5. Lavangadi Vati 6. Triphala Guggulu 7. Kaishor Guggulu | |
| | 2. Hingwastaka Churn 3. Agni Tundi Vati 4. Chitrakadi Vati 5. Lavangadi Vati 6. Triphala Guggulu | |

| | 10. Arka Lavana 11. Narikela Lavana 12. Atasi Upanaha 13. Dashanasamskara churna 14. Gandhaka Malahara | |
|-----------|--|----|
| | 12. Atasi Upanaha 13. Dashanasamskara churna | |
| | 13. Dashanasamskara churna | |
| | | |
| | 14. Gandhaka Malahara | |
| | | |
| | 15. Dashanga Lepa | |
| | 16. Mustadi Pramathya | |
| | 17. Shadanga Paneeya | |
| | 18. Kharjuradi Mantha | |
| | 19. Chincha Panaka | |
| | 20. Chandana Panaka | |
| | 21. Ghrita Murchana | |
| | 22. Taila Murchana | |
| | 23. Triphala Ghrita | |
| | 24. Amruta Ghrita | |
| | 25. Ksheera Bala Taila | |
| | 26. Arka Taila | |
| | 27. Vasavaleha | |
| | 28. Nimbu Sharkara | |
| | 29. Kutaja Ghana | |
| | 30. Guduchi Ghana | |
| | 31. Haridra Khanda | |
| | 32. Narikela Khanda | |
| | 33. Ananda Bhairava Rasa | |
| | 34. Tribhuvana Keerti rasa | |
| | 35. Rasa Parpati | |
| | 36. Sweta Parpati | |
| | 37. Laghusutsekhararasa | |
| | 38. Navayasa loha | |
| | 39. Saptamrita loha | |
| | | |
| | Note: for preparation shuddha dravya, decoction,murchita gritha, | |
| 1 | murchita taila etc are to be provided for long practical | |
| | | |
| 3 | | 20 |
| | 3.Short Practical | |
| | | |
| | | |
| | • Selection of Ingredients with proportion(5Marks) | |
| | Preparation following SOP (5 marks) | |
| | Demonstration of Siddhi lakshana(5Marks) | |
| | • on site viva (5 Marks) | |
| | | |
| · · · · · | List of Short Practicals | |
| | | |
| | | |
| | 1. Godanti Shodhana | |
| | | |
| | | |
| | 2. Shankha Shodhana | |

| | 3. Kapardika shodhana | |
|---|--|----|
| | 4. Guggulu Shodhana | |
| | 5. Gandhaka Shodhana | |
| | 6. Vanga Shodhana | |
| | 7. Yashada shodhana | |
| | 8. Abhraka Shodhana | |
| | 9. Tamra Shodhana | |
| | 10. Tankana Shodhana | |
| | 11. Kankshi shodhana | |
| | | |
| | 12. Hingula Shodhana | |
| | 13. Gairika Shodhana | |
| | 14. Hingu Shodhana | |
| | 15. Mugdha Rasa | |
| | 16. Tamra Bhasma (Dadhi/ Nimbu Pariksha) | |
| | 17. Triphala Masi | |
| | 18. Mayura Piccha Masi | |
| | 19. Vasaputapaka Swarasa | |
| | 20. Amruta Satva | |
| | 21. Arjuna Ksheera Paka | |
| | 22. Lashuna Ksheerapaka | |
| | 23. Punarnavashtaka kwatha | |
| | | |
| | 24. Rasna Saptaka Kwatha | |
| | 25. Specific Gravity | |
| | 26. Refractive Index | |
| | 27. PH | |
| | | |
| | | |
| | | |
| | | 10 |
| 4 | | 10 |
| | 4.Practical Record | |
| | | |
| | Four Record books- for each record book 2.5 Marks | |
| | | |
| | | |
| | | |
| | | |
| 5 | | 70 |
| | 5.Viva-Voce | |
| | | |
| | Structure of Viva | |
| | | |
| | 1. Paribhasha – (2 questions 3 marks each) - 6 Marks | |
| | 2. Shodhana, marana –(1 question from each 5 marks each) -10 Marks | |
| | 3. Yantropakarana(2questions 3 marks each) - 6 Marks | |
| | | |
| | 4. Chemical composition Raasadravya(1 questions 2 marks each)-2 | |
| | Marks | |
| | 5. Therapeutic application of single drugs – (2 question 3 marks each) | |
| | -6 marks | |
| | 6. Yoga - (Shloka-3 marks; ingredients-5 marks: indications -5 marks | |
| | | |

| Total Marks | | 200 | |
|-------------|--|-----|--|
| 6 | 6. Internal assessment | 30 | |
| |)-10 Marks 8. D& C act, GMP, FSSAI- 2 Marks 9. Viva on Non Lecture hour activity book-8 Marks 10. Communication skills -5 Marks | | |
| | dose & anupana-2Marks)-15Marks (Select the yoga having at least 5 ingredients) 7. Siddhi lakshana & quality control tests –(2 questions 5 marks each | | |

| S.No | Book | Resources |
|------|--|---|
| 1 | 1. Adyatan Rasa Shastra | R.K. Goyal Chaukhamba Surbharati Prakashan, Varanasi |
| 2 | 2.Ayurvediya Aushadhi gunadharma shastra | Vol I, II, III, IV, V, Gune Gangadharashastri, Gune Bandhu Prakashan |
| 3 | 3. Asava Arishta Vigyanam | Dr. Pakshdhar Jha, Chaukhambha Sanskrit Sansthan, Varanasi |
| 4 | 4. Ayurvediya Rasa Shastra | (Sachitra) Chandrabhusan Jha by Chaukhamba Surbharati Prakashan Varanasi, Reprint 2012 |
| 5 | 5.Ayurvediya Rasa Shastra | Prof. Siddhi Nandan Mishra, Chaukhamba Orientalia, Varanasi |
| 6 | 6.Ayurved Prakash | Vaidya Gulraj Mishra. Chaukhambha Bharati Academy, Varanasi |
| 7 | 7.Drugs and Cosmetic Act - 1940 | Vijay Malik, Eastern Book Company Delhi |
| 8 | 8. Pratyaksha Aushadh Nirmanam | Acharya Vishwanath Dwivedi |
| 9 | 9.Rasa Tarangini | Sadanand Sharma, Motilal Banarasidas, Varanasi |
| 10 | 10.Rasa Bhaishajya Kalpana Vigyan | Vaidya Santosh Kumar Khandal, Choukhamba Publishers, New Delhi |
| 11 | 11.Rasa Ratna Samuchchaya (Hindi) | Dattattreya Ananta Kulkarni, Meharchand Lachamdas Publications,New Delhi |
| 12 | 12.Rasendra Sara Sangraha | Vaidya Gopal Krishna, Chaukhambha Sanskrit Series of Varanasi |
| 13 | 13.Ayurvediya Paribhasha | Indradev Tripathi Chaukhamba Orientalia, Varanasi |
| 14 | 14.Sharangadhara Samhita | Radhakrishna Parashar Vaidyanath Ayurved Bhavan Pvt |
| 15 | 15.Bharatiya Bhaishajya Kalpana Vigyana | Gananath Vishwanath Dwivedi Krishnadas Academy, Varanasi |
| 16 | 16.Ayurvedic formulary of India | Govt. of India Ministry of Health & Family welfare New Delhi |
| 17 | 17.Ayurvedic Pharmacopiea of India | CCRAS Govt. of India Ministry of Health & Family welfare New Delhi |
| 18 | 18.Abhinava Bhaishajya Kalpana | Siddhi Nandan Mishra, Chaukhamba Surbharati Prakasha , Varanasi |
| 19 | 19.Bhaishjya Ratnawali | Prof S N Mishra Choukhamba Publishers, Varanasi |
| 20 | 20.Ayurvediya Rasashastra Ka Udbhava Evam Vikas | Satyendrakumar Arya, Krishnadas Academy, 1984 |

| 21 | 21.Yoga Ratnakar | Shri Laxmipathi Shastri, Chaukhambha Prakashana |
|----|---|--|
| | | Varanasi, Reprint 2018 |
| 22 | 22.A Text book of Rasashastra | Prof. Parimi Suresh Chaukhambha Prakashak, Varanasi |
| 23 | 23.Siddhoushadi Sangraha | Vaidyaratna G. A. Phadke, Ayurvedacharya, Satara, N. H Kolhatkar, Maharashtra mitra Mudranalaya, Shukravara peth, Satara |
| 24 | 24.Application on standardised Namburi phased spot test in identification of Bhasma and Sindura preparations of Ayurveda published | Namburi Hanumantha Rao, CCRAS., New Delhi |
| 25 | 25. Evidence based safety of Ayurvedic herbo-mineral formulations | Kumar Anhimanyu published by CCRAS, New Delhi |
| 26 | 26. Introduction to Ayurvedic Pharmaceutics | Dr Devendra Joshi & Dr Geeta Joshi Chaukhambha Orientalia |
| 27 | 27. A Handbook of Cosmetics | B. M. Mithal & R.N. Saha Published by Delhi Vallabh Prakashana |
| 28 | 28. Sahasrayoga (Sanskrit and Hindi) | Reprint by CCRAS, New Delhi |
| 29 | 29. Manual on Quality Parameters for Ayurveda & Siddha drugs | CCRAS, New Delhi |
| 30 | 30.Safety and Prescription Trends of Rasaushadhis | Critical appraisal of Reported Medical Practices of Ayurveda Herbomineral formulations from CCRAS experience. |
| 31 | 31. General Guidelines for Drug Development of Ayurvedic Formulations | CCRAS New Delhi, Volume I 1 st Edn. 2018 |
| 32 | 32. General Guidelines for Safety/Toxicity Evaluation of Ayurvedic Formulations | CCRAS New Delhi, Volume II 1 st Edn. 2018 |
| 33 | 33.General Guidelines for Clinical Evaluation of Ayurvedic Interventions | CCRAS New Delhi, Volume III 1 st Edn. 2018 |
| 34 | 34. WHO internationalstandard terminologies on Ayurveda | WHO International Standard Terminology on Ayurveda, WHO 2022 |
| 35 | 35,Inorganic Pharmaceutical Chemistry | Gundu Rao P, Vallabha Prakashana |
| 36 | 36, Organic Pharmaceutical Chemistry | Singh Harkishan;Kapoor V K, Vallabha Prakashana |

| 37 | 37 Shlokavali of Rasashastra Bhaishajya Kalpana | Ninad Sathye;Shivaji Wavhal, Shantanu Prakashan Pune, 2009 | | |
|----|--|--|--|--|
| 38 | 38. Ansel"s Pharmaceutical Dosage Forms and Drug Delivery Systems | Loyd V Allen : Others, 9th volume, Lippincott Williams & Willkins Wolters Kluwer Co.2011 | | |
| 39 | 39. Laboratory Guide for the Analysis of Ayurveda and Siddha Formulations | Lavekar G S,Central Council For Research in Ayurveda & Siddha,2010 | | |
| 40 | 40. Pharmaceutics I & II | Mehta R M, Vallabha Prakashana, 2014 | | |
| 41 | 41.Central Drugs Standard Control Organization Directorate General of Health Services Ministry of Health & Family Welfare Government of India | https://cdsco.gov.in/opencms/opencms/en/Home/ | | |
| 42 | 42. FSSAI official website | https://www.fssai.gov.in/ | | |
| 43 | 43.PHARMACOPOEIA COMMISSION FOR INDIAN MEDICINE & HOMOEOPATHY OFFICIAL WEBSITE | https://pcimh.gov.in/ | | |

Abbreviations

Assessment

| S.No | S.No Short form Discription | | | | |
|------|-----------------------------|-------------------------------|--|--|--|
| 1 | T-EMI | Theory extended matching item | | | |
| 2 | T- EW | Theory Essay writing | | | |
| 3 | T- MEQs | Theory MEQs | | | |
| 4 | T-CRQs | Theory CRQs | | | |
| 5 | T-CS | Theory case study | | | |
| 6 | T-OBT | Theory open book test | | | |
| 7 | P-VIVA | Practical Viva | | | |
| 8 | P-REC | Practical Recitation | | | |
| 9 | P-EXAM | Practical exam | | | |
| 10 | PRN | Presentation | | | |
| 11 | P-PRF | Practical Performance | | | |
| 12 | P-SUR | Practical Survey | | | |
| 13 | P-EN | Practical enact | | | |
| 14 | P-RP | Practical Role play | | | |
| 15 | P-MOD | Practical Model | | | |
| 16 | P-POS | Practical Poster | | | |
| 17 | P-CASE | Practical Case taking | | | |
| 18 | P-ID | Practical identification | | | |
| 19 | P-PS | Practical Problem solving | | | |
| 20 | QZ | Quiz | | | |
| 21 | PUZ | Puzzles | | | |
| 22 | CL-PR | Class Presentation, | | | |
| 23 | DEB | Debate | | | |
| 24 | WP | Word puzzle | | | |
| 25 | O-QZ | Online quiz | | | |

| 26 | O-GAME | Online game-based assessment | |
|----|--------------|------------------------------|--|
| 27 | M-MOD | Making of Model | |
| 28 | M-CHT | Making of Charts | |
| 29 | M-POS | Making of Posters | |
| 30 | C-INT | Conducting interview | |
| 31 | INT | Interactions | |
| 32 | CR-RED | Critical reading papers | |
| 33 | CR-W | Creativity Writing | |
| 34 | C-VC | Clinical video cases, | |
| 35 | SP | Simulated patients | |
| 36 | PM | Patient management problems | |
| 37 | СНК | Checklists | |
| 38 | OSCE | OSCE | |
| 39 | OSPE | OSPE, | |
| 40 | Mini-CEX | Mini-CEX | |
| 41 | DOPS | DOPS | |
| 42 | CWS | CWS | |
| 43 | RS | Rating scales | |
| 44 | RK | Record keeping | |
| 45 | СОМ | Compilations | |
| 46 | Portfolios | Portfolios | |
| 47 | Log book | Log book | |
| 48 | TR | Trainers report | |
| 49 | SA | Self-assessment | |
| 50 | РА | Peer assessment | |
| 51 | 360D | 360-degree evaluation | |
| 52 | TT-Theory | Theory | |
| 53 | PP-Practical | Practical | |
| 54 | VV-Viva | Viva | |

Domain

| S.No | Short form | Discription | | |
|------|------------|-----------------------------|--|--|
| 1 | СК | Cognitive/Knowledge | | |
| 2 | CC | Cognitive/Comprehension | | |
| 3 | САР | Cognitive/Application | | |
| 4 | CAN | Cognitive/Analysis | | |
| 5 | CS | Cognitive/Synthesis | | |
| 6 | СЕ | Cognitive/Evaluation | | |
| 7 | PSY-SET | Psychomotor/Set | | |
| 8 | PSY-GUD | Psychomotor/Guided response | | |
| 9 | PSY-MEC | Psychomotor/Mechanism | | |
| 10 | PSY-ADT | Psychomotor Adaptation | | |
| 11 | PSY-ORG | Psychomotor/Origination | | |
| 12 | AFT-REC | Affective/ Receiving | | |
| 13 | AFT-RES | Affective/Responding | | |
| 14 | AFT-VAL | Affective/Valuing | | |
| 15 | AFT-SET | Affective/Organization | | |
| 16 | AFT-CHR | Affective/ characterization | | |

T L method

| S.No | Short form | Discription | | | |
|------|------------|---------------------------------------|--|--|--|
| 1 | L | Lecture | | | |
| 2 | L&PPT | Lecture with Power point presentation | | | |
| 3 | L&GD | Lecture & Group Discussion | | | |
| 4 | L_VC | Lecture with Video clips | | | |
| 5 | DIS | Discussions | | | |
| 6 | BS | Brainstorming | | | |
| 7 | IBL | Inquiry-Based Learning | | | |
| 8 | PBL | PBL | | | |
| 9 | CBL | CBL | | | |
| 10 | PrBL | Project-Based Learning | | | |
| 11 | TBL | TBL | | | |
| 12 | TPW | Team project work | | | |
| 13 | FC | Flipped classroom | | | |
| 14 | BL | Blended Learning | | | |
| 15 | EDU | Edutainment | | | |
| 16 | ML | Mobile learning | | | |
| 17 | ECE | ECE | | | |
| 18 | SIM | Simulation | | | |
| 19 | RP | Role plays | | | |
| 20 | SDL | Self-directed learning | | | |
| 21 | PSM | Problem solving method | | | |
| 22 | KL | Kinesthetic Learning | | | |
| 23 | W | Workshops | | | |
| 24 | GBL | Game-Based Learning | | | |
| 25 | D-M | Demo on Model | | | |

| 26 | LS | Library Session | | | |
|----|-------|---------------------------|--|--|--|
| 27 | PL | Peer learning | | | |
| 28 | RLE | Real life experience | | | |
| 29 | REC | Recitation | | | |
| 30 | SY | Symposium | | | |
| 31 | TUT | Tutorial | | | |
| 32 | PER | Presentations | | | |
| 33 | РТ | Practical | | | |
| 34 | XRay | X ray identification | | | |
| 35 | CD | Case diagnosis | | | |
| 36 | LRI | Lab report interpretation | | | |
| 37 | DA | Drug analysis | | | |
| 38 | D | Demonstration | | | |
| 39 | D_BED | Demonstration bedside | | | |
| 40 | D_L | Demonstration Lab | | | |
| 41 | DG | Demonstration Garden | | | |
| 42 | FV | Field visit | | | |
| 43 | PRA | Practical | | | |
| | | | | | |
| | | - - | | | |

Course curriculum for Second Professional BAMS

(PRESCRIBED BY NCISM)



Samhita Adhyayan-2 (SUBJECT CODE : AyUG-SA2)

(Applicable from 2021-22 batch, from the academic year 2023-24 onwards for 5 years or until further notification by NCISM, whichever is earlier)





BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110058

NCISM

II Professional Ayurvedacharya (BAMS)

Subject Code : AyUG-SA2

Summary

Г

| Total number of Teaching hours: 240 | | | | | |
|-------------------------------------|---------|-----|----------|--|--|
| Lecture hours(LH)-Theor | У | | | | |
| Paper I | 100 | 100 | 100(LH) | | |
| Non Lecture hours(NLH) | -Theory | | | | |
| Paper I (40) | 140 | 140 | 140(NLH) | | |
| Non Lecture hours(NLH)-Practical ## | | | | | |
| Paper I (100) | | | | | |

| Examination (Papers & Mark Distribution) | | | | | |
|---|-----|-----------|------|----------------|----|
| Item Theory Component Marks Practical Component Marks | | | | | |
| | | Practical | Viva | Elective | IA |
| Paper I | 100 | - | 75 | (Set SB) 10 | 15 |
| Sub-Total | 100 | 100 | | | |
| Total marks | | 200 | | | |

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Important Note:-The User Manual II BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual II before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic.

In case of difficulty and questions regarding curriculum write to cur.imp@ncismindia.org

Details in Practical list, Table 4 and Table 4a

PREFACE

In continuation with the curriclum reforms started previous year, Samhita Adhyayan-2 focuses on learning Samhita with due significance to the methodology of textual structuring and interpretation. Charakasamhita is taken as a model text here considering its vast contributions to Ayurveda. Students who learn Ayurveda will benefit by Samhita Adhyayan to comprehend sense of importance of its traditional classical literature. SA2 tries to justify the methodology of structuring samhita and appraise the importance of tools of decoding samhita such as tantrayukti and vyakhyana. Relating and interpreting the various references, explaining and interpreting important sidhantas, applying sidhantas in clinical practice, making use of specific diagnostic and assessment guidelines mentioned in Carakasamhita, demonstrating principles of management of various clinical conditions etc. are some of the thrust areas addressed. Importance of by hearting important slokas also is highlighted. The content of SA2 belongs to 54 chapters of Carakasamhita viz. Sutrasthana (18 chapters 13-30, initial 12 chapters already dealt in SA1), Nidanasthana (8 chapters), Vimanasthana (8 chapters), Shareerasthana (8 chapters) and Indrivasthana (12 chapters). Each chapter is taken as a unit in the syllabus. A chapter starts with short introduction (adhyaya parichaya) through justifying the position of the chapter and introducing key terms in the chapter. This is followed by explaining important sidhantas (sidhanta-vivarana) in the chapter. At the end summary of the chapter (adhyayasangraha) is done with the help of summarizing slokas at the end of the chapter. This will help students to map the whole content of the chapter, even though some of them are not dealt in detail during sidhanta-vivarana. Sloka sangraha (compilation of sloka) compiles the most important slokas in the chapter. Application of **Tantravukti** and **Vvakhvana** in proper understanding of Samhita also is envisaged as a separate section while planning practicals. Efforts have been taken to design some interesting and innovative activities and practical as a part of developing this syllabus. They have been added to resepective tables here. It does not restrict our teachers from designing and implementing more attractive and effective activities or customizing those ones which are enlisted, as and when needed, without loosing spirit of the new outlook.

INDEX

| Course Code and Name of Course | 5 |
|--|-------|
| Fable 1- Course learning outcomes and matched PO | 5 |
| Table 2 : Contents of Course | 6 |
| Paper 1 | 6 |
| Table 3: Learning objectives (Theory) of Course | 18 |
| Paper 1 | 18 |
| List of Practicals | 72 |
| Table 4: Learning objectives (Practical) | 74 |
| Practical 1 | 74 |
| Fable 4a: List of Practical | 81 |
| Activity | 91 |
| Table 5- Teaching learning method | 95 |
| Table 6: Assessment Summary: Assessment is subdivided in A to H points | |
| 6 A-Number of Papers and Marks Distribution | 96 |
| 6 B - Scheme of Assessment (formative and Summative) | 96 |
| 6 C - Calculation Method for Internal assessment Marks | 98 |
| 6 D - Evaluation Methods for Periodical Assessment | 98 |
| 6 E Question Paper Pattern | 99 |
| 6 F Distribution of theory examination | 100 |
| Paper 1 | 100 |
| 6 G Blue print of paper I | . 104 |
| 6 H Distribution of Practical Exam | . 108 |
| References Books/ Resources | . 109 |
| Abbreviations | . 111 |

Course Code and Name of Course

| Course code | Name of Course | | |
|-------------|--------------------|--|--|
| AyUG-SA2 | Samhita Adhyayan-2 | | |

Table 1- Course learning outcomes and matched PO

| SR1 CO No | A1 Course learning Outcomes (CO) AyUG-SA2 At the end of the course AyUG-SA2, the students should be able to- | B1 Course learning Outcomes matched with program learning outcomes. |
|-----------------|---|---|
| CO1 | Justify the Methodology of structuring samhitas and appraise the importance of tools of decoding Charakasamhita (Tantrayukti and vyakhyana) | PO1 |
| CO2 | Relate and interpret various references of concepts in Charakasamhita | PO1 |
| CO3 | Explain and interpret biological factors and their measurements in the manifestation of diseases. | PO1,PO3 |
| CO4 | Explain and utilize various siddhantas in different dimensions of clinical practice. | PO1,PO3,PO5 |
| CO5 | Demonstrate the knowledge of dravya and adravya based therapeutics. | PO1,PO3,PO5 |
| CO6 | Apply diagnostic guidelines regarding diseases including arishta lakshana based on the principles mentioned in Charakasamhita | PO1,PO3,PO7 |
| CO7 | Explore the determinants of health in the background of Charakasamhita. | PO1 |
| CO8 | Develop ethical professional and moral codes and conducts as a physician. | PO6,PO8,PO9 |

| Papo Sr. No | A2 List of Topics | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
|-------------------|--|------------|-------------|------------------------|--------------------------------|
| 1 | Cha.Su.13- Sneha Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Sneha yoni 2. Chaturvidha sneha and its qualities 3. Sneha kaala and its anupana 4. Pravicharana sneha 5. Acchapeya 6. Sneha matra and its indications 7. Introduction to sneha yogya and ayogya purusha 8. Introduction to ayoga, samyak yoga and atiyoga of snehapana 9. Koshta pariksha 10. Introduction to snehapana vidhi 11. Introduction to sadyasneha 12. Sneha vyapat kaarana, lakshana and chikitsa III. Adhyaya sangraha | 1 | 37 | 3 | 1 |
| 2 | Cha.Su.14- Sveda Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Benefits of swedana 2. Swedana bheda 3. Swedana vidhi 4. Samyak swinna lakshana 5. Atiswinna lakshana and chikitsa 6. Swedana yogya and ayogya 7. Trayodasha agni sweda vivarana 8. Dasha vidha niragni sweda III. Adhyaya sangraha | 1 | | 2 | 1 |
| 3 | Cha.Su.15- Upakalpaneeya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Samshodhana upayogi dravya sangraha 2. Aturalaya nirmana 3. Introduction to vamana vidhi 4. Samsarjana krama 5. Introduction to virechana vidhi 6. Benefits of samshodhana III. Adhyaya sangraha | 1 | | 2 | 3 |
| 4 | Cha.Su.16- Chikitsaprabhritiya Adhyaya I. Adhyaya parichaya | 1 | 1 | 2 | 2 |

| | II. Siddhanta vivarana 1. Samyak virikta – avirikta - ativirikta lakshana 2. Bahudosha lakshana 3. Benefits of samshodhan 4. Importance of samshodhan 5. Samshodhana atiyoga and ayoga chikitsa 6. Swabhavoparama vada 7. Chikitsa paribhasha 8. Qualities of chikitsa-prabhrita vaidya III. Adhyaya sangraha | | | |
|---|---|---|---|---|
| 5 | Cha.Su.17- Kiyantashiraseeya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Importance of shiras 2. Introduction to shiroroga, hridroga, vidradhi, madhumeha and madhumeha pidaka 3. 62 types of permutation and combination of doshas 4. Trayodasa sannipata (13 types of combination of doshas) 5. 12 types of vishama sannipata (Doshavikalpa) 6. Types of kshaya 7. Ojus 8. Doshagati III. Adhyaya sangrah | 1 | 3 | 0 |
| 6 | Cha.Su.18-Trisotheeya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Types of shotha 2. Trividha bodhya (three types of assessment of diseases) 3. Ekadeshaja shotha 4. Aparisankhyeyatwa of roga 5. Anukta roga (unnamed diseases) and its management 6. Karmas of prakrita doshas III. Adhyaya sangraha | 1 | 1 | 3 |
| 7 | Cha.Su.19-Ashtodareeya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Sankhya samprapti of samanyaja vyadhi 2. Tridosha pradhanyata 3. Nija-agantu sambandha III. Adhyaya sangraha | 1 | 1 | 3 |
| 8 | Cha.Su.20- Maharoga adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Vyadhibheda (classification of disease) 2. Agantu-mukha (causes of agantu diseases) 3. Trividha-prerana (three etiological factors) 4. Samanyaja-nanatmaja-vikara – classification | 1 | 2 | 2 |

| | 5. Vataja-nanatmaja vikaras, atmarupa and prakupitakarma 6. Pittaja- nanatmaja vikaras, atmarupa and prakupitakarma 7. Kaphaja- nanatmaja vikaras, atmarupa and prakupitakarma III. Adhyaya sangraha | | | |
|----|---|---|---|---|
| 9 | Cha.Su.21- Ashtauninditeeya adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Ashta nindita purusha 2. Ati sthula and ati karshya 3. Ashta dosha of sthaulya 4. Dosha-lakshana-hetu of karsya and sthaulya 5. Prasasta purusha lakshana 6. Chikitsa sutra of sthaulya and karsya 7. Nidra paribhasha 8. Arha and varjya for divaswapna 9. Effects of ratri jagarana and divaswapna 10. Types of Nidra III. Adhyaya sangraha | 1 | 3 | 3 |
| 10 | Cha.Su.22- Langhanabrimhaneeya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Shadupakrama 2. Swaroopa and lakshana of shadupakrama 3. Dasavidhalanghana 4. Dasavidhalanghana-prayoga-niyama 5. Properties of dravyas used in shadupakrama 6. Samyaklakshana of langhana, brimhana and sthambhana 7. Atiyoga and ayoga of shadupakrama III. Adhyaya sangraha | 1 | 3 | 2 |
| 11 | Cha.Su.23- Santarpaneeya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Santarpana dravya 2. Santarpanajanya vyadhi 3. Chikitsasutra of santarpanajanya vyadhi 4. Apatarpanajanya vyadhi 5. Chikitsasutra of apatarpanajanya vyadhi III. Adhyaya sangraha | 1 | 2 | 0 |
| 12 | Cha.Su.24- Vidhishoniteeya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Shonita-pradhanyata 2. Shonita-dushti-karana 3. Shonitajanya roga 4. Shonita-dushti-chikitsa 5. Raktadushtilakshana in relation to dosha | 1 | 3 | 2 |

| | 6. Vishuddharaktalakshana 7. Vishuddharakta-purusha-lakshana 8. Pathya in raktamoksha 9. Introduction to mada-murchaya-sanyasa III. Adhyaya sangraha | | | |
|----|---|---|---|----|
| 13 | Cha.Su.25- Yajjapurusheeya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Factors responsible for generation of purusha and diseases 2. Concept of hita ahara and its importance 3. Different factors related with ahara like aharayoni, prabhava, udarka, upayoga, rasa, gurvadi guna etc 4. Agryasangraha- (Aushadha- Anna-Vihara) 5. Terminology of pathya and apathya 6. Enumeration of aasavayoni III. Adhyaya sangraha | 1 | 2 | 4 |
| 14 | Cha.Su.26- Atreyabhadrakaapyeeya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Sambhasha parishat on number of rasa 2. Gunas of parthivadi dravyas 3. Dravya prabhava and guna prabhava 4. Dravya karmukata siddhanta (pharmacodyanamics) with respect to adhikarana, kala, karma, veerya, upaya and phala 5. Paradi guna 6. Rasadi-panchaka – Additional knowledge 7. Examples of samanapratyarabdha and vichitra pratyaarabdha dravyas 8. Properties of vipaka 9. Perception of rasa, vipaka and veerya 10. Examples of prabhava 11. Types of viruddha and management of complications 12. Principles of treatment of diseases caused by viruddha ahara III. Adhyaya sangraha | 1 | 3 | 3 |
| 15 | Cha.Su.27- Annapaana vidhi Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Benefits of hita ahara 2. Examples of hita ahara and ahita ahaara 3. Ahara vargas 4. Importance of anna III. Adhyaya sangraha | 1 | 4 | 2 |
| 16 | Cha.Su.28- Vividhashitapeeteeya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana | 1 | 4 | 14 |

| | Caturvidha-ahara Difference between hita aahara and ahita aahara Susceptibility to diseases (with respect to pathya and apathya) Vyadhi-saha shareera Dhatupradoshaj, upadhatupradoshaj, indriyapradoshaja, malapradoshaja vikaras and treatment principles Shakhagati and koshtagati of doshas Causes of health and diseases Importance of prajnaaparadha Adhyaya sangraha | | | | |
|----|--|---|----|---|---|
| 17 | Cha.Su.29- Dashapraanaayataneeya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Enumeration of dasha pranaayatana 2. Terminology of praanaabhisara vaidya and rogaabhisara vaidya, chadmachara, yogya bhishak and karmakovida III. Adhyaya sangraha | 2 | | 2 | 2 |
| 18 | Cha.Su.30- Arthedashamahamooleeya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Importance of hridaya 2. Best factors for life (shreshtatama bhava) 3. Four types of Ayu 4. Shashwatatwa of Ayurveda 5. Quality of Learner of Ayurveda 6. Ashtaprashna 7. Dashaprakaran 8. Synonyms of tantra III. Adhyaya sangraha | 2 | | 2 | 0 |
| 19 | Cha.Ni.01-Jwara nidana Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Description of nidanapanchaka 2. Nidanaparyaya 3. Vyadhiparyaya 4. Ashtavidha jwaranidana , samprapti and lakshana. 5. Jwarapurvarupa 6. Jwara mahaprabhava vivarana 7. Jwara samkshipta chikitsa sutra. 8. Importance of ghrutapaan in jeerna jwara. III. Adhyaya sangraha | 2 | 19 | 2 | 2 |
| 20 | Cha.Ni.02-Raktapitta nidana Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Raktapitta paryaya and nirukti. 2. Raktapitta nidan, purvarupa, upadrava | 2 | | 2 | 2 |

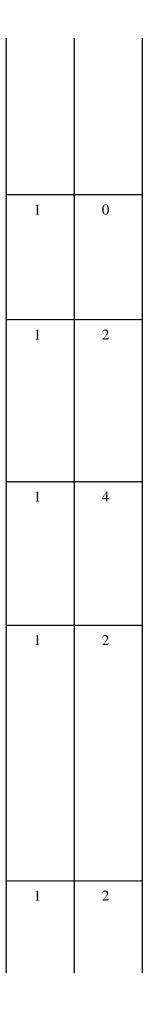
| | Raktapitta marga, dosha anubhandha and sadhyaasdhyata. Raktapitta chikitsa sutra III. Adhyaya sangraha | | | |
|----|--|---|---|---|
| 21 | Cha.Ni.03-Gulma nidana Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Sankhya samprapti 2. Gulma sthanas 3. Nidana, lakshana and samprapti of vata-pitta-kahpaja gulma 4. Shonita gulma 5. Gulma purvarupa 6. Sadhya asadhya 7. Chikitsa sutra III. Adhyaya sangraha | 2 | 2 | 2 |
| 22 | Cha.Ni.04-Prameha nidana adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Sankhyasamprapti (vimsatiprameha) 2. Sampraptighataka (doshavisesha and dushyavisesha) 3. Nidanapanchaka of doshaja prameha (vata, pitta and kapha) 4. Sadhyasadhyata 5. Poorvarupa 6. Upadrava 7. Chikitsasutra III. Adhyaya sangraha | 2 | 2 | 3 |
| 23 | Cha.Ni.05-Kushta nidana Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Saptadravya of kushta 2. Aneka rupa of kushta 3. Samanya nidana and samanya purvarupa 4. Sadhyasadhyata 5. Sapta kushta lakshana 6. Upadrava III. Adhyaya sangraha | 2 | 2 | 4 |
| 24 | Cha.Ni.06-Shosha nidana Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Visesha nidana, samprapti and lakshana of shosha 2. Purvarupa 3. Ekadasa rupa 4. Sadhyasadhyata III. Adhyaya sangraha | 2 | 2 | 2 |

| <u> </u> | | | | | ı |
|----------|--|---|----|---|---|
| 25 | Cha.Ni.07-Unmada nidana Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Sankhya samprapti 2. Unmadaabhimukha karana (predisposing factors of unmada) 3. Unmada nirvacana (ashta vibhrama) 4. Purvarupa 5. Vata-pitta-kapha-sannipataj unmada lakshna 6. Role of prajnaparadha 7. Chikitsasutra of unmada 8. Agantuja unmada- nidana, purvarupa, lakshana, chikitsa sutra III. Adhyaya sangraha | 2 | | 2 | 4 |
| 26 | Cha.Ni.08-Apasmara nidana adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Definition of apasmara 2. Apasmaraabhimukakarana (predisposing factors of unmada) 3. Vishesha lakshana of apasmara 4. Cikitsasutra 5. Nidanarthakara roga 6. Vyadhisankara 7. Suddha-asuddha cikitsa 8. Sadhyasadhyata – nirvacana 9. Tiryaggatadosha - cikitsasutra III. Adhyaya sangraha | 2 | | 2 | 4 |
| 27 | Cha.Vi.01- Rasa vimana Adhyayam I. Adhyaya parichaya II. Siddhanta vivarana 1. Importance and objective of vimanasthana 2. Prakrutisamasamaveta and vikrutivishamasamaveta siddhanta 3. Chaturvidha Prabhava (rasa-dravya-dosh-vikara prabhava) 4. Examples of dravyaprabhava- taila, ghruta and madhu. 5. Dravyas which are avoided for regular consumption 6. Satmyaparibhasha and types 7. Aharavidhi visheshayatana 8. Ahara vidhi vidhana and bhojyasaadgunyam III. Adhyaya sangraha | 3 | 24 | 2 | 3 |
| 28 | Cha.Vi.02-Trividha kuksheeya Adhyayam I. Adhyaya parichaya II. Siddhanta vivarana 1. Three divisions of amashaya for deciding aharamatraa 2. Matraavat ahaara lakshan | 3 | | 2 | 0 |

| | Amatravatva of ahara Effects of heenamaatra and atimatra of ahara Mental factors which affect the digestion of food Two types of amadosha Hetu-linga and aushasdha of amadosha Demarcation of amasaya III. Adhyaya sangraha | | | |
|----|--|---|---|---|
| 29 | Cha.Vi.03-Janapadodhwansaneeya Vimanam Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Importance of timely collection of medicines. 2. Janapadodhwamsakara samanya bhavas (four causes of epidemic diseases) 3. Lakshanas of vikrut vayu, jala, desha and kala. 4. Chikitsa siddhanta of janapadodhwamsakara vikaras 5. Role of adharma in janapadodwamsa 6. Niyata and aniyata ayu 7. Daiva and purushakara 8. Examples of hetuviparita chikitsa in jwara 9. Apatarpana and its types 10. Description of desha III. Adhyaya sangraha | 3 | 2 | 2 |
| 30 | Cha.Vi.04-Trividha roga vishesha vijnyaneeya adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Three methods of diagnosing diseases 2. Characteristics of aptopadesh, pratyaksha and anumana 3. Application of aptopadesha, pratyaksha and anumana in clinical examination III. Adhyaya sangraha | 3 | 2 | 3 |
| 31 | Cha.Vi. 05- Sroto vimana Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Srotas paribhasha 2. Types of srotas 3. Types of srotodushti 4. Hetu, lakshan and chikitsa of strotodushti III. Adhyaya sangraha | 3 | 2 | 2 |
| 32 | Cha.Vi. 06-Roganika vimana adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Dvividha vyadhi bhedha based on prabhava, bala, adhishthana, nimitta, ashaya bheda. 2. Vyadhi aparisamkheyatva 3. Relation between shareerika and manasika dosha. 4. Anubhandhy-anubandha roga 5. Agni bheda, prakruti bheda. | 3 | 2 | 2 |

| 36 | Cha.Sha.02-Atulyagothreeyam Adhyaaya I. Adhyaya parichaya II. Siddhanta vivarana | 2 | | 1 | 0 |
|----|--|---|----|---|----|
| 35 | Cha.Sha.01-Katithapurusheeya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Sareera and sareerasthana 2. Purusha and its types 3. Manonirupanam 4. Atmalinga 5. Ashtaprakriti and shodasavikara 6. Srishtyutpatti and pralaya 7. Trividha dukhahetu 8. Prajnaparadha 9. Daiva 10. Naishtikichikitsa 11. Vedana and vedana adhishtana 12. Vedananasahetu 13. Moksha 14. Smriti hetus III. Adhyaya sangraha | 2 | 13 | 2 | 3 |
| 34 | Cha.Vi. 08-Rogabhishagjiteeyam Adhyaayam. I. Adhyaya parichaya II. Siddhanta vivarana 1. Shastra pareeksha 2. Means of learning shastra 3. Adhyayana and adhyapana vidhi 4. Sambhasaha vidhi- Types 5. Three types of parishat 6. Vadamarga padani 7. Methodology of Vada and its benefits 8. Dashavidha pareeksya bhava 9. Dashavidha atura pareeksha III. Adhyaya sangraha | 3 | | 5 | 11 |
| 33 | Cha.Vi. 07- Vyadhita rupeeya vimana Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Dvividha vydhita purusha based on severity of disease and clinical presentation 2. Krimi bheda 3. Trividha chikitsa III. Adhyaya sangraha | 3 | | 2 | 2 |
| | 6. Vatala prakrutigata roga, their hetu and chikitsa, pitta prakrutigata roga, their hetu and chikitsa-kapha-prakrutigata roga, their hetu and chikitsa 7. Raja vaidya gunas III. Adhyaya sangraha | | | | |

| | Prerequisites of conception Shodashadhatu in shareera Sexual abnormalities Sadyogriheeta garbhinee lakshana Ativahikapurusha Daiva & paurusha Roganutpatti III. Adhyaya sangraha | |
|----|---|---|
| 37 | Cha.Sha.03-Khuddika garbhavakranti Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Matrujadi bhavas in garbha 2. Beeja & beejabhaga III. Adhyaya sangraha | 2 |
| 38 | Cha.Sha.04-Mahatee garbhavakranti Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Garbha & garbhaposhana 2. Garbhopaghatakara bhava 3. Congenital abnormalities 4. Trividhasatva bheda (manasaprakriti) III. Adhyaya sangraha | 2 |
| 39 | Cha.Sha.05-Purushavichaya Shareera Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Lokapurushasamya 2. Hetwadi panchaka 3. Satya buddhi III. Adhyaya sangraha | 2 |
| 40 | Cha.Sha.06-Sareeravichaya adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Definition of sareera 2. Samanyavisesha sidhanta – applied aspect 3. Shareera dhatuguna 4. Shareeravriddhikarabhava 5. Balavriddhikarabhava 6. Aharaparinamakarabhava 7. Sareeraguna bheda 8. Kala-akala mrityu 9. Param ayu karanam III. Adhyaya sangraha | 2 |
| 41 | Cha.Sha.07- Sareerasankhya sareera Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Paramanu bheda of shareera | 2 |



| | III. Adhyaya sangraha | | | | |
|----|--|---|---|---|----|
| 42 | Cha.Sha.08-Jathisutreeya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Sutikagara 2. Garbhopaghatakara bhava III. Adhyaya sangraha | 2 | | 1 | 12 |
| 43 | Cha.In.1-Varnasvariyam Indriya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Factors for assessing rishta 2. Six types of prakruti bhedha 3. Rishtaadhikara kruta vikruti bhedha 4. Prakruta and vaikarika varna 5. Varnavishayak arishta 6. Prakruta and vaikarika swara 7. Swara vishayak arishta III. Adhyaya sangraha | 3 | 7 | 1 | 1 |
| 44 | Cha.In.2-Pushpitakam Indriya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Gandha vishayaka samgrah 2. Rasa vishayaka arishta III. Adhyaya sangraha | 3 | | 1 | 0 |
| 45 | Cha.In.3-Parimarshaneeyam Indriyam Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Sparshagamya bhava (palpable signs) 2. Sparshavishayak arishta lakshana III. Adhyaya sangraha | 3 | | 1 | 0 |
| 46 | Cha.In.4-Indriyaneekam Indriya adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Indriya vishayaka arishta samanya niyama (general rule regarding involvement of indriya) III. Adhyaya sangraha | 3 | | 1 | 0 |
| 47 | Cha.In.5-Purvarupeeyam Indriyam Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Jvara rupa vishayaka poorvaroopiya rishta (rishta based on purvarupa of jvara) 2. Swapna bheda (types of swapna) III. Adhyaya sangraha | 3 | | 1 | 2 |
| 48 | Cha.In.6-Katamanisharireeyam Indriyam Adhyaya I. Adhyaya parichaya | 3 | | 1 | 0 |

| Tot | al Marks | | 100 | 100 hr | 140 hr |
|-----|---|---|-----|--------|--------|
| 54 | Cha.In.12-Gomayachurniyam Indriya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Mumurshu lakshana, 2. Prashasta doota lakshana and mangalika dravya. 3. Arogya janaka bhava III. Adhyaya sangraha | 3 | | 1 | 17 |
| 53 | Cha.In.11-Anujyotiyam Indriya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Definition of Arishta III. Shloka sangraha | 3 | | 1 | 0 |
| 52 | Cha.In.10-Sadyomaraneeyam Indriya Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Sadyo maraneeya arishtas III. Adhyaya sangraha | 3 | | 1 | 0 |
| 51 | Cha.In.9-Yasya shyavanimittiya Indriya Adhyaya I. Adhyaya parichaya II. Sidhanta vivarana 1. Ashtamaharogas III. Adhyaya sangraha | 3 | | 1 | 0 |
| 50 | Cha.In.8-Avakshiraseeyam Indriyam Adhyaya I. Adhyaya parichaya II. Adhyaya sangraha | 3 | | 1 | 0 |
| 49 | Cha.In.7-Pannarupiyam Indriyam Adhyaya I. Adhyaya parichaya II. Siddhanta vivarana 1. Pratichaya vishayaka arishta 2. Chaya vikruti arishtas 3. Five types chaya bheda 4. Seven types prabha bheda III. Adhyaya sangraha | 3 | | 1 | 0 |
| | II. Sidhanta vivarana 1. Rishta related to pureesha, mutra and swayathu III. Adhyaya sangraha | | | | |

| Paper 1 | | | | | | | | | |
|-------------------------|---|----------------------|--|--|-------------------------|--|---------------------------------------|------------|-----------------------|
| A3 Course outcome | B3 Learning Objective (At the end of the session, the students should be able to) | C3 Doma in/sub | D3 Must to know / desirable to know / Nice to know | E3 Level Does/ Show s how/ Know Know/ Know | F3 T-L meth od | G3 Assessment (Refer abbreviations) | H3 Form ative/ summ ative | I3 Term | J3 Integr ation |
| Topic 1 Cha | Su.13- Sneha Adhyaya (Lecture :3 hours, Non lecture: 1 hour | rs) | | | | | | • | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | Ι | |
| CO2 | Explain basic meaning and importance of key terms in the chapter such as sneha, snehayoni, caturvidhasneha, acchasnehapaana, sadyasneha and pravicharana. | СК | МК | К | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | Ι | |
| CO4,CO5 | Enlist sthavara and jangam snehayoni Ch Su 13/9-11 | СК | МК | К | L&G D,ML | M-POS,TT- Theory | F&S | Ι | |
| CO4,CO5 | Justify why tila taila is the best among taila varga. Ch Su 13/12 | СК | МК | КН | L,L& PPT, DA | T-EMI | F&S | Ι | |
| CO4,CO5 | Explain qualities and mode of action of eranda taila Ch. Su 13/12 | СК | DK | кн | L,L_ VC,D A | T-EMI | F&S | Ι | |
| CO4,CO5 | Enlist four types of sneha and justify sarpi as the best (shreshta). | CC | МК | КН | L,DIS | PRN,TT-Theo | F&S | Ι | |

| | Ch .Su 13/13 | | | | ,DA | ry,VV-Viva | | | |
|-----------------|---|-----|----|----|------------------------------|---------------------------------|-----|---|------|
| CO4,CO5 | Explain snehapaan kaala and anupaan Ch.Su 18-22 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO4,CO5 | Define and enlist 24 types of pravicharana sneha and other types of sneha pravicharana. Ch Su 13/23, 24, 25, 27, 28 | CC | МК | КН | L&G D | CL-PR,TT-Th eory,VV-Viva | F&S | Ι | |
| CO4,CO5 | Explain acchasnehapaana and its importance Ch Su 13/26 | СК | DK | КН | L&G D,RP, PL | TT-Theory,V V-Viva | F&S | Ι | |
| CO4,CO5 | Enlist types of snehamatra Ch.Su 13/29-30 | CC | МК | КН | L&G D,RE C | QZ ,TT-Theor y,VV-Viva | F&S | Ι | |
| CO4,CO5 | Mention rule for duration of snehapaana Ch. Su 13/51 | CC | МК | KH | L&G D,BS | PUZ,TT-Theo ry,VV-Viva | F&S | Ι | |
| CO4,CO5 | Mention yogya and ayogya for snehana Ca Su 13/52-56. | CC | DK | КН | L,L& PPT,L &GD, CBL | TT-Theory,V V-Viva | F&S | I | V-PC |
| CO4,CO5 | Summarize samyak snigdha lakshana, asnigdha lakshana and atisnigdha lakshana. Ch Su 13/57-59 | CC | DK | КН | L&G D,D | P-ID,TT-Theo ry,VV-Viva | F&S | Ι | |
| CO2,CO4,CO 5 | Summarise snehavyapat karana, lakshana and chikitsa Ch Su 75-79 | CAP | NK | KH | L&G D,PL | TT-Theory,V V-Viva | F&S | Ι | |
| CO4,CO5 | Figure out importance of pathya and apathya in snehapaan.Ch Su 13/60-61-64 | СК | DK | КН | L&G D,SD L | M-CHT,TT-T heory,VV- Viva | F&S | Ι | |
| CO4,CO5 | Explain pathyaapathya to be followed during and after | CC | МК | КН | L&G | CHK,TT-Theo | F&S | Ι | |

| | snehapaana. Ch Su 62-64 | | | | D,ED U | ry,VV-Viva | | | |
|-----------------|--|-------------|----|----|----------------------|-----------------------------------|-----|---|--|
| CO4,CO5 | Explain criteria's for assessing koshta. Ch Su 13/ 65-69. | CC | МК | КН | L&G D,CB L | TT-Theory,V V-Viva | F&S | Ι | |
| CO4,CO5,CO 6 | Illustrate types of koshtha in patients undergoing snehapana | PSY- SET | NK | SH | CBL, CD,D _BED | P-ID,VV-Viva | F&S | Ι | |
| CO4,CO5 | Mention some examples for recipes of vicharanasneha.Ch Su 13/82-94 | СК | DK | К | L,L& PPT | TT-Theory,V V-Viva | F&S | Ι | |
| CO4,CO5 | Interpret the role of agni in sadyasneha Ca Su 13/96-97 | СК | DK | К | L,L& GD,I BL | TT-Theory,V V-Viva | F&S | Ι | |
| CO1,CO2 | Recite sutra no. Ch Su 13/13-17, 22, 57-59. | СК | МК | К | SDL, REC | P-REC | F&S | Ι | |
| CO1,CO2 | Summarize the chapter as per Ch Su 13/100. | СК | NK | K | SDL | P-VIVA | F&S | Ι | |
| CO4,CO5 | Relate dravya classification mentioned in Ch Su 1 (trividha) with snehayoni | CAP | МК | КН | DIS | PRN | F | Ι | |
| Topic 2 Cha. | Su.14- Sveda Adhyaya (Lecture :2 hours, Non lecture: 1 hour | s) | | | | | | | |
| CO1,CO2 | Justify the position of the chapter in the samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | Ι | |
| CO2 | Explain basic meaning and importance of key terms in the chapter such as agnisweda, niragnisweda, snigdhapurva, ruskhapurva and trayodasasweda | СК | МК | К | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | Ι | |
| CO4,CO5 | Explain the benefits of swedana. Ch Su 14/ 3-5 | CC | МК | КН | L&G | TT-Theory,V | F&S | Ι | |

| | | | | | D,RL E | V-Viva | | | |
|-------------|---|----------|-------|----|---------------------------|---------------------------------|-----|---|---|
| CO4,CO5 | Explain samyak swedana and ati swedana lakshana Ch Su 14/13-15 | CC | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO4,CO5 | Summarize the indications and contraindications for swedana Ch Su 14/ 16-24. | CC | DK | КН | L&G D,CB L | TT-Theory,V V-Viva | F&S | I | |
| CO4,CO5 | Differentiate pinda sweda, nadi sweda, avagah sweda and upanaha sweda with respect to the drugs used and procedure. Ch Su 14/25-37. | CC | DK | КН | L&G D,L_ VC,C BL | TT-Theory,V V-Viva | F&S | I | |
| CO4,CO5 | Enlist 13 types of agni sweda. Ch Su 14/39-63 | CC | МК | КН | L&PP T,L_ VC | QZ ,TT-Theor y,VV-Viva | F&S | Ι | |
| CO4,CO5 | Enlist 10 types of niragnisweda Ch. Su 14/64. | CC | МК | КН | L,L& GD | O-QZ,TT-The ory,VV-Viva | F&S | Ι | |
| CO4,CO5 | Enlist three classifications of dvividha sweda. Ch Su 14/66 | СК | МК | КН | L&G D | M-CHT,TT-T heory,VV- Viva | F&S | I | |
| CO1,CO2 | Recite sutras Ch Su 14/4,5,39,40,64. | СК | МК | К | SDL, REC | P-REC | F&S | Ι | |
| CO1,CO2 | Summarize the chapter as per sutra Ch Su 14/68-71 | СК | NK | K | SDL | P-VIVA | F&S | Ι | |
| Topic 3 Cha | Su.15- Upakalpaneeya Adhyaya (Lecture :2 hours, Non lectu | re: 3 hc | ours) | | | | | | 4 |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | СК | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | I | |

| CO1,CO2 | Explain basic meaning and importance of key terms in the chapter such as sambharan, aturaalaya, samsarjan krama. | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | Ι | |
|---------|--|-------------|----|----|----------------------|-----------------------------------|-----|---|--|
| CO4,CO5 | Summarize the guidelines for Vaidyas before commencing chikitsa Ch Su 15/3-5. | СК | DK | КН | L&G D | M-CHT,TT-T heory,VV- Viva | F&S | I | |
| CO4,CO5 | Enlist samshodhana upayogi dravya sangraha Ch Su 15/6 | СК | МК | KH | L&G D | QZ ,TT-Theor y,VV-Viva | F&S | Ι | |
| CO4,CO5 | Figure out the procedure of vamana karma. Ch Su 15/9-15 | CC | DK | KH | L&G D,RP | CHK,TT-Theo ry,VV-Viva | F&S | Ι | |
| CO4,CO5 | Explain samsarjana krama Ch Su 15/16 | CC | МК | KH | L,L& GD | CL-PR,TT-Th eory,VV-Viva | F&S | Ι | |
| CO4,CO5 | Identify merits of samsarjanakrama in patients | PSY- SET | NK | SH | BS,IB L,D_ BED | P-CASE,SP | F&S | Ι | |
| CO4,CO5 | Outline procedure for virechana karma Ch Su 15/17-18 | CC | DK | KH | L&G D,RP | CHK,TT-Theo ry,VV-Viva | F&S | Ι | |
| CO4,CO5 | Explain benefits of samshodhana. Ch Su 15/22. | CC | МК | KH | L,L& GD | TT-Theory,V V-Viva | F&S | Ι | |
| CO5,CO7 | Relate the structure of aturalaya (hospital) with the present scenario | САР | DK | KH | DIS,B S,PrB L | DEB,M- MOD,INT | F | I | |
| CO1 | Recite sutra Ch Su 15/22 | СК | МК | К | SDL, REC | P-REC | F&S | Ι | |
| CO1 | Summarize the chapter as per sutra Ch Su 15/2-25 | СК | NK | K | SDL | P-VIVA | F&S | Ι | |

| Topic 4 Cla | a.Su.16- Chikitsaprabhritiya Adhyaya (Lecture :2 hours, Non | | . 2 nours) | | <u>т</u> | | 1 | . | |
|-------------|--|-------------|------------|----|--------------------|-----------------------------------|-----|----------|--|
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance. | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | Ι | |
| CO2 | Explain basic meaning and importance of key terms such as bahudosha lakshana, swabhaavoparamvaada, chikitsaprabhirta. | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | Ι | |
| CO4,CO5 | Summarize samyak virikta –avirikta – ativirikta lakshana. Ch Su 16/6-10 | CC | DK | KH | L&G D,D | RS,TT-Theory ,VV-Viva | F&S | Ι | |
| CO4,CO5 | Explain bahudosha lakshana Ch Su 16/13-16 | CC | МК | KH | L&G D | PUZ,TT-Theo ry,VV-Viva | F&S | Ι | |
| CO3,CO6 | Identify bahudoshalakahana in patients | PSY- SET | DK | SH | CBL, D_BE D | P-VIVA | F&S | Ι | |
| CO4,CO5 | Explain benefits and importance of samshodhana. Ch .Su 16/16-21 | CC | МК | KH | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO4,CO5 | Explain swabhavoparama vada Ch Su 16/ 27-32 | CC | МК | KH | L&G D,BS | DEB,TT-Theo ry,VV-Viva | F&S | Ι | |
| CO2,CO5 | Outline chikitsa of ayoga, atiyoga of samsodhana | CAP | DK | КН | L_VC ,CBL, D | SP,TT-Theory ,VV-Viva | F&S | Ι | |
| CO4,CO5 | Define chikitsa Ch Su 16/34-36 | CC | МК | KH | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO4,CO8 | Appreciate benefits of chikitsa prabhruta bhishak. Ch Su. 16/37-38 | СК | DK | KH | L&G D,D | TT-Theory,V V-Viva | F&S | Ι | |
| CO1 | Recite sutras Ch Su 16/13-21,27,28,34-36 | СК | МК | K | SDL, | P-REC | F&S | Ι | |

| | | | | | REC | | | | |
|-----------------|--|-----------|----------|----|------------------|-----------------------------------|-----|---|--|
| CO4,CO6,CO 7 | Relate swabhavoparama with concept of nidana parivarjana | CAP | МК | КН | DIS | PRN | F | Ι | |
| CO1 | Summarize the chapter as per sutra Ch Su 16/39-41 | СК | NK | K | SDL | P-VIVA | F&S | Ι | |
| Topic 5 Cha. | Su.17- Kiyantashiraseeya Adhyaya (Lecture :3 hours, Non le | ecture: (|) hours) | | 1 | | | | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | К | L&G D | INT,TT-Theor y,VV-Viva | F&S | Ι | |
| CO2 | Explain basic meaning and importance of key terms in the chapter such as doshagati, doshavikalpa, trayodasasannipata | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | I | |
| CO2,CO3 | Explain importance of shiras. Ch Su 17/12 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO3,CO4 | Enlist types of siroroga, hridroga and vidradhi | CC | МК | КН | L&G D | SP,TT-Theory | F&S | Ι | |
| CO3,CO4 | Figure out 62 types of permutation and combination of doshas Ch Su 17/41-44 | СК | DK | К | L&G D,GB L | PUZ,TT-Theo ry,VV-Viva | F&S | I | |
| CO3,CO4 | Figure out 12 types of vishama sannipata Ch Su 17/45-61 | СК | DK | К | L&G D | M-POS | F&S | Ι | |
| CO3,CO4,CO 6 | Complement knowledge about kshayalaskhana of dosha-dhatu- mala to the existing understanding (additional important features mentioned in CS) | СК | DK | КН | DIS,F C | TT-Theory,V V-Viva | F&S | I | |
| CO3,CO4 | Interpret dosha-vikalpa (combinations of doshas) in different conditions. Ch.Su. 17/45-61 | САР | МК | KH | IBL,C BL | P-PS,TT-Theo ry,VV-Viva | F&S | I | |

| CO3,CO7 | Complement knowledge of Ojus to the existing understanding (additional important features mentioned in CS) Ch Su 17/73-77 | CC | MK | К | DIS,F C | TT-Theory | F&S | I | H-RN |
|---------------------|--|--------|----|----|-------------|-----------------------------|-----|---|------|
| CO3,CO4,CO 6 | Outline the samprapti of madhumeha and importance of ojus. Ch Su 17/78-81 | CAP | МК | KH | L&G D | TT-Theory | F&S | Ι | |
| CO2,CO3,CO 4,CO7 | Define the term "gati" and Classify and explain various kinds of gati. Ch.Su 17/112 - 118 Cakrapani | СК | МК | K | L&G D,RP | TT-Theory,V V-Viva | F&S | Ι | |
| CO2,CO4,CO 6 | Interpret asaya apakarsha-gati in relationship with dosha- gati. Ch.Su. 17/45-46 | CC | DK | KH | L&G D | TT-Theory | F&S | Ι | |
| CO3,CO4,CO 7 | Explain kshayahetu Ch.Su. 17/76-77 | CC | MK | KH | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO3,CO4,CO 6 | Illustrate dosha-gati in clinical conditions | CAP | MK | KH | CBL, D | P-RP,P-CASE | F&S | Ι | |
| CO3,CO4 | Explain identification of dosha vriddhi, kshaya, samya Ch.Su. 17/ 62 | CC | MK | KH | L | CL-PR,TT-Th eory,VV-Viva | F&S | Ι | |
| CO1 | Recite sutras Ch Su 17/12, 41-44, 62, 112-118 | СК | МК | K | SDL, REC | P-REC | F&S | Ι | |
| CO1 | Summarize the chapter as per sutra Ch Su 17/120-121 | CK | NK | K | SDL | P-VIVA | F&S | Ι | |
| Topic 6 Cha. | Su.18-Trisotheeya Adhyaya (Lecture :1 hours, Non lecture: 3 | hours) | - | | | | 1 | | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | Ι | |
| CO2 | Explain basic meaning and importance of key terms in the chapter such as trisotha, trividhabodhya sangraha and anukta roga | СС | МК | К | L&PP T | TT-Theory,V V-Viva | F&S | Ι | |
| CO5 | Name and explain trividha-bodhya-sangraha (three-fold method | CC | MK | K | L&G | TT-Theory,V | F&S | Ι | |

| | for understanding disease – vikara prakriti, samuthana and adhisthana) Ca.Su. 18/55, 46-47 | | | | D | V-Viva | | | |
|-------------|--|---------|-----|----|-------------------|-----------------------------------|-----|---|---|
| CO3,CO6 | Illustrate use of trividha-bodhya-sangraha in anuktavyadhi Ch Su 18/44-45 | CAP | DK | КН | L&G D,CB L | TT-Theory,V V-Viva | F&S | Ι | |
| CO3,CO5 | Outline pradesika sotha (local edema) Ch Su 18/19-36 | CC | DK | К | L&G D,L_ VC | P-ID,TT-Theo ry,VV-Viva | F&S | I | |
| CO3,CO6 | Explain aparisankhyeyatwa of diseases (innumerability) Ch Su 18/42 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO3 | Complement tridosha-samanyakarma with additional details mentioned in CS | CC | МК | К | BS,IB L,FC | PRN,TT-Theo ry,VV-Viva | F&S | Ι | |
| CO1 | Recite sutras Ch Su 42,43,44-47 | СК | МК | К | SDL, REC | P-REC | F&S | Ι | |
| CO1 | Summarize the chapter as per sutra Ch Su 18/54-56 | CK | NK | K | SDL | P-VIVA | F&S | Ι | |
| Topic 7 Cha | a.Su.19-Ashtodareeya Adhyaya (Lecture :1 hours, Non lecture | : 3 hou | rs) | · | · | • | | | - |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | К | L&G D | INT,TT-Theor y,VV-Viva | F&S | Ι | |
| CO2 | Explain basic meaning and importance of key terms in the chapter such as nijavyadhi (intrinsic diseases), samanyaja-vyadhi (general diseases) and sankhyasamprapti (enumeration of types of diseases) | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | I | |
| CO2,CO3 | Outline the types of diseases (sankhyasamprapti) mentioned in the chapter | СК | DK | K | L&G D,GB L | QZ ,PUZ,TT- Theory,VV- Viva | F&S | Ι | |

| CO3,CO4 | Illustrate the importance of tridosha in occurrence of diseases Ch Su 19/5 | CC | МК | КН | DIS,S DL | TT-Theory,V V-Viva | F&S | Ι | |
|-----------------|---|--------|----|----|-------------|-----------------------------------|-----|---|--|
| CO3,CO4 | Explain the relationship between Nija and Agatu rogas (intrinsic and extrinsic diseases) Ch Su 19/6,7 | СК | МК | К | L&G D,PL | TT-Theory,V V-Viva | F&S | Ι | |
| CO6,CO8 | Classify diseases in Ayurveda using available online resources (Activity, ref: activity table) | CAP | DK | КН | DIS,B L | SA,TT-Theory ,VV-Viva | F | Ι | |
| CO1,CO2 | Recite sutras Ch Su 19/5, 6 | СК | МК | К | SDL, REC | P-REC | F&S | Ι | |
| CO1,CO2 | Summarize the chapter as per sutra Ch Su 19/8,9 | СК | NK | K | SDL | P-VIVA | F&S | Ι | |
| CO3,CO6,CO 7 | Summarize different classifications of diseases mentioned in deerghanjeeviteeya, tisraishaneeya, ashtodareeya, maharoga and roganeeka | CC | МК | КН | DIS, W | P-POS | F | Ι | |
| Topic 8 Cha. | Su.20- Maharoga adhyaya (Lecture :2 hours, Non lecture: 2 l | nours) | · | • | | | | | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | Ι | |
| CO2 | Explain basic meaning and importance of key terms such as agantumukha, trividhaprerana, samanyaja-vikara, nanatmaja-vikara and atmarupa | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | Ι | |
| CO3,CO5 | Explain the basis for the classification of diseases. Ch.Su. 20/3 | СК | МК | K | L&G D,ML | M-CHT,TT-T heory,VV- Viva | F&S | Ι | |
| CO5 | Define nija and agantuja vyadhi. Ch.Su. 20/7 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO5 | Describe kaarana for nija and agantuja vyadhi. Ch.Su. 20/4-5 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | Ι | |

| CO3,CO5 | Enlist nanatmajavyadhi of vata and relate guna, atmarupa, vikritakarma of vata and its upakrama. Ch.Su. 20/12,13 | CAP | МК | К | L&G D | M-CHT,VV- Viva | F&S | Ι |
|-----------------|---|----------|--------|----|-------------|-----------------------------------|-----|---|
| CO3,CO5 | Enlist nanatmajavyadhi of pitta and relate guna, atmarupa, vikritakarma of pitta, and its upakrama Ch.Su. 20/14-16 | CAP | МК | К | L&G D | M-CHT,VV- Viva | F&S | Ι |
| CO3,CO5 | Enlist nanatmajavyadhi of Kapha and Relate guna, atmarupa, vikritakarma of Kapha and its Upakrama. Ch.Su. 20/17-19 | САР | МК | K | L&G D | M-CHT,VV- Viva | F&S | Ι |
| CO4,CO6,CO 8 | Make monographs of nanatamaja-vikaras (Activity, see activity list) | САР | DK | КН | TPW, BL | M-CHT,CR- W | F | Ι |
| CO3,CO6,CO 7 | Relate paribhasha of different terms in nanatamajavyadhi with descriptions available in Ashatanga sangraha Su 20/18 | CC | DK | КН | DIS | T-OBT | F | I |
| CO1,CO2 | Recite sutras Ch. Su. 20/ 3, 4, 5, 11,14, 17, 20-22 | СК | МК | К | SDL, REC | P-REC | F&S | Ι |
| C01,C02 | Summarize the chapter as per sutra Ch Su 20/23-25 | CC | NK | К | SDL | P-VIVA | F&S | Ι |
| Topic 9 Cha. | Su.21- Ashtauninditeeya adhyaya (Lecture :3 hours, Non le | cture: 3 | nours) | | • | | | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | Ι |
| CO2 | Explain basic meaning and importance of key terms such as ashtaninditapurusha, ashtadosha of atisthaulya, prasastapuruhsalakshana | СК | MK | К | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | I |
| CO2 | Enlist ashtaninditapurusha Ch Su 21/3 | СК | МК | К | L&G D,RP | TT-Theory,V V-Viva | F&S | I |
| CO4,CO5 | Enlist ashtadosha of atisthoola purusha and justify its ashtadosha Ch.Su. 21/4 | CAP | МК | K | L&G D,RP | P-SUR,CL- PR,VV-Viva | F&S | I |
| CO4,CO5,CO | Outline the diagnostic features of atisthula. Ch.Su.21/9 | CC | MK | K | L&G | TT-Theory,V | F&S | Ι |

| | | | | D | V-Viva | | | |
|---|--|---|--|---|---|---|--|--|
| Outline hetu and samprapti of atisthaulya Ch.Su. 21/4-8 | CAP | DK | К | L&PP T | TT-Theory,V V-Viva | F&S | Ι | |
| Describe chikistasutra for atisthula purusha and mention different formulations. Ch.Su. 21/20- 28 | CAP | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| Describe hetu, dosha and lakshana for atikrusha purusha. Ch.Su. 21/11-15 | CC | МК | К | L&PP T | TT-Theory,V V-Viva | F&S | Ι | |
| Describe chikistasutra for atikrusha purusha and mention different formulations Ch.Su. 21/20, 29-34 | CC | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| Interpret why atisthula purusha is difficult to treat compared to krushapurusha Ch.Su. 21/16-17 | CAP | МК | K | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| Enlist the features of ideal physique in individuals (prashasta purusha lakshana) Ch.Su. 21/18-19 | CC | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| Define nidra and enlist its types Ch Su 21/35&58 | СК | МК | К | L&PP T | TT-Theory,V V-Viva | F&S | Ι | |
| Determine significance of nidra as an etiological factor of sthaulya and karsya and its role in management of the same Ca.Su. 21/51 | CAP | МК | КН | DIS,C BL,F C | CL-PR | F&S | Ι | |
| Recite sutras Ch Su 21/ 3,4,16, 18, 19, 35, 50, 58 | СК | МК | К | SDL, REC | P-REC | F&S | Ι | |
| Summarize the chapter as per sutra Ch Su 21/60-62 | CC | NK | K | SDL | P-VIVA | F&S | Ι | |
| .Su.22- Langhanabrimhaneeya Adhyaya (Lecture :3 hours, 1 | Non lec | ture: 2 hours) | 1 | 1 | 1 | 1 | | |
| Justify the position of the chapter in the Samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | Ι | |
| - - - | Describe chikistasutra for atisthula purusha and mention different formulations. Ch.Su. 21/20- 28 Describe hetu, dosha and lakshana for atikrusha purusha. Ch.Su. 21/11-15 Describe chikistasutra for atikrusha purusha and mention different formulations Ch.Su. 21/20, 29-34 Interpret why atisthula purusha is difficult to treat compared to krushapurusha Ch.Su. 21/16-17 Enlist the features of ideal physique in individuals (prashasta purusha lakshana) Ch.Su. 21/18-19 Define nidra and enlist its types Ch Su 21/35&58 Determine significance of nidra as an etiological factor of sthaulya and karsya and its role in management of the same Ca.Su. 21/51 Recite sutras Ch Su 21/ 3,4,16, 18, 19, 35, 50, 58 Summarize the chapter as per sutra Ch Su 21/60-62 Langhanabrimhaneeya Adhyaya (Lecture :3 hours, Justify the position of the chapter in the Samhita and its | Describe chikistasutra for atisthula purusha and mention different formulations. Ch.Su. 21/20- 28CAPDescribe hetu, dosha and lakshana for atikrusha purusha. Ch.Su. 21/11-15CCDescribe chikistasutra for atikrusha purusha and mention different formulations Ch.Su. 21/20, 29-34CCInterpret why atisthula purusha is difficult to treat compared to krushapurusha Ch.Su. 21/16-17CAPEnlist the features of ideal physique in individuals (prashasta purusha lakshana) Ch.Su. 21/18-19CCDefine nidra and enlist its types Ch Su 21/35&58CKDetermine significance of nidra as an etiological factor of sthaulya and karsya and its role in management of the same Ca.Su. 21/51CAPRecite sutras Ch Su 21/ 3,4,16, 18, 19, 35, 50, 58CKSummarize the chapter as per sutra Ch Su 21/60-62CC I.Su.22- Langhanabrimhaneeya Adhyaya (Lecture :3 hours, Non lector)Justify the position of the chapter in the Samhita and itsCC | Describe chikistasutra for atisthula purusha and mention different formulations. Ch.Su. 21/20- 28CAPMKDescribe hetu, dosha and lakshana for atikrusha purusha. Ch.Su. 21/11-15CCMKDescribe chikistasutra for atikrusha purusha and mention different formulations Ch.Su. 21/20, 29-34CCMKInterpret why atisthula purusha is difficult to treat compared to krushapurusha Ch.Su. 21/16-17CAPMKEnlist the features of ideal physique in individuals (prashasta purusha lakshana) Ch.Su. 21/18-19CCMKDefine nidra and enlist its types Ch Su 21/35&58CKMKDetermine significance of nidra as an etiological factor of sthaulya and karsya and its role in management of the same Ca.Su. 21/51CKMKSummarize the chapter as per sutra Ch Su 21/60-62CCNKNKSummarize the chapter as per sutra Ch Su 21/60-62CCNKJustify the position of the chapter in the Samhita and itsCCMK | Describe chikistasutra for atisthula purusha and mention different formulations. Ch.Su. 21/20- 28CAPMKKDescribe hetu, dosha and lakshana for atikrusha purusha. Ch.Su. 21/11-15CCMKKDescribe chikistasutra for atikrusha purusha and mention different formulations Ch.Su. 21/20, 29-34CCMKKHInterpret why atisthula purusha is difficult to treat compared to krushapurusha Ch.Su. 21/16-17CAPMKKEnlist the features of ideal physique in individuals (prashasta purusha lakshana) Ch.Su. 21/18-19CCMKKHDefine nidra and enlist its types Ch Su 21/35&58CKMKKHDetermine significance of nidra as an etiological factor of sthaulya and karsya and its role in management of the same Ca.Su. 21/51CAPMKKHSummarize the chapter as per sutra Ch Su 21/60-62CCNKKSummarize the chapter as per sutra Ch Su 21/60-62CCNKKJustify the position of the chapter in the Samhita and itsCCMKK | Outline hetu and samprapti of atisthaulya Ch.Su. 21/4-8CAPDKKL&PP TDescribe chikistasutra for atisthula purusha and mention different formulations. Ch.Su. 21/20- 28CAPMKKL&G DDescribe hetu, dosha and lakshana for atikrusha purusha. Ch.Su. 21/11-15CCMKKL&PP TDescribe chikistasutra for atikrusha purusha and mention different formulations Ch.Su. 21/20, 29-34CCMKKHL&G DInterpret why atisthula purusha is difficult to treat compared to krushapurusha Ch.Su. 21/16-17CAPMKKL&G DEnlist the features of ideal physique in individuals (prashasta purusha lakshana) Ch.Su. 21/18-19CCMKKHL&G DDefine nidra and enlist its types Ch Su 21/35&58CKMKKHDIS.CDetermine significance of nidra as an etiological factor of sthaulya and karsya and its role in management of the same Ca.Su. 21/51CKMKKHDIS.CRecite sutras Ch Su 21/3,4,16, 18, 19, 35, 50, 58CKMKKSDL, RECSummarize the chapter as per sutra Ch Su 21/60-62CCNKKSDL LSU.22-Langhanabrimhaneeya Adhyaya (Lecture :3 hours, Non lecture: 2 hours)Justify the position of the chapter in the Samhita and itsCCMKKL&G | Outline hetu and samprapti of atisthaulya Ch.Su. 21/4-8CAPDKKL&PP TTT-Theory,V V-VivaDescribe chikistasutra for atisthula purusha and mention different formulations. Ch.Su. 21/20- 28CAPMKKL&PP DTT-Theory,V V-VivaDescribe hetu, dosha and lakshana for atikrusha purusha. Ch.Su. 21/11-15CCMKKL&PP TTT-Theory,V V-VivaDescribe chikistasutra for atikrusha purusha and mention different formulations Ch.Su. 21/20, 29-34CCMKKHL>T-Theory,V V-VivaInterpret why atisthula purusha is difficult to treat compared to krushapurusha Ch.Su. 21/16-17CAPMKKL>T-Theory,V V-VivaEnlist the features of ideal physique in individuals (prashasta purusha lakshana) Ch.Su. 21/18-19CCMKKHL>T-Theory,V V-VivaDefine nidra and enlist its types Ch Su 21/35&58CKMKKL&PP TTT-Theory,V V-VivaDetermine significance of nidra as an etiological factor of shaulya and karsya and its role in management of the same Ca.Su. 21/51CKMKKSDL, RECP-REC RECSummarize the chapter as per sutra Ch Su 21/60-62CCNKKSDL, P-VIVAP-VIVALustify the position of the chapter in the Samhita and itsCCMKKL&GINT,TT-Theory | Outline hetu and samprapti of atisthaulya Ch.Su. 21/4-8CAPDKKL&PTT-Theory,VF&SDescribe chikistasutra for atisthula purusha and mention different formulations. Ch.Su. 21/20- 28CAPMKKL>T-Theory,V V-VivaF&SDescribe hetu, dosha and lakshana for atikrusha purusha. Ch.Su. 21/11-15CCMKKL>T-Theory,V V-VivaF&SDescribe chikistasutra for atikrusha purusha and mention different formulations Ch.Su. 21/20, 29-34CCMKKL>T-Theory,V V-VivaF&SInterpret why atisthula purusha is difficult to treat compared to krushapurusha Ch.Su. 21/16-17CAPMKKL>T-Theory,V V-VivaF&SEnlist the features of ideal physique in individuals (prashasta purusha lakshana) Ch.Su. 21/13-19CCMKKHL>T-Theory,V V-VivaF&SDefine nidra and enlist its types Ch Su 21/35&58CKMKKHDIS,C BL,F CTT-Theory,V V-VivaF&SDetermine significance of nidra as an etiological factor of sthaulya and karsya and its role in management of the same Ca.Su. 21/51CKMKKKSDL, RECP-RECF&SRecite sutras Ch Su 21/3,4,16, 18, 19, 35, 50, 58CKMKKSDL, RECP-VIVAF&S LSU2-Langhanabrimhaneeya Adhyaya (Lecture :3 hours, Non lecture: 2 hours)Lustify the position of the chapter in the Samhita and itsCCMKKL&GINT,TT-TheorF&S | Outline hetu and samprapti of atisthaulya Ch.Su. 21/4-8CAPDKKL&PPTT-Theory,V V-VivaF&S1Describe chikistasutra for atisthula purusha and mention different formulations. Ch.Su. 21/20- 28CAPMKKL>T-Theory,V V-VivaF&SIDescribe hetu, dosha and lakshana for atikrusha purusha. Ch.Su. 21/11-15CCMKKL&PP TTT-Theory,V V-VivaF&SIDescribe chikistasutra for atikrusha purusha and mention different formulations Ch.Su. 21/20, 29-34CCMKKHL&G DTT-Theory,V V-VivaF&SIInterpret why atisthula purusha is difficult to treat compared to krushapurusha Ch.Su. 21/16-17CAPMKKL&G DTT-Theory,V V-VivaF&SIEnlist the features of ideal physique in individuals (prashasta purusha lakshana) Ch.Su. 21/18-19CCMKKHL&G DTT-Theory,V V-VivaF&SIDefine nidra and enlist its types Ch Su 21/35&58CKMKKL&PP TTT-Theory,V V-VivaF&SIDetermine significance of nidra as an etiological factor of sthaulya and karsya and its role in management of the same Ca.Su. 21/51CAPMKKKSDL RECP-NECF&SISummarize the chapter as per sutra Ch Su 21/60-62CCNKKSDL P-VIVAF&SILustify the position of the chapter in the Samhita and itsCCMKKL&GINT,TT-TheorF&SI |

| CO2 | Explain basic meaning and importance of key terms such as shadupakrama and dasavidhalanghana | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | Ι | |
|-----------------|--|----------|-------|----|-------------------|-----------------------------------|-----|---|--|
| CO2,CO4,CO 5 | Enlist and define shadupakrama. Ch.Su. 22/4, 9-12 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO2,CO5,CO 7 | Explain properties of dravyas used in shadupakrama with examples. Ch.Su. 22/12-17 | СК | МК | K | L&PP T,PB L | TT-Theory,V V-Viva | F&S | Ι | |
| CO4,CO5 | Enlist dasavidha-langhana and their indications Ch.Su. 22/19-23 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO2,CO4,CO 5 | Relate gurvadi guna and samanya visesha sidhanta with shadupakrama Ch Su 22/12-17 | СК | DK | КН | DIS,F C | T-EMI,VV- Viva | F&S | Ι | |
| CO4,CO5 | Identify dasavidhalanghana in treatment guidelines mentioned for different diseases | CAP | NK | КН | IBL,C BL | T-OBT,VV- Viva | F&S | Ι | |
| CO4,CO5 | Explain samyaklakshana of langhana, brimhana and sthambhana Ch Su 22/34,35,38,40 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO4,CO5 | Outline atiyoga and ayogalakshana of brimhana, langhana and sthambhana Ch Su 22/36-38 | СК | DK | K | L&G D,CB L | M-CHT,TT-T heory,VV- Viva | F&S | Ι | |
| CO1,CO2 | Recite sutras Ch Su 21/9-24 | СК | МК | К | SDL, REC | P-REC | F&S | Ι | |
| CO1,CO2 | Summarize chapter as per sutra Ch Su 22/44 | CC | NK | K | SDL | P-VIVA | F&S | Ι | |
| Topic 11 Cha | a.Su.23- Santarpaneeya Adhyaya (Lecture :2 hours, Non lect | ure: 0 h | ours) | | 1 | | | | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | КН | L&G D | INT,TT-Theor y,VV-Viva | F&S | Ι | |

| CO2 | Explain basic meaning and importance of key terms such as santarpana and apatarpana | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | Ι | |
|-----------------|--|---------|--------|----|------------------|-----------------------------------|-----|---|--|
| CO3,CO5 | Enlist santarpanadravya Ch Su 23/3-5 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO3 | Enlist santarpanajanyavyadhis Ch Su 23/5-7 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO3,CO6 | Explain chikitsa-sutra for santarpana-janya-roga. Ch.Su. 23/8 | CAP | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO3 | Explain apatarpanajanya vyadhis Ch Su 23/26-29 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO3,CO6 | Outline the management approach to apatarpana janya vyadhi Ch Su 23/30-32 | CC | МК | КН | L&G D,CB L | TT-Theory,V V-Viva | F&S | Ι | |
| CO1,CO2 | Recite sutras Ch Su 23/ 5-7, 26-29 | СК | МК | K | SDL, REC | P-REC | F&S | Ι | |
| CO2 | Summarize chapter as per sutra Ch Su 23/40 | CC | NK | K | SDL | P-VIVA | F&S | Ι | |
| Topic 12 Cha | a.Su.24- Vidhishoniteeya Adhyaya (Lecture : 3 hours, Non lec | ture: 2 | hours) | • | • | | • | • | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | Ι | |
| CO2 | Explain basic meaning and importance of key terms such as sonitadushti and visuddharakta | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | Ι | |
| CO3,CO4,CO 7 | Explain causative factors for raktadushti Ch.Su. 24/ 5-10 | СК | МК | K | L&G D | СНК | F&S | Ι | |

| CO4,CO6 | Explain diagnostic criteria of raktadushti. Ca.Su. 24/17 | CC | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
|-----------------|---|---------|----------|----|---------------------|---------------------------|-----|---|--|
| CO4,CO6,CO 7 | Enlist rakta-dushtijanya-roga. Ch.Su. 24/11-16, 28/11-13 | CC | МК | K | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO4,CO5 | Explain treatment principles of rakta-dushti. Ch.Su. 24/18. | CC | МК | К | L&G D | INT,VV-Viva | F&S | Ι | |
| CO3,CO4,CO 7 | Explain visudha-rakta lakshana Ch Su 23/22 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO3,CO4,CO 5 | Explain visuddha-rakta-purusha lakshana Ch Su 23/24 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO3,CO6,CO 7 | Relate the concept of raktadushti with similar references such as Ch.vi. 5/26 | CC | МК | КН | DIS | T-OBT | F | Ι | |
| CO4,CO5,CO 7 | Explain pathya in raktamoksha Ch Su 24/23 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO4,CO5,CO 6 | Summarize the samprapti of mada, murchaya and sanyasa Ch Su 24/25-29 | САР | DK | КН | L&G D,IBL ,RP | PUZ,TT-Theo ry,VV-Viva | F&S | Ι | |
| CO1,CO2 | Recite sutras Ch Su 24/ 14,18,20,21,22,24 | СК | МК | К | SDL, REC | P-REC | F&S | Ι | |
| CO2 | Summarise the chapter as per sutra Ch Su 24/59-60 | CC | NK | К | SDL | TT-Theory,V V-Viva | F&S | Ι | |
| Topic 13 Cha | Su.25- Yajjapurusheeya Adhyaya (Lecture :2 hours, Non l | ecture: | 4 hours) | | | | | | |
| CO1 | Justify the position of the Yajjapurusheeya chapter in the Samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | I | |

| CO2 | Explain basic meaning and importance of key terms in the chapter such as Hita, Ahita, Pathya and Apathya | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | Ι | |
|-----------------|--|-------------|------------------|----|---------------------|-----------------------------------|-----|---|-------------------|
| CO4,CO7 | Justify the role of different factors responsible for formation of purusha Ch Su 25/3-29 | CC | DK | КН | L&G D,ML | TT-Theory,V V-Viva | F&S | Ι | |
| CO1,CO8 | Appreciate importance of sambhasha in bringing out scientific conclusions | AFT- REC | NK | KH | L&G D,RP, PL | SA,TT-Theory ,VV-Viva | F&S | I | |
| CO2,CO3 | Differentiate factors related with ahara like Aharayoni, Prabhava, udarka, Upayoga, Rasa, Gurvadi Guna etc Ch Su 25/36 | СК | МК | КН | L&G D,LS | T-OBT,TT-Th eory,VV-Viva | F&S | Ι | |
| CO3,CO4,CO 5 | Enlist important agryas related with aushadha, anna and vihara Ch Su 25/38-40 | СК | DK | K | L&G D,FC, GBL | T-OBT,TT-Th eory,VV-Viva | F&S | Ι | H-DG ,H- RN |
| CO4,CO5,CO 7 | Define pathya and explain its importance Ch Su 25/45-47 | CC | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO4,CO7,CO 8 | Justify importance of hitahara and ahitahara (See activity list) | CAP | DK | КН | DIS,F C | INT,TT-Theor y,VV-Viva | F&S | Ι | |
| CO5 | Mention asavayonis Ch Su 25/49 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO1,CO2 | Recite sutras Ch Su 25/ 29,31,33,45,46,47,50 | СК | МК | К | SDL, REC | P-REC | F&S | Ι | |
| CO1 | Summarize the chapter with shloka number Ch Su 25/51 | СК | NK | К | SDL | TT-Theory,V V-Viva | F&S | Ι | |
| Topic 14 Cha | .Su.26- Atreyabhadrakaapyeeya Adhyaya (Lecture :3 hours | s, Non l | ecture: 3 hours) | | | | | | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its | CC | МК | K | L&G | INT,TT-Theor | F&S | Ι | |

| | importance | | | | D | y,VV-Viva | | | |
|-----------------|--|----|----|----|--------------------------|-----------------------------------|-----|----|------|
| CO2 | Explain basic meaning and importance of key terms such as dravyaprabhava, gunaprabhava, rasapanchaka and viruddha | СК | МК | К | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | Ι | |
| CO2,CO3,CO 5 | Enlist gunas of parthivadi dravyas Ch Su 26/11 | СК | DK | K | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO4,CO5 | Differentiate dravyaprabhava and gunaprabhava with examples Ch Su 26/13 | СК | МК | КН | L&G D | PUZ,TT-Theo ry,VV-Viva | F&S | Ι | H-DG |
| CO4,CO5 | Explain dravyakarmukata siddhant with examples Ch Su 26/13 | СК | МК | КН | L&G D,DA | TT-Theory,V V-Viva | F&S | Ι | H-DG |
| CO4,CO5,CO 6 | Explain the importance of paradi gunas as chikitsopayogi gunas (in diagnosis and treatment). Ch Su 26/29-35 (see activity list, activity no.5) | СК | DK | КН | L&G D,FC, SDL | TT-Theory,V V-Viva | F&S | Ι | |
| CO2,CO5 | Complement the existing knowledge of 'rasadi panchaka' with additions from Charakasamhita. | СК | DK | K | FC,S DL | T-OBT,TT-Th eory,VV-Viva | F&S | Ι | |
| CO2,CO5 | Differentiate the properties of three types of 'Vipakas' Ch Su 26/58-63 | СК | МК | K | DIS,F C | TT-Theory,V V-Viva | F&S | Ι | |
| CO4,CO5 | Explain method of perception of rasa, veerya and vipaka of dravyas Ch Su 26/66 | CC | МК | КН | L&G D,D | DEB,TT-Theo ry,VV-Viva | F&S | Ι | H-DG |
| CO2,CO4,CO 5 | Enlist the examples of prabhava Ch Su 26/68-70 | СК | МК | К | L&G D,ED U,SD L | TT-Theory,V V-Viva | F&S | Ι | H-DG |
| CO4,CO5,CO 7 | Enlist the types of viruddhaahara and principles of management of diseases caused by viruddhaahara. Ch Su 26/86, 104-105 | СК | МК | K | L&G D,BL, | P-PS,TT-Theo ry,VV-Viva | F&S | II | |

| | | | | | RLE | | | |
|-----------------|---|-----------|---------------|----|--------------|----------------------------|-----|-----|
| CO4,CO5 | Illustrate vichitra-pratyayarabdha with examples Ch Su 26/48-52 | САР | МК | KH | DIS,I BL | P-ID,TT-Theo ry,VV-Viva | F&S | П |
| CO1,CO2 | Recite the shlokas Ch Su 26/13,36,37,61,62,66,81,85 | СК | МК | K | SDL, REC | P-REC | F&S | II |
| CO4,CO5 | Relate different sidhantas on dravya mentioned in Ch.Su1, Ch Su 4, Ch Su 27 and Ch Vi 1 | CC | МК | КН | DIS,F C | CL-PR | F | Ι |
| CO1,CO2 | Summarize the chapter as per sutra Ch Su 26/107-113 | СК | NK | K | SDL | TT-Theory,V V-Viva | F&S | II |
| Topic 15 Cha | a.Su.27- Annapaana vidhi Adhyaya (Lecture :4 hours, Non le | ecture: 2 | hours) | | | | • | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | СК | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | Ι |
| CO2,CO5,CO 7 | Enlist the characteristics of hitahara and examples of hitaahara and ahitaahara. Ch Vi 27/3 | СК | МК | K | SDL | P-VIVA | F&S | Ι |
| CO2,CO5,CO 7 | Classify ahara into different vargas Ch Su 27/26 | СК | МК | К | FC,S DL | P-VIVA | F&S | Ι |
| CO4,CO5,CO 7 | Illustrate ahara-dravya through exhibition (See activity list, activity no.7) | CS | DK | SH | PrBL, RLE | Log book,TR | F | Ι |
| CO1,CO2 | Summarise the chapter as per Ch Su 27/351-352 | CC | NK | K | SDL | TT-Theory,V V-Viva | F&S | Ι |
| Topic 16 Cha | a.Su.28- Vividhashitapeeteeya Adhyaya (Lecture :4 hours, N | on lectu | re: 14 hours) | | | 1 | | н I |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | Ι |
| CO2 | Explain basic meaning of key terms in the chapter such as | СК | МК | K | L&G | QZ ,COM,TT- | F&S | Ι |

| | chaturvidha ahara, vyadhisaha sareera, dhatu-upadhatu-mala- indriya-pradoshajavyadhi | | | | D,BS | Theory,VV- Viva | | | |
|---------------------|---|----|----|----|---------------------|---------------------------------------|-----|---|--|
| CO2,CO7 | Enlist the four types of aahara Ch Su 28/3 | СК | МК | K | L&G D,ML | M-CHT,VV- Viva | F&S | Ι | |
| CO2,CO7 | Explain factors influencing susceptibility to diseases which modify the effects of pathya and apathya Ch Su 27/7 | СК | МК | КН | L&G D,SD L | TT-Theory,V V-Viva | F&S | Ι | |
| CO3,CO7 | Enlist the vyadhi- asaha shareera Ch Su 27/7 | СК | МК | KH | L&G D,IBL | TT-Theory,V V-Viva | F&S | Ι | |
| CO3,CO4,CO 5,CO7 | Outline dhatu-upadhatu-mala-indriya pradoshaja vyadhi (diseases caused by doshas situated in different dhatus, upadhatus, malas and indriyas) explain their treatment principles Ch Su 27/9-30 | CC | МК | КН | L&G D,IBL ,LS | T-OBT,M-CH T,TT-Theory, VV-Viva | F&S | I | |
| CO3,CO4,CO 7 | Explain mechanism koshtagati and sakhagati Ch Su 27/31-33 | CC | МК | КН | L&G D,FC | TT-Theory,V V-Viva | F&S | Ι | |
| CO3,CO7 | Emphasize the role of Prajnaparadha in causation of diseases Ch Su 27/39-40 | CC | МК | KH | L&G D | TT-Theory,V V-Viva | F&S | Ι | |
| CO1,CO2 | Recite sutras Ch Su 27/9-19,35-39, 45 | СК | МК | К | SDL, REC | P-REC | F&S | Ι | |
| CO1,CO2 | Summarize the chapter as per Ch Su 28/45-48 | СК | NK | К | SDL | T-OBT,TT-Th eory,VV-Viva | F&S | Ι | |
| CO3,CO6 | Relate dhatupradoshaja vyadhi with explanations in other contexts such as Ch.vi. 5/ 10-22, Ch.Su. 28/ 09- 19, Ch.Vi. 5/8 and dhatugatha avastha described in Ashtangasangraha Sutasthana | CC | DK | КН | DIS,B S | CL-PR | F | I | |

| | 1.5u.29- Dashapraanaayataneeya Aunyaya (Lecture .2 nou) | | ceture. 2 nours) | | | | | | |
|-----------------|--|-------------|------------------|----|-------------|-----------------------------------|-----|----|--|
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | п | |
| CO2 | Explain basic meaning and importance of key terms such as pranaayatan, praanabhisara, rogaabhisara, chadmachara, yogya chikitsak, karma kovidah. | СК | МК | К | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | П | |
| CO2,CO3,CO 7 | Enlist dasha praanayatanas. Ch Su 29/3,4 | CC | MK | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO8 | Enlist two types of bhishak. Ch Su 29/5 | CK | МК | K | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO8 | Explain the qualities of pranaabhisar, rogabhisara and bhishakchadmacahara Ch Su 29/7 | CC | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO8 | Appreciate the social hazards caused due to quackery | AFT- REC | DK | КН | BS,S DL | CR-W,VV- Viva | F&S | II | |
| CO8 | Enlist qualities of yogya chikitsak Ch Su 29/13. | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO8 | Illustrate characteristics of different types of vaidya through skit (see activity no.8) | PSY- SET | DK | SH | RP,F V | PRN | F | II | |
| CO1,CO2 | Recite sutras Ch Su 29/3,4,13. | СК | MK | К | SDL, REC | P-REC | F&S | II | |
| CO1,CO2 | Summarize the chapter as per sutra Ch. Su 29/14 | СК | МК | K | SDL | T-OBT,TT-Th eory,VV-Viva | F&S | II | |
| CO8 | Relate different references related to good qualities of Vaidya from different chapters Ch Su 11/50-53 | CC | МК | КН | FC | CL-PR,DEB | F | Π | |

Topic 17 Cha.Su.29- Dashapraanaayataneeya Adhyaya (Lecture :2 hours, Non lecture: 2 hours)

| Topic 18 Cha | .Su.30- Arthedashamahamooleeya Adhyaya (Lecture :2 hou | ırs, No | n lecture: 0 hou | rs) | | | | | |
|-----------------|---|---------|------------------|-----|--------------|---------------------------|-----|----|--|
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | СК | МК | К | L&G D | INT,TT-Theor y,VV-Viva | F&S | II | |
| CO2 | Explain basic meaning and importance of key terms such as artha, mahamula, mahaphala, shashwatatva | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO4,CO 7 | Explain the importance of hrudaya. Ch Su 30/3,4,5,6,7 | CC | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO7 | Relate concept of hridaya with details given in trimarmeeya, sareerasthana etc. | СК | МК | КН | L&G D,FC | T-OBT | F | II | |
| CO3,CO4,CO 7 | Explain the importance of ojas and its sthana Ch Su 30/8-12. | CC | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO4,CO 7 | Define terms dhamani, srotas, sira. Ch Su 30/12 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO4,CO 7 | Explain shresthatama bhava Ch Su 30/15 | СК | NK | К | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO5,CO 8 | Explain Ayurvedavid lakshana and their method of understanding in the form of vakyashah, vakyarthashah, arthavayavashah Ch Su 30/16 | СК | DK | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO4,CO 7 | Outline lakshana of sukhayu, asukhayu, hitayu and ahitayu Ch Su 30/24, 25 | СК | DK | КН | L&G D,IBL | PUZ,TT-Theo ry,VV-Viva | F&S | II | |
| CO3,CO4 | Define objective (prayojana) of Ayurveda Ch Su 30/26 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO5,CO 8 | Appreciate eternity of Ayurveda Ch Su 30/27 | CC | МК | KH | L&G D,BS | TT-Theory,V V-Viva | F&S | II | |

| CO3,CO4,CO 7,CO8 | Explain qualities of learner of Ayurveda and their objectives. Ch Su 30/29 | CC | DK | K | L&G D | TT-Theory,V V-Viva | F&S | Π | |
|---------------------|---|-------------|-----|----|-------------|--|-----|----|--|
| CO3,CO4,CO 7 | Enlist dashaprakaran of tantraartha. Ch Su 30/32. | СК | МК | КН | L,L& GD | P-VIVA,TT-T heory,VV- Viva | F&S | II | |
| CO3,CO4 | Outline the ashtasthanas of Charaka Samhita Ch Su 30/32 | СК | МК | К | L&G D | TT-Theory,PP -Practical,VV- Viva | F&S | II | |
| CO3,CO4,CO 6 | Enlist paryayas of Ayurveda. Ch Su 30/31 | СК | МК | К | L&G D | TT-Theory,PP -Practical,VV- Viva | F&S | II | |
| CO4,CO5 | Explain characteristics of pallavagrahi bhishak or consequences of incomplete knowledge with examples Ch Su 30/72-81. | СК | DK | К | L&G D | TT-Theory,PP -Practical,VV- Viva | F&S | II | |
| CO3,CO5,CO 8 | Appreciate importance of Shastra jnana Ch Su 30/84-85 | AFT- VAL | DK | КН | L&G D,BS | VV-Viva | F&S | Π | |
| CO1,CO2 | Explain importance of sangraha adhyayas | CC | DK | K | BL,S DL | VV-Viva | F&S | Π | |
| CO1,CO2 | Recite sutras Ch Su 30/3,410,11,12. | СК | МК | K | SDL, REC | P-REC | F&S | II | |
| CO1,CO2 | Summarize the chapter as per sutras Ch Su 30/86-87 | СК | NK | K | SDL | T-OBT,VV- Viva | F&S | II | |
| Topic 19 Cha | .Ni.01-Jwara nidana Adhyaya (Lecture :2 hours, Non lecture | e: 2 hou | rs) | - | - | | • | | |
| CO1 | Describe the sthana adhikarana (objectives) of Nidanasthana Ch.Ni.1/15 | СК | МК | K | L | P-VIVA,TT- Theory | F | II | |

| CO1 | Justify the position of the chapter in the samhita and its importance | СК | МК | К | L | T-EMI | F | II |
|-----------------|--|-----|----|----|-------------------|-----------------------------------|-----|----|
| CO2 | Explain basic meaning and importance of key terms such as nidanapanchaka and jwara | СК | МК | К | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | II |
| CO4,CO6,CO 7 | Explain nidanapanchaka with suitable examples. Ch.Ni.1/6-13 | СК | МК | KH | L&G D,FC | P-VIVA,TT- Theory | F&S | II |
| CO4,CO6 | Differentiate vyadhibodhaka nidana and vyadhi janaka nidana Ch Ni 1/1 Cakrapani commentary | CAN | DK | КН | L&G D,TB L | VV-Viva | F | II |
| CO2,CO4,CO 6 | Enlist synonyms of nidana (causative factors) and roga (disease) Ch Ni 1/3,5 | СК | МК | КН | L | TT-Theory,V V-Viva | F&S | Π |
| CO4,CO6 | Explain the importance of nidanapanchaka Ch.Ni 1/13 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | II |
| CO6 | Explain nidanapanchaka and elaborate nidana (causative factor), purvarupa (premonitory symptoms) lakshana/rupa (symptoms) | СК | МК | KH | L&G D | T- EW | F | II |
| CO4,CO6,CO 7 | Describe upashaya along with its types in detail Ch Ni 1/10 | CC | МК | SH | L&G D,BS | TT-Theory,V V-Viva | F&S | II |
| CO4,CO6 | Interpret the classification of samprapti (pathogenesis) Ch Ni 1/12 | СК | МК | КН | L&PP T,CB L | TT-Theory,V V-Viva | F&S | II |
| CO4,CO6 | Diffrentiate the samanya and vishesha samprapti of disease | САР | МК | SH | L_VC ,DIS | TT-Theory,V V-Viva | F&S | II |
| CO3,CO4 | Describe the vishesha nidana (specific factors of diseases) prakopa karana (causes of aggravation),samprapti (pathogenesis) | САР | МК | КН | L&G D | TT-Theory,V V-Viva | F | п |

| | and lakshana (symptoms) of jwara (fever) | | | | | | | | |
|-----------------|---|---------|----------|----|------------------|-----------------------------------|-----|----|--|
| CO3,CO6 | Outline vataja, pittaja, kaphaja, samsarga and sannipataja jwara Ch Ni 1/19-30 | CC | МК | КН | L&G D,CB L | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO4,CO 6 | Describe agantuja jwara nidana (causes factor of exogenous fever) Ch Ni 1/30,31 | СК | МК | КН | L | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO4,CO 5 | Differentiate nava and jeerna jwara chikitsa sutra (line of treatment) Ch Ni 1/36 | СК | МК | K | L,L& GD | TT-Theory,V V-Viva | F&S | II | |
| C01,C02 | Recite sutras Ch Ni/3,5,7-11,38-40 | СК | МК | К | SDL, REC | P-REC | F | II | |
| CO1,CO2 | Summarize the chapter as per sutras given at the end of the chapter Ch Ni 1/42-44 | СК | NK | К | SDL | T-OBT | F&S | II | |
| Topic 20 Cha | .Ni.02-Raktapitta nidana Adhyaya (Lecture :2 hours, Non I | ecture: | 2 hours) | | | | | | |
| CO1,CO2 | Justify the position of the chapter in the Samhita | CC | МК | К | L&G D | INT,TT-Theor y,VV-Viva | F&S | II | |
| CO2 | Explain basic meaning and importance of key terms such as pratimargaharana, sadhyasadhyata, raktapitta | СК | МК | КН | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | II | |
| CO2,CO4,CO 6 | Justify raktapitta paryaya and nirukti Ch Ni 2/5 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO4,CO 6 | Outline raktapitta nidana and samprapti (etiology and pathogenesis of raktapitta) | CC | DK | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO4,CO 6 | Define raktapitta and outline raktapitta purvarupa (premonitory features of raktapitta) upadrava (complication of raktapitta) Ch Ni 2/6,7 | CC | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |

| CO4,CO6 | Relate concept of trividha gati (adha, urdhwa, tiryag) with samprapti of raktapitta Ch Ni 2/8 | CAP | DK | KH | L&G D | T-EMI,TT-Th eory,VV-Viva | F&S | II | |
|-----------------|--|----------|------|----|--------------|-----------------------------------|-----|----|---|
| CO4,CO5,CO 7 | Explain concept of pratimargaharana in the context of raktapitta Ch Ni 2/9 | CAP | МК | КН | L&G D,LS | TT-Theory,V V-Viva | F&S | II | |
| CO4,CO6 | Illustrate sadhyasadhyata of raktapitta Ch Ni 2/9,12-20 | CAP | МК | KH | L&G D,PL | TT-Theory,V V-Viva | F&S | II | |
| CO4,CO6 | Outline asadhya lakshana of raktapitta (features of incurable disease) Ch Ni 2/23-26 | CC | DK | KH | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO1,CO2 | Recite sutras Ch Ni/19,27 | СК | МК | К | SDL, REC | P-REC | F&S | II | |
| CO2 | Summarize the chapter as per sutra Ch Ni 2/28,29 | СК | NK | K | SDL | T-OBT | F&S | II | |
| Topic 21 Cha | a.Ni.03-Gulma nidana Adhyaya (Lecture :2 hours, Non lectu | re: 2 ho | urs) | • | | • | | 1 | 1 |
| CO1,CO2 | Justify the position of the chapter in the Samhita | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | ΙΙ | |
| CO2 | Explain basic meaning and importance of key terms such as gulma, panchagulma and raktagulma | СК | MK | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | II | |
| CO2,CO4,CO 6 | Demonstrate the prakruti samasamveta and vikruti vishama samaveta siddhanta in the context of gunma Ch.Ni 3/6 | CAP | DK | КН | L&G D,IBL | INT,TT-Theor y,VV-Viva | F | Π | |
| CO3,CO6 | Mention the importance of gulmasthana in samprapti Ch Ni 3/7 | CC | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Π | |
| CO3,CO6 | Outline the features of vataja-pittaja-kaphaja and raktaja gulma along with samprapti lakshana (pathogenesis and clinical features) Ch Ni 3/6-11 | CC | DK | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |

| CO3,CO6 | Describe raktaja gulma samprapti, lakshana (pathogenesis and clinical features) Ch Ni 3/13-14 | CC | МК | К | L&G D | TT-Theory,V V-Viva | F&S | II | |
|-----------------|---|---------|--------|----|---------------------|---------------------------|-----|----|------|
| CO4,CO6 | Outline poorvarupa of gulma Ch Ni 3/15 | CC | DK | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO4,CO5 | Outline treatment principle of gulma Ch Ni 2/16,17 | CAP | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | Π | |
| C01,C02 | Summarise the chapter as per sutra Ch Ni 3/18 | СК | NK | К | SDL | T-OBT | F&S | II | |
| Topic 22 Cha | a.Ni.04-Prameha nidana adhyaya (Lecture :2 hours, Non lea | ture: 3 | nours) | | | | • | | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | КН | L&G D | INT,TT-Theor y,VV-Viva | F&S | II | |
| CO2 | Explain basic meaning and importance of key terms such as kleda, vikaravighatakara bhava | СК | МК | КН | L&G D,BS | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO4,CO 6 | Describe the concept of kleda and its role in samprapti of prameha Ch Ni 4/6-8 | CC | DK | КН | L&G D,CB L | TT-Theory,V V-Viva | F&S | Π | H-RN |
| CO4,CO6,CO 7 | Summarise the sankhyasamprapti of prameha Ch Ni 4/11,25,39 | СК | МК | К | L | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO3,CO 6 | Enlist causative factors and samprapi ghatakas in prameha Ch Ni 4/7 | СК | МК | K | L&G D,CB L | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO3,CO 6 | Explore the sootra 'eha khalu nidan-dosha-dooshya vishesahebhyo' in the manifestation of diseases Ch Ni 4/4 | CAP | МК | КН | L&G D,BS, CBL | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO3,CO 6 | Relate nidana, dosha, dushya and samprapti of vataja, pittaja and kaphaja prameha Ch Ni 4/5,8,24,36,37 | CC | МК | КН | L&G D,CB | TT-Theory,V V-Viva | F&S | II | |

| | | | | | L | | | | |
|-----------------|--|-------------|-------|----|----------------------------|-----------------------------------|-----|----|------|
| CO2,CO3,CO 6 | Justify the role of samprapti ghatakas in diagnosed cases of prameha | PSY- SET | NK | SH | L&G D,CB L,D_ BED | P-PS,TT-Theo ry,VV-Viva | F&S | II | H-RN |
| CO2,CO4,CO 5 | Outline the chikitsas sutra of prameha Ch Ni 4/49 | CC | DK | КН | L&G D,CB L | TT-Theory,V V-Viva | F&S | II | H-RN |
| CO4,CO6 | Explain sadhyasadhyata of prameha Ch Ni 4/11,27,38 | CC | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Π | |
| CO4,CO6 | Describe purvarupa and upadrava of prameha Ch Ni 4/47,48 | CC | МК | К | L_VC ,CBL | TT-Theory,V V-Viva | F&S | Π | H-RN |
| CO3,CO7 | Relate predisopsing factors of prameha with present day lifestyle | CAP | DK | КН | DIS,F C | VV-Viva | F&S | II | |
| CO1,CO2 | Recite sutras Ch Ni 4/3,4,48,49 | СК | МК | К | SDL, REC | P-REC | F&S | Π | |
| CO1,CO2 | Summarise the chapter as per sutra Ch Ni 4/53-55 | СК | NK | К | SDL | T-OBT | F&S | II | |
| Topic 23 Cha | a.Ni.05-Kushta nidana Adhyaya (Lecture :2 hours, Non lectu | re: 4 ho | ours) | · | | | | | - |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | К | L&G D | INT,TT-Theor y,VV-Viva | F&S | Π | |
| CO2 | Explain basic meaning and importance of key terms such as saptadravya, saptakushta | СК | МК | К | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | II | |
| CO4,CO6,CO 7 | Enlist and explain saptadravya of kushta Ch Ni 5/3 | CC | МК | КН | L&G D,CB | TT-Theory,V V-Viva | F&S | II | |

| | | | | | L | | | | |
|-----------------|--|----------|-------|----|------------------|---------------------------|-----|----|------|
| CO2,CO3,CO 6 | Explain the role of 'kleda' in the manifestation of kushta Ch Ni 5/3 | CC | DK | КН | L&G D,CB L | TT-Theory,V V-Viva | F&S | II | H-RN |
| CO2,CO3,CO 6 | Outline anekarupa of kushta (multiplicity) based on vedana, varna, samsthana and prabhava Ch Ni 5/4 | CC | DK | KH | L_VC ,CBL | TT-Theory,V V-Viva | F&S | II | H-RN |
| CO2,CO3,CO 6 | Enlist saptakushta with their dosha predominance Ch Ni 5/5 | CK | MK | K | L&G D,BL | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO4,CO 6 | Outline samanyanidana of kushta Ch Ni 5/6 | CC | DK | КН | L&G D,CB L | TT-Theory,V V-Viva | F&S | II | |
| CO4,CO6 | Enlist purvarupa of kushta Ch Ni 5/7 | CC | МК | КН | L&G D,CB L | TT-Theory,V V-Viva | F&S | II | H-RN |
| CO4,CO6 | Outline upadrava of kushta Ch Ni 5/11 | CC | DK | КН | L&G D,CB L | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO3,CO 6 | Explain sadhyasadhyata of kushta Ch Ni 5/9 | CK | МК | K | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO1,CO2 | Recite sutras Ch Ni 5/3,5 | СК | МК | K | SDL, REC | P-REC | F&S | Π | |
| C01,C02 | Summarise the chapter as per sutra Ch Ni 5/16 | СК | NK | K | SDL | T-OBT | F&S | Π | |
| Topic 24 Cha | a.Ni.06-Shosha nidana Adhyaya (Lecture :2 hours, Non lectu | re: 2 ho | ours) | · | | | | | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | II | |

| CO2 | Explain basic meaning and importance of key terms such as chaturvidha ayatana and ekadasarupa | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | П |
|-----------------|---|----------|-------|----|-------------------|-----------------------------------|-----|----|
| CO2,CO3,CO 6 | Explain role of four aetiological factors (chaturvidha-ayatana) in samprapti of shosha. Ch Ni 6/4,6,7(1),8,10 | CC | МК | КН | L&PP T,CB L | TT-Theory,V V-Viva | F&S | п |
| CO2,CO3,CO 6 | Enlist ekadasarupa of shosha Ch Ni 6/14 | СК | МК | K | L&G D,ML | TT-Theory,V V-Viva | F&S | II |
| CO2,CO3,CO 6 | Outline the purvarupa of sosha Ch Ni 6/13 | CC | DK | KH | L&G D | TT-Theory,V V-Viva | F&S | II |
| CO2,CO3,CO 6 | Explain sadhyasadhyata of shosha Ch Ni 6/15,16 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | II |
| CO4,CO6,CO 7 | Relate concept of dharaneeya adharaneeya vega to the context of shosha nidana | CAP | МК | KH | DIS | CL-PR | F | II |
| CO3,CO4,CO 7 | Justify the importance of ashtaahara vidhi visesha ayatana in the context of prevention of shosha | CAP | МК | KH | DIS,F C | CL-PR | F | II |
| CO1,CO2 | Recite sutras Ch Ni 6/3,5,7,9,11,14 | СК | МК | K | SDL, REC | P-REC | F&S | II |
| CO1,CO2 | Summarise the chapter as per sutra Ch 6/17 | СК | NK | K | SDL | T-OBT | F&S | II |
| Topic 25 Cha | a.Ni.07-Unmada nidana Adhyaya (Lecture :2 hours, Non lect | ure: 4 h | ours) | | | | • | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance` | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | II |
| CO2 | Explain basic meaning and importance of key terms such as ashtavibhrama, doshonmada and bhutonmada | СК | МК | К | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | II |

| CO2,CO3,CO 6 | Define unmada and enlist ashtavibhrama Ch N 7/5 | СК | МК | K | L&G D | QZ ,TT-Theor y,VV-Viva | F&S | II | |
|---------------------|---|-----|----|----|-------------------|----------------------------------|-----|----|--|
| CO2,CO3,CO 6 | Illustrate ashtavibhrama in different types of unmada | CAP | NK | КН | L_VC ,CBL | TT-Theory,V V-Viva | F | II | |
| CO4,CO6,CO 7 | Explain sankhyasamprapti of unmada Ch Ni 7/3 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO4,CO6,CO 7 | Interpret unmada abhimukha karana (predisposing factors for unmada) in the contemporary scenario Ch Ni 7/3-4 | CC | DK | КН | L_VC ,CBL | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO3,CO 6 | Interpret the role of prajnaparadha as an important etiological factor in the background of unmada Ca.Ni. 7/19-22 | CC | DK | кн | L&G D,L_ VC | CR-RED,TT- Theory,VV- Viva | F&S | п | |
| CO4,CO6,CO 7 | Summarise different descriptions of concept of prajnaparadha as aetiological factor Ch Su 8, 11, Ch Vi Ch Sa 1, Ch Vi 3 | CC | МК | КН | DIS,F C | PRN | F | II | |
| CO2,CO3,CO 6 | Outline the purvarupa of unmada Ch Ni 7/6 | CC | DK | K | L_VC ,CBL | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO4,CO 5 | Explain chikitsasutra of unmada Ch Ni 7/8,9 | CC | МК | K | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO3,CO 4,CO6 | Differentiate doshonamda and bhutonmada Ch Ni 7/10-11 | CC | DK | КН | L&PP T | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO3,CO 6 | Summarize causes, features purpose (prayojana) and treatment of agantu unmada Ch Ni 7/12-17 | СК | DK | K | L&PP T | TT-Theory,V V-Viva | F&S | II | |
| CO1,CO2 | Recite sutras Ch Ni 7/ 3,5,19-22 | СК | МК | К | SDL, REC | P-REC | F&S | II | |
| C01,C02 | Summarise the chapter based on Sutra Ch Ni 7/24 | СК | NK | К | SDL | T-OBT | F&S | II | |

| Topic 26 Cha | .Ni.08-Apasmara nidana adhyaya (Lecture :2 hours, Non | lecture: 4 | hours) | | | | | | |
|-----------------|---|------------|--------|----|----------------------------|-----------------------------------|-----|----|------|
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | К | L&G D | INT,TT-Theor y,VV-Viva | F&S | II | |
| CO2 | Explain basic meaning and importance of key terms such as nidanarthakara roga, vyadhisankara, tiryaggata dosha | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | II | |
| CO2,CO4,CO 6 | Define apasmara Ch Ni 8/5 | СК | МК | К | L,L& PPT | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO4,CO 6 | Explain apasmaraabhimukhakarana (predisposing factors of apasmara) Ch Ni 8/4 | СК | МК | КН | L&G D,CB L | TT-Theory,V V-Viva | F&S | Π | |
| CO2,CO4,CO 6 | Outline visesha-lakshana of apasmara Ch Vi 8/8 | CC | DK | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO4,CO 6 | Explain cikitsasutra of apasmara Ch Ni 8/10 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Π | |
| CO2,CO4,CO 6 | Explain nidanarthakara roga Ch Ni 8/16-19 | CC | МК | КН | L&G D,L_ VC,C BL | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO4,CO 6 | Explain vyadhisankara Ch Ni 8/21-22 | CC | МК | КН | L&PP T,L_ VC,C BL | TT-Theory,V V-Viva | F&S | Π | H-RN |
| CO2,CO4,CO 5 | Differentiate sudha and asuddha chikitsa Ch Ni 8/23 | CC | МК | KH | L&G D,BS, CBL | TT-Theory,V V-Viva | F&S | Π | |

| CO2,CO4,CO 6 | Define and relate different types of sadhyasadhyata Ch Ni 8/33-35 | CC | МК | КН | DIS,P BL,C BL,P ER | TT-Theory,V V-Viva | F&S | II | H-RN |
|-----------------|--|-------------|-------|----|-----------------------------|---------------------------|-----|-----|------|
| CO2,CO4,CO 5 | Describe tiryaggatadosha - cikitsasutra Ch Ni 8/36-39 | СК | МК | К | L&G D | TT-Theory | F&S | П | |
| CO6,CO8 | Document experiences of physicians on nidanarthakara roga (Activity no.9) | PSY- SET | DK | КН | DIS,T PW | C-INT | F | II | |
| CO4,CO6,CO 7 | Summarise the information gathered from Nidanasthana through Quiz (activity no.10) | CAP | DK | КН | FC,D | QZ | F | Π | |
| C01,C02 | Recite sutras Ch Ni 8/3, 5, 16-22, 33-35,36-39 | СК | МК | К | SDL, REC | P-REC | F&S | II | |
| CO1,CO2 | Summarise the chapter based on sutra 42-44 | СК | NK | K | SDL | T-OBT | F&S | II | |
| Topic 27 Cha | .Vi.01- Rasa vimana Adhyayam (Lecture :2 hours, Non lectu | ire: 3 ho | ours) | • | | | | • | |
| CO1,CO2 | Explain sthana adhikarana of (objectives) of Vimanasthana Ch Vi 1/3 | СК | МК | К | L&G D,LS | CR-W,TT-The ory,VV-Viva | F&S | III | |
| C01,C02 | Justify the position of the chapter in the Samhita and its importance | CC | МК | К | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO2,CO4 | Explain basic meaning and importance of key terms such as prakritisama samaveta, vikirti vishama samaveta, ahara vidhi visesha ayatana, satmya | СК | МК | К | DIS,P rBL | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO4 | Explain the prakrutisamasamavet and vikrutivishamasamavet siddhanta with suitable examples. Ch Vi 1/9,10 | СК | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | III | H-DG |
| CO2,CO4,CO 5 | Explain chaturvidha prabhava(rasa-dravya-dosh-vikara prabhava) with examples Ch Vi 1/12 | СК | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | III | H-DG |

| CO2,CO4 | Describe the dravyaprabhava in taila,ghrita and madhu with the help of 'samanya vishesha siddhanta' Ch Vi 1/14 | CC | МК | КН | L&G D,BL | DEB,TT-Theo ry,VV-Viva | F&S | III | |
|-----------------|--|----------|--------------|----|------------------|---------------------------------|-----|-----|------|
| CO2,CO5,CO 7 | Explain the dravyas which should be avoided for regular consumption Ch Vi 1/15-19 | CC | МК | КН | L&G D,RL E | M-CHT,TT-T heory,VV- Viva | F&S | III | |
| CO2,CO4,CO 7 | Explain satmya and its types Ch Vi 1/20 | CC | МК | КН | L&G D,BS | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO7 | Summarize ashta aharavidhivisheshayatana and its role in preservation of health. Ch Vi 1/20-23 | СК | МК | К | L&G D,PS M | DEB,TT-Theo ry,VV-Viva | F&S | III | H-SW |
| CO2,CO4,CO 7 | Relate concept of satmya with satmyapareeksha Ch.Vi 8 | CC | МК | КН | DIS | CL-PR | F | III | |
| CO2,CO7 | Explain aharavidhi vidhana and bhojya sadgunya Ch Vi 1/24,25 | CC | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | III | H-SW |
| CO3,CO7 | Appreciate the importance of popularizing importance of dietary rules (see activity list) | CAP | DK | КН | PrBL | Log book | F | III | |
| CO4,CO5 | Differentiate and apply samanagunadravya and samanagunabhuyishtadravya Ca Vi 1/7 | CAP | NK | КН | DIS | CL-PR | F | III | |
| CO1,CO2 | Recite sutras Ch Vi 1/9,10,20,24 | СК | МК | K | SDL, REC | P-VIVA,TT- Theory | F&S | III | |
| CO1,CO2 | Summarize the chapter based on sutra Ch Vi 1/27,28 | СК | NK | K | SDL | T-OBT,VV- Viva | F&S | III | |
| Topic 28 Cha | .Vi.02-Trividha kuksheeya Adhyayam (Lecture :2 hours, N | on lectu | re: 0 hours) | | • | • | • | • | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | KH | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |

| CO2 | Explain basic meaning of key terms such as trividha kukshi, matra-amatra ahara, amadosha, amavisha | СК | MK | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | III | |
|-----------------|---|-----|----|----|---------------------------|-----------------------------------|-----|-----|--|
| CO2,CO4,CO 7 | Explain aharamatra based on trividha kukshi Ch Vi 2/3 | CC | МК | KH | L&G D,IBL | C-INT,TT-The ory,VV-Viva | F&S | III | |
| CO2,CO7 | Explain the matravat ahara (ideal quantity of food) and amatravatwa of ahara with its types Ch Vi 2/6 | CC | МК | KH | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO4,CO7 | Justify effects of heenamatra and atimatra ahara Ch Vi 2/7 | CAP | MK | KH | L&G D,PB L,FC | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO7 | Enlist and explain the mental factors affecting digestion of food Ch Vi 2/8 | CC | МК | КН | L_VC ,EDU | TT-Theory,V V-Viva | F&S | III | |
| CO4,CO5 | Outline hetu, linga and aushadha of two types of amadosha Ch Vi 2/10-13 | CC | МК | КН | L&PP T,CB L,PE R | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO7 | Explain the concept of amavisha Ch Vi 2/12 | CC | MK | KH | L&G D,CB L | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO3,CO 4 | Define amasaya with reference to its position Ch Vi 2/17 | СК | МК | K | L&G D,D- M | TT-Theory,V V-Viva | F&S | III | |
| CO1,CO2 | Recite sutras Ch Vi 2/9 | СК | МК | K | SDL, REC | P-REC,TT- Theory | F&S | III | |
| CO2 | Summarize the chapter based on sutra Ch Vi 2/19 | СК | NK | K | SDL | T-OBT,VV- Viva | F&S | III | |

| Topic 29 Cha | a.Vi.03-Janapadodhwansaneeya Vimanam Adhyaya (Lectu | re :2 ho | urs, Non lectur | e: 2 hours | s) | | | | |
|--------------|--|----------|-----------------|------------|-----------------------|-----------------------------------|-----|-----|--|
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO2 | Explain basic meaning and importance of key terms like janapadodhwamsa, daiva and purushakara | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | Ш | |
| CO2,CO5 | Justify the importance of timely collection of medicines Ch Vi 3/4 | CAP | DK | К | L&G D,BS | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO7 | Enlist the commomn causes of janapadodhwamsa Ch Vi 3/6 | CC | МК | KH | L&G D,BS, FC | TT-Theory,V V-Viva | F&S | ш | |
| CO2,CO7 | Describe the lakshanas of dushti of vayu, jala, desha and kala. Ch Vi 3/7 | CC | MK | KH | L_VC ,PBL, RP | TT-Theory,V V-Viva | F&S | III | |
| CO4,CO7 | Interpret janapadodhvamsa in contemporary epidemiology (see also activity list) | CAP | NK | KH | DIS,B S,PBL ,FV | Log book,VV- Viva | F&S | III | |
| CO2,CO5 | Summarize the treatment principles of janapadodhwamsakara vikaras Ch Vi 3/12-18 | СК | МК | KH | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO7 | Explain the role of adharma in janapadodhwamsa Ch Vi 3/20 | CC | МК | KH | DIS,B S | DEB,TT- Theory | F&S | III | |
| CO2,CO7 | Outline the concept of Niyat and Aniyat Ayu. Ch Vi 3/28-35 | CC | DK | KH | L&G D,PB L | DEB,TT-Theo ry,VV-Viva | F&S | ш | |
| CO3,CO4,CO | Relate concept of daiva and purushakara with references Ca Sha | CC | MK | КН | DIS,F | CL-PR | F | III | |

| 7 | 2/44. Ca Sh 6/27. | | | | C | | | | |
|-----------------|---|----------|-------------------|----------|---------------------|-----------------------------------|-----|-----|------|
| CO2,CO4,CO 7 | Differentiate daiva and purushakara Ch Vi 3/29-30 | CC | МК | К | L&G D,BS | CR-W,TT-The ory,VV-Viva | F&S | III | |
| CO4,CO5 | Explain hetuviparit chikitsa in jwara Ch Vi 3/39-40 | CC | МК | КН | L&G D,CB L | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO4,CO5 | Explain apatarpana and its types. Ch Vi 42-44 | CC | МК | КН | L&G D,CB L | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO7 | Explain concept of desha Ch Vi 3/47-48 | CC | МК | К | L_VC ,DIS, FV | PA,TT-Theory ,VV-Viva | F&S | III | |
| CO2,CO4,CO 7 | Summarise the term karma with reference to different contexts | CC | МК | КН | DIS,F C | PRN | F | III | |
| CO1,CO2 | Recite sutras Ch Vi 3/6,10 | СК | МК | K | SDL, REC | P-REC,TT- Theory | F&S | III | |
| CO1,CO2 | Summarize the chapter based on sutra Ch Vi 3/49-52 | СК | NK | K | SDL | T-OBT,VV- Viva | F&S | III | |
| Topic 30 Cha | a.Vi.04-Trividha roga vishesha vijnyaneeya adhyaya (Lectu | re :2 ho | ours, Non lecture | e: 3 hou | rs) | | | | • |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | КН | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO2 | Explain basic meaning and importance of key terms such as trividha roga visesha vijnana | СК | МК | К | L&G D | QZ ,COM,TT- Theory,VV- Viva | F&S | III | |
| CO2,CO6 | Explain the application of aptopadesha, pratyaksha and anumana | CC | МК | КН | L,CB | P-PS,TT-Theo | F&S | III | H-RN |

| | in clinical examination. Ch Vi 4/3-8 | | | | L | ry,VV-Viva | | | |
|-------------|--|----------|-------|----|------------------|-----------------------------------|-----|-----|------|
| CO2 | Recite sutra Ch Vi 4/4,12 | СК | МК | К | SDL, REC | P-VIVA,P- REC | F&S | III | |
| CO1,CO2 | Summarise the chapter as per sutra no. Ch Vi. 4/13-14 | СК | NK | K | SDL | T-OBT,VV- Viva | F&S | III | |
| Topic 31 Cl | na.Vi. 05- Sroto vimana Adhyaya (Lecture :2 hours, Non lectu | re: 2 hc | ours) | | | | | • | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | KH | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO2 | Explain basic meaning and importance of key terms such as srotas, srotodushti | СК | МК | К | L | TT-Theory,V V-Viva | F&S | III | |
| CO1,CO2 | Explain importance of srotas Ch Vi 5/3-4 | СК | МК | К | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | III | |
| CO2 | Enlist the types of srotas Ch Vi 5/7 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO3 | Explain types and general causative factors of srotodushti Ch Vi 5/23,24 | СК | МК | K | L&G D | T-OBT,TT-Th eory,VV-Viva | F&S | III | H-RN |
| CO4,CO5 | Explain hetu, lakshan and chikitsa of specific strotodushti Ch Vi 5/8, 10-22, 26-28 | СК | MK | К | L&G D,CB L | TT-Theory,V V-Viva | F&S | III | H-RN |
| CO1,CO2 | Recite sutras Ch Vi 5/3,4,7,9-27 | СК | MK | K | SDL, REC | P-REC,TT- Theory | F&S | III | |
| CO1,CO2 | Summarize the chapter based on Ch Vi5/28-30 | СК | NK | К | SDL | T-OBT,VV- Viva | F&S | III | |

| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
|-----------------|--|----|----|----|-------------|----------------------------|-----|-----|------|
| CO2 | Explain basic meaning and importance of key terms such as roganeeka, anubandhya, anubandhy | СК | MK | К | L | TT-Theory,V V-Viva | F&S | III | |
| CO1,CO3 | Enlist the types of diseases based on prabhav, bala, adhishtana, nimmitta, ashay. Ch Vi 6/3 | СК | MK | К | L&G D | TT-Theory,V V-Viva | F&S | III | H-RN |
| CO2 | Explain the rationale behind classification of diseases. Ch Vi 6/4 | CC | MK | КН | L&G D,BS | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO2,CO3 | Enlist the diseases caused by shareera and manas doshas.Explain the relation between shareera and manasa doshas. Ch Vi 6/6-9 | СК | MK | К | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO3 | Explain anubandhya and anubandha doshas Ch.Vi6/11 | СК | MK | К | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO3,CO 7 | Explain four types of agni. Ch Vi 6/12 | СК | MK | К | L&G D,PL | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO7 | Enlist types of shareera prakruti Ch Vi 6/13 | СК | МК | К | L&G D | P-ID,TT-Theo ry,VV-Viva | F&S | III | |
| CO2,CO7 | Summarize the treatment principles of Prakrutika doshas (Vatala ,Pittal,Shlemal Prakrutis) Ch Vi 6/14-18 | CC | МК | КН | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO2 | Enlist qualities of Rajavaidya Ch Vi 6/19 | СК | МК | К | L,RP | P-RP,VV- Viva | F&S | III | |
| CO1 | Summarize the chapter based on sutras Ch Vi 6/42-44 | СК | NK | К | SDL | T-OBT,VV- Viva | F&S | III | |

| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | КН | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
|---------------------|---|-----------|------------------|----|---------------------|-----------------------------------|-----|-----|------|
| CO2 | Explain basic meaning and importance of key terms such as dvividah vyadhita prurusha | CK | МК | К | L | TT-Theory,V V-Viva | F&S | Ш | |
| CO2,CO3 | Explain two types of vyadhit purusha (guru vyadhita and laghu vyadhita) Ch Vi 7/3,4 | CC | МК | КН | L,RP | TT-Theory,V V-Viva | F&S | III | H-RN |
| CO2,CO8 | Explain two types of vaidya (jnani and ajnani) Ch Vi 7/4 | CC | MK | КН | L&G D | TT-Theory,V V-Viva | F&S | Ш | |
| CO2,CO3,CO 4,CO5 | Enlist the types of krimis (see activity list also) Ch Vi 7/9 | CC | МК | КН | L&G D,FC, EDU | QZ ,PUZ,TT- Theory,VV- Viva | F&S | ш | H-RN |
| CO4,CO5 | Explain the trividha chikitsa Ch Vi 7/14 | CK | MK | К | L&G D | TT-Theory,V V-Viva | F&S | Ш | |
| CO2 | Recite sutra Ch Vi 7/28 | СК | МК | K | REC | VV-Viva | F&S | III | |
| CO1,CO2 | Summarize the chapter with the help of Slokas 31 and 32 | CK | NK | К | SDL | T-OBT,VV- Viva | F&S | Ш | |
| Topic 34 Cha | .Vi. 08-Rogabhishagjiteeyam Adhyaayam. (Lecture :5 hour | rs, Non l | ecture: 11 hours |) | | | | | |
| C01,C02 | Justify the position of the chapter in the Samhita and its importance | CC | MK | К | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO1,CO2,CO 4 | Explain the basic meaning and importance of sastrapareeksha, trividha upaya, tadvidyasambhasha, karya abhiivritti ghataka, dasavidha pareekshyabhava, dasavidha atura pareeksha | CC | МК | К | L | TT-Theory,V V-Viva | F&S | Ш | |
| C01,C02 | Explain shashtrapareeksha. Ch Vi 8/3 | CC | МК | K | L&G D,BL | DEB,TT-Theo ry,VV-Viva | F&S | III | |

| CO2 | Enlist the three means of knowledge (trividha upaya). Ch Vi 8/6 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | III | |
|---------------------|---|----------|-------------|----|------------------|---------------------------|-----|-----|------|
| CO2 | Explain the adhyayan and adhyapana vidhi. (also see activity list) Ch Vi 8/7,8 | СК | МК | K | L,W | SA,VV-Viva | F&S | III | |
| CO1,CO2 | Outline sambhashavidhi C Vi 8/16-18 | СК | DK | КН | L&G D,ED U | DEB,TT-Theo ry,VV-Viva | F&S | III | |
| CO1 | Describe three types of parishat Ch Vi 8/19,20 | СК | DK | K | L,RP, SDL | P-RP,VV- Viva | F&S | III | |
| C01,C02 | Enlist vadamarga padani Ch Vi 8/27 | СК | DK | K | L,FC | TT-Theory,V V-Viva | F&S | III | |
| C01,C02 | Explain dashavidha pareekshya bhavas. Ch Vi 8/68-77, 84 | СК | МК | K | L&G D,BL | QZ ,TT-Theor y,VV-Viva | F&S | III | |
| CO3,CO4,CO 6,CO7 | Explain dhatusamya pareeksha Ch Vi 8/89 | CC | МК | KH | L,DIS | CHK,TT-Theo ry,VV-Viva | F&S | III | |
| CO1,CO2,CO 6 | Explain dashavidha aturapareeksha. Ch Vi 8/94 -123 | CC | МК | КН | L&G D,CB L | PUZ,TT-Theo ry,VV-Viva | F&S | III | H-RN |
| C01,C02 | Recite the sutras Ch Vi. 8/ 3,6 68-78. | СК | МК | K | SDL, REC | P-REC,TT- Theory | F&S | III | |
| CO1,CO2 | Summarize the chapter with the help of shlokas 52-56 | CC | NK | K | SDL | T-OBT,VV- Viva | F&S | III | |
| Topic 35 Cha | A.Sha.01-Katithapurusheeya Adhyaya (Lecture :2 hours, Nor | n lectur | e: 3 hours) | | - | | • | - | |
| CO1,CO2 | Describe the sthana adhikarana (objectives) of sharirasthana Cha.Sha 8/69 | CC | МК | K | L&G D | TT-Theory,V V-Viva | F&S | Π | |

| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | СК | МК | К | L&G D | INT,TT-Theor y,VV-Viva | F&S | п |
|---------------------|---|----|----|----|-------------|-----------------------------------|-----|----|
| CO2 | Explain basic meaning and importance of key terms purusha, mana, atma, yoga and moksha | СК | МК | К | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | Ш |
| CO2,CO4 | Define ekadhatupurusha, shaddhatvatmak purush, chaturvimashataika purusha and rashi purusha, Ca Sh 1/16, 17, 35 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Ш |
| CO2,CO3,CO 4 | Explain lakshana, guna, vishaya and karma of manas and its role in jnanotpatti krama Ca Sha 1/ 18-24 | CC | MK | K | L&G D,FC | TT-Theory,V V-Viva | F&S | II |
| CO2,CO4 | Enlist ashtaprakruti and shodasha vikara. Ca Sha 1/63-64 | CC | МК | KH | L&G D | TT-Theory,V V-Viva | F&S | II |
| CO2,CO4 | Explain srusthiutpatti krama and pralaya Ca Sha 1/ 66-69 | CC | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | П |
| CO2,CO4,CO 7 | Identify atmalinga as basic features of living organism Ca Sha 1/70-74 | CC | MK | К | DIS,F C | TT-Theory,V V-Viva | F&S | II |
| CO2,CO5 | Explain naishtiki chikitsa Ca Sha 1/86-94 | CC | МК | KH | L&G D | TT-Theory,V V-Viva | F&S | II |
| CO2,CO7 | Explain dukhahetavah (causes of misery) Ca Sha 1/98 | CC | МК | KH | L&G D | TT-Theory,V V-Viva | F&S | II |
| CO2,CO3,CO 4,CO7 | Outline asatmyendriyartha samyoga as a cause of diseases Ca Sha 1/118-128. | CC | МК | KH | L&G D,FC | DEB,TT-Theo ry,VV-Viva | F&S | II |
| CO2,CO4,CO | Define and explain prajnaaparadha, with terms dhivibhramsha, | CC | МК | KH | L&G | TT-Theory,V | F&S | II |

| 7 | dhruti vibhramsha, smriti vibhramsha.Ca Sha 1/99-102. | | | | D | V-Viva | | | |
|---------------------|---|-------------|-------------|----|-----------------------------|---------------------------|-----|----|---|
| CO2,CO4,CO 7 | Describe vedana, vedana adhishtana and vedana nivrutti Ca Sha 1/134-137. | CC | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO4,CO 7 | Define state of Yoga Ca Sha 1/138-141 | СК | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO4,CO 7 | Outline mokshaprapti upaya. Ca Sha 1/142-146 | CC | DK | КН | L&G D,BS | P-VIVA,TT- Theory | F&S | II | |
| CO1,CO4,CO 7 | Explain lakshana of Prashaanta Bhutaatma. Ca Sha 1/155-156 | СК | DK | K | L&G D | VV-Viva | F&S | II | |
| CO2,CO3,CO 4,CO7 | Enlist and explain smriti hetu Ch Sha 1/148-149 | CC | МК | КН | L&PP T | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO7 | Relate smritihetus with process of learning | CAP | NK | КН | L_VC ,BS | VV-Viva | F | II | |
| CO3,CO8 | Illustrate smritihetus through game (activity no.11) | PSY- SET | DK | SH | EDU, SDL, PSM, GBL | O-GAME | F | II | |
| CO1,CO2 | Recite sutras Cha.Sha.16 -23, 28-30,36, 63, 64,70-74, 98,102,109,137-139, 148,149 | СК | МК | K | SDL, REC | P-REC,TT- Theory | F&S | II | |
| CO2 | Summarize the chapter based on sutra Ca. Sha 1/156 | СК | NK | K | SDL | T-OBT,VV- Viva | F&S | II | |
| Topic 36 Cha | .Sha.02-Atulyagothreeyam Adhyaaya (Lecture :1 hours, No | n lectur | e: 0 hours) | · | • | | • | • | - |
| CO1,CO2 | Justify the position of the chapter in the Shareerasthana and its importance | CC | МК | К | L&G D | INT,TT-Theor y,VV-Viva | F&S | II | |
| | | | 1 | | | | | | L |

| CO2 | Explain basic meaning and importance of key terms in the chapter atulya-gotra, beeja, dwireta, kliba, prajnaparadha, pratikarma, daiva | СК | DK | К | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | II | |
|-----------------|--|----|----|---|------------------|-----------------------------------|-----|----|--|
| CO3,CO7 | Enlist prerequisites for conception Ch Sha 2/4 | СК | МК | K | L&G D | QZ ,TT-Theor y,VV-Viva | F&S | Π | |
| CO3,CO7 | Summarize the factors affecting conception, foetus Cha Sha 2/6-12 | СК | DK | К | L&G D | QZ ,TT-Theor y,VV-Viva | F&S | Π | |
| CO2,CO7 | Enlist shodasa dhatu (16 factors) in the formation of fetus Ch Sha 2/32,33 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Π | |
| CO3,CO7 | Outline features of multiple pregnancies, dwireta (hermaphroditism) and other types of sexual abnormalities Ca sh 2/12-14, 18-21 | СК | DK | К | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO7 | Explain lakshanas of sadyogruhit garbhini lakshana. Ca Sha 2/23-27 | СК | DK | K | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO7 | Explain ativahika purusha (factors carrying from previous birth to next birth). Ca Sha 2/31-32 | СК | МК | К | L&G D,IBL | CR-W,TT-The ory,VV-Viva | F&S | II | |
| CO3,CO7 | Differentiate daivakara and purushaakara Ca Sha 2/44. | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO7,CO 8 | Explain niroga lakshana. Ca sha 1/46-47 | СК | DK | К | L&G D,CB L | CHK,TT-Theo ry,VV-Viva | F | II | |
| CO1,CO2 | Recite sutras Cha.Sha.2/26, 27, 35,44,45-47 | СК | МК | К | SDL, REC | P-REC,TT- Theory | F&S | II | |
| CO1,CO2 | Summarize thechapter based on Ca Sha 2/48 | СК | NK | К | SDL | T-OBT,VV- Viva | F&S | II | |

| Topic 37 Cha | .Sha.03-Khuddika garbhavakranti Adhyaya (Lecture :1 h | ours, No | on lecture: 0 hou | rs) | | | | | |
|-----------------|---|----------|-------------------|-----|-------------|-----------------------------------|-----|----|--|
| CO1,CO2 | Justify the position of the chapter in the Shareerasthana and its importance | СК | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | II | |
| CO2 | Explain basic meaning and importance of key terms such as matrija, pitrija, sattvaja, satmyaja, rasaja, atmaja bhavas, beeja and beejabhaga | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | II | |
| CO3,CO7 | Enlist factors responsible for the formation, growth of the embryo Cha Sha 3/3 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO1,CO3,CO 7 | Outline the sambhasha parishat on garbha utpatti (formation of embryo) and factors contributed from different agents like satva, satmya etc. Ch Sha 3/4 | СК | DK | K | L&G D | PRN,DEB | F&S | II | |
| CO3,CO7 | Explain matruja, pitruja, atmaja, satmyaja, rasaja, satvaja bhavas of garbha Ch Sha 3/6-14 | СК | DK | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO2,CO3,CO 7 | Explain role of beeja-beejabhaga dushti in congenital abnormalities Ch Sha 3/17 | CAP | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO2 | Recite sutras no Ch Sha 3/17 | СК | МК | К | SDL, REC | P-REC,TT- Theory | F&S | II | |
| CO1 | Summarize the chapter based on sutra Ch Sha 3/26-27. | СК | NK | К | SDL | T-OBT,VV- Viva | F&S | Π | |
| Topic 38 Cha | Sha.04-Mahatee garbhavakranti Adhyaya (Lecture :1 hou | ırs, Non | lecture: 2 hours | 5) | | | | 1 | |
| CO1,CO2 | Justify the position of the chapter in the Shareerasthana and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | Π | |
| CO2 | Explain basic meaning and importance of key terms such as garbhopaghatakar bhava, manas prakriti. | СК | МК | К | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | II | |

| CO3,CO7 | Define garbha Ch. Sha 4/5 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | II | |
|---------|---|-------------|----|----|---------------------------|---------------------------|-----|----|--|
| CO3,CO7 | Enlist components of shad dhatvaatmak purush Ca Sh 4/6 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO7 | Explain functions of atma in the formation of garbha. Ch sha 4/8 | СК | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO7 | Outline maasanumasik garbha poshana Ch Sha 4/9-11,20-24 | СК | DK | К | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO7 | Explain garbhopaghatakara bhavas. Ch Sh 4/18 | CC | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO3,CO7 | Summarize the causes of congenital abnormalities Ch Sha 4/30-32 | СК | МК | К | L&G D | P-POS,TT- Theory | F&S | II | |
| CO3,CO7 | Explain qualities of satva-raja-tama. Cha Sh 4/36 | СК | МК | КН | L&G D | QZ ,TT-Theor y,VV-Viva | F&S | II | |
| CO3,CO7 | Outline features of shodash manasa prakritis (sixteen types of mental constitution). Ch Sha 4/36-40 | СК | DK | КН | L&G D,L_ VC,C BL | PM,TT-Theor y,VV-Viva | F&S | II | |
| CO3,CO6 | Identify some important features of manasaprakriti in individuals (also see activity list) | PSY- SET | NK | SH | CBL, RP,D | P-RP,VV- Viva | F | II | |
| CO1,CO2 | Recite sutras Ch Sha 4/6,36 | СК | МК | К | SDL, REC | P-REC,TT- Theory | F&S | II | |
| CO1,CO2 | Summarize the chapter as per sutras given at the end of the chapter Ca Sha 4/42-45. | СК | NK | К | SDL | T-OBT,VV- Viva | F&S | II | |

| CO1,CO2 | Justify the position of the chapter in the Samhita | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | II |
|-----------------|--|----------|--------|----|----------------|-----------------------------------|-----|-------|
| CO2 | Explain the basic meaning and importance of key terms in the chapter such as lokapurushasamyata, hetwadi panchaka and satya buddhi | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | П |
| CO2,CO4,CO 7 | Define loka purusha samya siddhanta Ch Sh. 4/13; 5/3 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | П |
| CO2,CO4 | Illustrate loka -purusha samya siddhanta with examples Ch Sha 5/5 | CAP | DK | КН | DIS,B S,PER | TT-Theory,V V-Viva | F&S | П |
| CO2,CO7 | Define and describe satyabuddhi Ch Sh.5/7,16-19 | CC | МК | K | L&G D | TT-Theory,V V-Viva | F&S | П |
| CO2,CO4 | Enlist and describe hetvadi panchaka Ch Sh.5/8 | СК | DK | K | L&G D | TT-Theory,V V-Viva | F&S | П |
| CO4,CO7 | Illsutrate pravritti-nivritti upaya (see activity list) | CAP | DK | KH | D | P-PS,TT-Theo ry,VV-Viva | F | Π |
| CO1,CO2 | Recite sutras Ch Sha 5/ 3, 5, 8,16 | СК | МК | K | SDL, REC | P-REC,TT- Theory | F&S | П |
| CO1,CO2 | Summarize thechapter as per sutra Ch Sh 5/25,26 | СК | NK | K | SDL | T-OBT,VV- Viva | F&S | II |
| Topic 40 Cha | a.Sha.06-Sareeravichaya adhyaya (Lecture :1 hours, Non lect | ure: 2 ł | iours) | · | - | | | · · · |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | Ш |
| CO2 | Explain the basic meaning and importance of key terms in the | CK | MK | K | L&G | QZ ,COM,TT- | F&S | II |

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Topic 39 Cha.Sha.05-Purushavichaya Shareera Adhyaya (Lecture :1 hours, Non lecture: 4 hours)

| | chapter such as vriddhikara bhava, kala kaala mrityu and param ayu | | | | D,BS | Theory,VV- Viva | | | |
|---------|--|-----|----|----|---------------------|-----------------------|-----|----|--|
| CO2 | Define shareera Ch. Sh.6/4 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Π | |
| CO2,CO4 | Apply samanya visesha siddhanta in shareera Ch.Sh.6/11 | CAP | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | Π | |
| CO2 | Describe shareera vruddhikara bhava Ch.Sh.6/12 | СК | MK | K | L&G D | TT-Theory,V V-Viva | F&S | Π | |
| CO2 | Describe bala vruddhikara bhava Ch.Sh.6/13 | СК | MK | K | L&G D | TT-Theory,V V-Viva | F&S | Π | |
| CO2 | Explain ahara parinamakara bhava Ch.Sh.6/14,15 | СК | MK | K | L&G D | TT-Theory,V V-Viva | F&S | Π | |
| CO2,CO7 | Classify shareera-gunas into malarupa and prasadarupa Ch.Sh6/16,17 | СК | MK | K | L&G D | TT-Theory,V V-Viva | F&S | Π | |
| CO2 | Explain the concept of kala and Akala Mrithyu Ch.Sh 6/28 | СК | DK | K | L&G D | TT-Theory,V V-Viva | F&S | Π | |
| CO2,CO7 | Define parama ayu karanam Ch.Sh 6/30 | СК | DK | K | L&G D | TT-Theory,V V-Viva | F&S | Π | |
| C07 | Analyse data related to akala-mrityu (see activity list) | CAP | DK | КН | DIS,I BL,E DU | M-CHT | F | II | |
| C01,C02 | Recite the sutra Ch Sha 6/4, 5-11, 12,13, 17, 28, 30 | СК | МК | К | SDL, REC | P-REC,TT- Theory | F&S | Π | |
| CO1,CO2 | Summarize the chapter as per sutra Ch Sh 6/31-34 | СК | NK | K | SDL | T-OBT,VV- Viva | F&S | Π | |

| Topic 41 Cha | a.Sha.07- Sareerasankhya sareera Adhyaya (Lecture :1 hou | urs, Non | lecture: 2 hou | urs) | | | | | |
|-----------------|--|-------------|----------------|------|--------------|-----------------------------------|-----|----|------|
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | К | L&G D | INT,TT-Theor y,VV-Viva | F&S | II | |
| CO2 | Explain the basic meaning and importance of key terms in the chapter such as chetanaadishtana, pranayathana, koshtanga, pratyanga, anjali pramana etc. | CK | MK | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | II | |
| CO2,CO3,CO 7 | Explain paramanu bheda shariram Ch Sha 7/17 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | II | |
| CO1,CO2 | Recite sutra Ch Sha 7/17 | СК | МК | K | SDL, REC | P-REC,TT- Theory | F&S | II | |
| C01,C02 | Summarize the chapter as per sutra Ch Sha 7/19, 20 | СК | NK | К | SDL | T-OBT | F&S | II | |
| Topic 42 Cha | a.Sha.08-Jathisutreeya Adhyaya (Lecture :1 hours, Non lect | ure: 12 h | iours) | | | | | | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | К | L&G D | INT,TT-Theor y,VV-Viva | F&S | II | |
| CO2 | Explain basic meaning and importance of key terms in the chapter such as jathi, pumsavana, sutikagara etc | СК | MK | К | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | II | |
| CO2 | Enlist garbha upaghatakara bhava Ch.Su 8/21 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | Π | |
| CO2 | Describe the infrastructure of a sutikagaram Ch. Su 8/33 | СК | NK | К | PrBL, SDL | M-MOD,TT- Theory | F&S | II | V-BL |
| CO3,CO8 | Demonstrate garbhopghatakarabhava through skit (see activity list) | PSY- SET | DK | КН | ML,R P | QZ ,CHK,VV- Viva | F | Π | |
| C01,C02 | Summarize the chapter as per the sutra Ch Sha 8/68,69 | СК | NK | К | SDL | T-OBT,VV- | F&S | Π | |

| | | | | | | Viva | | |
|------------|--|----------|---------------|----|------------------|-----------------------------------|-----|-----|
| Topic 43 C | ha.In.1-Varnasvariyam Indriya Adhyaya (Lecture :1 hours, N | Non lect | ure: 1 hours) | | • | | • | • |
| CO1,CO2 | Describe sthana adhikarana (objectives) of Indriyasthana | CK | МК | КН | L&G D | INT,TT-Theor y,VV-Viva | F&S | III |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | КН | L&G D | INT,TT-Theor y,VV-Viva | F&S | III |
| CO2 | Explain basic meaning and importance of key terms such as arishta, vikritibheda, varna, swara etc. related to rishta | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | III |
| CO2,CO6 | Enlist factors for assessing rishta Ref: Ch. In 1/3 | CK | МК | К | L&G D,BL | TT-Theory,V V-Viva | F&S | III |
| CO2,CO6 | Enlist six types of prakruti bheda. Ch In 1/5 | СК | МК | K | L&G D,ED U | TT-Theory,V V-Viva | F&S | III |
| CO2,CO6 | Enist vikritibheda (types of vikriti) in the context of rishta Ch In 1/6,7, 17-23 | CK | МК | К | L&G D | TT-Theory,V V-Viva | F&S | III |
| CO2,CO6 | Explain prakruta and vaikarika varna Ch In 1/8,9 | CK | МК | К | L&G D,ML | TT-Theory,V V-Viva | F&S | III |
| CO2,CO6 | Summarize varnavishayak arishta (rishta related to varna) Ch In 1/9-13 | CC | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | III |
| CO2,CO6 | Explain prakruta and vaikarika swara (normal and abnormal voices) Ch In 1/14 | СК | МК | К | L&G D,ED U | QZ ,TT-Theor y,VV-Viva | F&S | III |
| CO2,CO6 | Summarize swara vishayak arishta (arishta related to voice) Ch In 1/15,24,25 | CC | DK | KH | L&G D | TT-Theory,V V-Viva | F&S | III |

| CO1,CO2 | Summarize the chapter Ch In 1/26 | CC | NK | KH | SDL | T-OBT,VV- Viva | F&S | III | |
|-----------------|---|----------|------------------|------|-------------|-----------------------------------|-----|-----|----------|
| Topic 44 Cha | a.In.2-Pushpitakam Indriya Adhyaya (Lecture :1 hours, Non | lecture | e: 0 hours) | | | | • | 1 | <u> </u> |
| CO1,CO2 | Justify the position of the chapter in the sequence | CK | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO2 | Explain basic meaning and importance of key terms such as niyatarishta, aniyatarishta | СК | МК | K | L&G D,BS | QZ ,COM,TT- Theory,VV- Viva | F&S | III | |
| CO6 | Outline gandhavishayak arishta (prognistic signs identified through smell) Ch In 2/7-16 | СК | DK | K | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO3,CO 6 | Summarize rasavishayak arishta (progostic signs related to taste) Ch In 2/17-22 | СК | DK | K | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO1,CO2 | Summarise the chapter Ch In 3/23 | CK | NK | K | SDL | T-OBT,VV- Viva | F&S | III | |
| Topic 45 Cha | a.In.3-Parimarshaneeyam Indriyam Adhyaya (Lecture :1 ho | ours, No | on lecture: 0 ho | urs) | • | | • | | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO2,CO6 | Enlist Sparshagamya bhava (palpable signs) in arishta Ch In 3/4 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO6 | Explain Sparshavishayak Arishta lakshna (based\on palpation)) Ch In 3/5,6 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO1,CO2 | Summarise the chapter as per the sutras given at the end of the chapter Ch In 3/7 | СК | NK | K | SDL | T-OBT,VV- Viva | F&S | III | |
| Topic 46 Cha | a.In.4-Indriyaneekam Indriya adhyaya (Lecture :1 hours, No | on lectu | re: 0 hours) | | | | 1 | 1 | <u>.</u> |

| | | | 1 | | | 1 | 1 | | |
|-----------------|--|--------|------------------|--------|-------------|---------------------------|-----|----------|--|
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | СК | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F | III | |
| CO2,CO6 | Explain indriya vishayaka arishta samanya niyama (general rule regarding involvement of indriya) Ch In 4/3-6 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO1,CO2 | Summarise the chapter as per the sutras given at the end of the chapter Ch In 4/27 | СК | NK | K | SDL | T-OBT,VV- Viva | F&S | III | |
| Topic 47 Cha | .In.5-Purvarupeeyam Indriyam Adhyaya (Lecture :1 hours, | Non le | ecture: 2 hours) | | | | | I | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and its importance | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO2,CO6 | Enlist jvara rupa vishayaka poorvaroopiya rishta (rishta based on purvarupa of jvara) Ch In 5/3-5 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO3,CO 4 | Define swapna Ch In 5/41-42 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO6 | Enlist and explain swapna bheda (types of swapna) Ch In 5/43 | CC | МК | КН | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO1,CO2 | Recite sutra Ch In 5/41-43 | СК | МК | K | SDL, REC | P-REC,TT- Theory | F&S | III | |
| CO1,CO2 | Summarise the chapter as per sutra Ch In 5/47 | СК | NK | K | SDL | T-OBT,VV- Viva | F&S | III | |
| Topic 48 Cha | .In.6-Katamanisharireeyam Indriyam Adhyaya (Lecture :1 | hours, | Non lecture: 0 h | nours) | | | | | |
| CO1,CO2 | Justify the position of the chapter in the Samhita and explain basic meaning and importance of key terms in the chapter | СК | МК | К | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO2,CO3,CO 6 | Outline arishta related to pureesha, mutra and swayathu Ch In 6/11-19 | CC | DK | K | L&G D | TT-Theory,V V-Viva | F&S | III | |
| , | | | | | | | | - | |

| CO1,CO2 | Summarise the chapter as per sutras given at the end of the chapter Ch In 6/25 | СК | NK | K | SDL | T-OBT,VV- Viva | F&S | III |
|-----------------|--|---------|-----------------|----|----------|---------------------------|-----|-----|
| Topic 49 Cha | a.In.7-Pannarupiyam Indriyam Adhyaya (Lecture :1 hours, | Non lec | cture: 0 hours) | | | | - | |
| CO1,CO2 | Justify the position of the chapter in the Samhita | СК | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | III |
| CO2,CO3,CO 6 | Explain basic meaning and importance of chaya, pratichaya and prabha | CC | МК | K | L&G D | TT-Theory,V V-Viva | F&S | III |
| CO2,CO6 | Explain pratichaya vishayaka arishta. Ch In 7/4-6 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | III |
| CO2,CO6 | Explain chaya vikruti arishtas. Ch In 7/4-6 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | III |
| CO2,CO6 | Enlist five types chaya Ch In 7/10-13 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | Ш |
| CO2,CO6 | Enlist seven types of prabha Ch In 7/14-15 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | III |
| CO2,CO3,CO 6 | Differentiate chaya and prabha Ch In 7/16-17 | CC | МК | K | L_VC | TT-Theory,V V-Viva | F&S | III |
| CO1,CO2 | Summarise the chapter Ch In 7/32 | СК | NK | K | SDL | T-OBT,VV- Viva | F&S | III |
| Topic 50 Cha | a.In.8-Avakshiraseeyam Indriyam Adhyaya (Lecture :1 hou | rs, Non | lecture: 0 hour | s) | | | | |
| CO1,CO2 | Justify position of the chapter in Samhita | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | III |
| CO1,CO2 | Summarise the chapter as per sutra given at the end of the chapter | СК | NK | K | SDL | T-OBT,VV- Viva | F&S | III |

| Topic 51 Cha | a.In.9-Yasya shyavanimittiya Indriya Adhyaya (Lecture :1 | hours, l | Non lecture: 0 h | ours) | | | | | |
|-----------------|---|-----------|------------------|-------|----------|---------------------------|-----|-----|--|
| CO1 | Justify position of the chapter in Samhita | СК | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO2 | Explain basic meaning and importance of key terms such as ashtamaharoga | CC | МК | К | L | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO4,CO 6 | Enlist ashtamaharogas Ch In 9/8-9 | CC | МК | K | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO1,CO2 | Summarise the chapter as per the sutra given at the end of the chapter Ch In 9/23,24 | СК | NK | К | SDL | T-OBT,VV- Viva | F&S | III | |
| Topic 52 Cha | a.In.10-Sadyomaraneeyam Indriya Adhyaya (Lecture :1 hou | urs, Nor | lecture: 0 hour | s) | • | • | | | |
| CO1,CO2 | Justify poisition of the chapter and key terms in the chapter | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO2,CO6 | Explain sadyomaraneeya arishtas Ch In 10/3-20 | СК | МК | К | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO1,CO2 | Summarise the chapter as per the sutras given at the end of the chapter Ch In $10/21$ | СК | NK | K | SDL | T-OBT,VV- Viva | F&S | III | |
| Topic 53 Cha | a.In.11-Anujyotiyam Indriya Adhyaya (Lecture :1 hours, No | on lectur | e: 0 hours) | • | • | • | • | | |
| CO1,CO2 | Justify the position of the chpater and explain key terms such as arishta Ch In 11/29 | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO2,CO6 | Define arishta Ch In 11/29 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO1,CO2 | Recite sutra Ch In 11/29 | СК | МК | K | SDL | P-VIVA,TT- Theory | F&S | III | |

| Topic 54 Cl | na.In.12-Gomayachurniyam Indriya Adhyaya (Lecture :1 ho | urs, Nor | n lecture: 17 hou | rs) | | | | | |
|-------------|--|----------|-------------------|-----|----------|---------------------------|-----|-----|--|
| CO1,CO2 | Justify the posttion of the chapter and explain key terms such as mumurshu, prasasta duta and mangalika dravya | CC | МК | K | L&G D | INT,TT-Theor y,VV-Viva | F&S | III | |
| CO2,CO6 | Summarize mumurshu lakshana Ch In 12/9-25 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO6 | Outline prashasta doota lakshana and mangalika dravya Ch In 12/71-80 | СК | МК | K | L&G D | TT-Theory,V V-Viva | F&S | III | |
| CO2,CO4 | Define arogya in the context of arishta Ch In 12/87 | CC | МК | К | L&G D | TT-Theory,V V-Viva | F&S | III | |
| C01,C02 | Summarise the chapter as per sutra given at the end of the chapter Ch In 12/89 | СК | NK | К | SDL | T-OBT,VV- Viva | F&S | III | |

| | PRACTICALS (As a part of NLH) | - | |
|------|--|------|-------|
| S.No | List of Topics | Term | Hours |
| 1 | SHLOKA PATHANA- 1 | 1 | 10 |
| 2 | LEARNING THROUGH VYAKHYANA-1 | 1 | 3 |
| 3 | OBSERVING THE PRACTICAL UTILITY OF SNEHANA AND SWEDANA | 1 | 2 |
| 4 | IDENTIFICATION OF BAHUDOSHA LAKSHANA IN PATIENTS | 1 | 2 |
| 5 | ASSESSMENT OF DISEASES BASED ON TRIVIDHA BODHYA SANGRAHA | 1 | 2 |
| 6 | IDENTIFICTION OF ASHTA DOSHA IN STHOULYA | 1 | 2 |
| 7 | CLINICAL OBSERVATIONS ON NIJA AGANTUJA RELATIONSHIP | 1 | 2 |
| 8 | CLINICAL OBSERVATION ON SHADUPAKRAMA | 1 | 2 |
| 9 | ASSESSMENT OF RAKTA DUSHTI KARANA IN SPECIFIC CLINICAL CONDITIONS | 1 | 2 |
| 10 | OBSERVATIONS ON USE OF AGRYA AUSHADHA IN CLINICAL PRACTICE | 1 | 2 |
| 11 | ASSESSMENT OF DHATU-UPADHATU-MALA PRADOSHAJA VIKARAS IN PATIENTS | 1 | 3 |
| 12 | SHLOKA PATHANA- 2 | 2 | 10 |
| 13 | LEARNING THROUGH VYAKHYANA-2 | 2 | 3 |
| 14 | CASE TAKING IN RELATION TO NIDANA PANCHAKA | 2 | 12 |
| 15 | DIFFERENTIAL DIAGNOSIS OF SKIN DISEASES BASED ON GUIDELINES ON KUSHTA | 2 | 2 |
| 16 | PRAMANA PARIKSHA | 2 | 2 |
| 17 | IDENTIFICATION OF VIKARAVIGHATA BHAVA ABHAVA IN PATIENTS | 2 | 2 |
| 18 | EXPLORATION OF LOKA PURUSHA SAMYA VADA IN THE BACK GROUND OF ONE HEALTH | 2 | 2 |
| 19 | SHLOKA PATHANA-3 | 3 | 10 |
| 20 | LEARNING THROUGH VYAKHYANA-3 | 3 | 3 |
| 21 | LEARNING THROUGH SAMBHASHA PARISHAD | 3 | 6 |
| 22 | SROTAS PROFORMA | 3 | 2 |

| 23 | LEARNING THROUGH TANTRA YUKTI | 3 | 5 |
|----|---|---|---|
| 24 | ASSESSMENT OF HEALTH THROUGH DHATU SAMYA PAREEKSHA | 3 | 2 |
| 25 | AGNI ASSESSMENT BASED ON APACHARA | 3 | 2 |
| 26 | TRIVIDHA ROGA VISHESHAVIJNANA IN DIAGNOSIS | 3 | 3 |
| 27 | ASSESSMENT OF UPASAYA AND ANUPASAYA IN PATIENTS | 3 | 2 |

Table 4: Learning objectives (Practical)

| A4 | B4 | C4 | D4 | E4 | F4 | G4 | H4 | I4 | K4 |
|-------------------|---|----------------|--|-------------------------------------|----------------------|--------------------------|---------------------------------|------|-----------------|
| Course outcome | Learning Objective (At the end of the session, the students should be able to) | Doma in/sub | Must to know / desirable to know / Nice to know | Level Does/ Show s how/ | T-L meth od | Assessment | Form ative/ summ ative | Term | Integr ation |
| | | | | Know s how/ Know | | abbreviations) | | | |
| Topic 1 SHL | OKA PATHANA- 1 | | | - | | | | | |
| CO1,CO2 | Recite the selected slokas in each chapter | СК | МК | K | REC | PP-Practical,V V-Viva | F&S | Ι | |
| CO1,CO2 | Compile slokas selected for recitation | СК | МК | K | SDL | PP-Practical,V V-Viva | F&S | I | |
| Topic 2 LEA | RNING THROUGH VYAKHYANA-1 | · | | | • | · | • | | |
| CO1,CO2 | Interpret selected sutras with the help of Ayurveda Deepika Vyakhyana of Carakasamhita | CC | МК | КН | L&G D,DIS ,TBL | PP-Practical,V V-Viva | F&S | Ι | |
| CO1,CO2 | Prepare narrative summary of vyakhyana for the specified sutras | CAP | МК | КН | SDL | PP-Practical,V V-Viva | F&S | I | |
| CO1,CO2 | Appreciate importance of Vyakhyana in learning Samhita | AFT- REC | МК | КН | D | P-VIVA | F&S | Ι | |
| Topic 3 OBS | ERVING THE PRACTICAL UTILITY OF SNEHANA AN | ID SWI | EDANA | | | | | | |
| CO4,CO5 | Identify and compile experiences of people undergoing sneha- | CAP | МК | KH | SDL, | PP-Practical | F&S | Ι | V-PC |

| | sweda | | | | RLE | | | |
|---------------------|--|-------------|--------|----|-------------------|--------------------------|-----|-----|
| Topic 4 IDEN | NTIFICATION OF BAHUDOSHA LAKSHANA IN PATI | ENTS | | • | | | | 1 1 |
| CO3,CO4,CO 6,CO7 | Assess Bahudoshalakshana in patients | PSY- SET | МК | SH | CBL, PT | PP-Practical,V V-Viva | F&S | Ι |
| CO3,CO4,CO 6,CO7 | Appreciate the role and importance of assessing bahudosha lakshana in clinical practice | AFT- REC | МК | SH | CBL, PRA | PP-Practical,V V-Viva | F&S | Ι |
| Topic 5 ASSI | ESSMENT OF DISEASES BASED ON TRIVIDHA BODH | IYA SAI | NGRAHA | | | | | |
| CO3,CO4,CO 6,CO7 | Assess diseases based on trividha-bodhya-sangraha ie. vikaraprakriti(nature of disease), samuthana (causative factors) and adhishthana (site of disease) | PSY- SET | МК | SH | CBL, PRA | PP-Practical,V V-Viva | F&S | Ι |
| CO3,CO4,CO 6,CO7 | Appreciate role and importance of trividhabodhyasangraha in clinical practice | AFT- REC | МК | SH | CBL, PRA | PP-Practical,V V-Viva | F&S | Ι |
| Topic 6 IDEN | NTIFICTION OF ASHTA DOSHA IN STHOULYA | | | | | | | |
| CO3,CO4,CO 6,CO7 | Assess ashtadosha of atisthoulya in subjects | PSY- SET | МК | SH | CBL, D | TT-Theory,V V-Viva | F&S | Ι |
| CO3,CO4,CO 6,CO7 | Maintain good communication skills with patients | AFT- RES | МК | SH | CBL, D,PR A | TT-Theory,V V-Viva | F&S | Ι |
| Topic 7 CLIN | NICAL OBSERVATIONS ON NIJA AGANTUJA RELAT | IONSH | IP | | • | | | |
| CO3,CO4,CO 6,CO8 | Identify realtionship bewteen nija and agantu in clinical conditions | PSY- SET | МК | SH | CBL, PT,D | PP-Practical,V V-Viva | F&S | Ι |
| CO4,CO8 | Develop good rapport with patients | AFT- VAL | МК | SH | CBL, PT,D | P-VIVA,VV- Viva | F&S | Ι |

| CO3,CO4,CO 5,CO8 | Identify shadupakrama in treatment plans of different diseases | PSY- SET | МК | SH | CBL, PT,D | PP-Practical,V V-Viva | F&S | Ι | |
|---------------------|---|-------------|-------------|-------|----------------------|--------------------------|-----|---|--|
| CO5,CO8 | Develop good communications skills in clinics | AFT- REC | МК | SH | CBL, PT,D | PP-Practical,V V-Viva | F&S | Ι | |
| Topic 9 ASS | ESSMENT OF RAKTA DUSHTI KARANA IN SPECIFIC | CLINI | CAL CONDIT | IONS | | | • | | |
| CO3,CO4,CO 6,CO7 | Identify raktadushti karanas in patients affected by raktadushti, especially, skin diseases | PSY- SET | МК | SH | CBL, D,PR A | PP-Practical,V V-Viva | F&S | Ι | |
| CO3,CO4,CO 6,CO7 | Develop good communication skills with patients | AFT- REC | МК | SH | CBL, D,PR A | PP-Practical,V V-Viva | F&S | Ι | |
| Topic 10 OB | SERVATIONS ON USE OF AGRYA AUSHADHA IN CL | INICAL | PRACTICE | | - | | | | |
| CO1,CO4,CO 5 | Justify use of agraushadhas in common clinical conditions | PSY- MEC | МК | SH | PER | P-VIVA | F&S | Ι | |
| CO8 | Develop good comunication skills | AFT- REC | МК | SH | DIS,P ER | P-VIVA | F&S | Ι | |
| Topic 11 ASS | SESSMENT OF DHATU-UPADHATU-MALA PRADOSH | AJA VI | KARAS IN PA | TIENT | 'S | • | | | |
| CO3,CO4,CO 6,CO7 | Identify dhatu-mala-upadahtu pradoshaja vikaras in patients | PSY- SET | МК | SH | CBL, PT,D_ BED | P-EXAM,VV- Viva | F&S | Ι | |
| CO3,CO4,CO 8 | Develop rapport with patients | AFT- REC | МК | SH | CBL, D_BE D | P-VIVA,VV- Viva | F&S | Ι | |

| Topic 12 SH | LOKA PATHANA- 2 | | | | | | | |
|---------------------|---|-------------|----|----|----------------------|------------------|-----|-----|
| CO2 | | СК | MK | K | REC | P-VIVA | F&S | II |
| | Recite the selected slokas in each chapter | | | | | | | |
| CO2 | Compile slokas selected for recitation | СК | МК | К | TBL, SDL | P-VIVA | F&S | II |
| Topic 13 LE | ARNING THROUGH VYAKHYANA-2 | · | | | • | • | • | |
| CO2 | Interpret selected sutras with the help of Ayurveda Deepika Vyakhyana of Carakasamhita | CAP | MK | КН | L&G D,DIS ,TBL | P-VIVA | F&S | п |
| CO2 | Prepare narrative summary of vyakhyana for the specified sutras | САР | МК | КН | DIS,S DL | P-VIVA | F&S | II |
| CO1,CO2 | Appreciate importance of Vyakhyana in learning Samhita | AFT- REC | МК | КН | D | P-VIVA | F&S | II |
| Topic 14 CA | SE TAKING IN RELATION TO NIDANA PANCHAKA | | | | - | • | - | |
| CO3,CO4,CO 6,CO7 | Perform case taking based on nidana-panchaka | PSY- SET | МК | SH | CBL, D_BE D | P-VIVA | F&S | П |
| CO8 | Develop rapport with patients | AFT- REC | МК | SH | CBL, D_BE D | T-EMI,P- VIVA | F&S | II |
| CO6,CO8 | Develop clinical skills based on Ayurvedic clinical methods | PSY- SET | МК | SH | CBL, D_BE | PP-Practical | F&S | III |

| | | | | | D | | | | |
|-------------------------|---|-------------|-------------|----------|---------------------|--------------|-----|----------|--|
| Topic 15 DIF | FERENTIAL DIAGNOSIS OF SKIN DISEASES BASED | ON GU | IDELINES ON | KUSH | TA | | | 1 1 | |
| CO4,CO6,CO 8 | Assess skin diseases based on Ayurvedic parameters | PSY- SET | МК | SH | CBL, D_BE D | PP-Practical | F&S | Π | |
| CO6,CO8 | Develop skills based on Ayurvedic clinical methods | AFT- REC | МК | SH | D_BE D | PP-Practical | F&S | II | |
| Topic 16 PRA | AMANA PARIKSHA | | | | | | 1 | | |
| CO3,CO4,CO 6,CO7 | Assess physiometry based on pramana-pareeksha mentioned in Ayurveda | PSY- SET | МК | SH | D | VV-Viva | F&S | II | |
| CO8 | Appreciate importance of Ayurvedic methods of measurements | AFT- REC | МК | SH | D | VV-Viva | F&S | II | |
| Topic 17 IDE | NTIFICATION OF VIKARAVIGHATA BHAVA ABHAV | A IN P | ATIENTS | • | | 1 | • | <u> </u> | |
| CO2,CO3,CO 4,CO6,CO7 | Apply the conccept of "vikaravisatabhavabhavapractivisesha" in understanding diseases | CAP | МК | КН | CBL, CD | P-VIVA | F&S | II | |
| CO6 | Perform case taking based on the concept of vikaravighata bhava abhava | PSY- SET | МК | SH | CD,D | P-VIVA | F&S | II | |
| Topic 18 EXI | PLORATION OF LOKA PURUSHA SAMYA VADA IN T | HE BA | CK GROUND | OF ON | E HEA | LTH | | | |
| CO4,CO7,CO 8 | Apply lokapurusha-samya-sidhanta in contemporary life | CAP | МК | КН | DIS,B S,PrB L | VV-Viva | F&S | II | |
| Topic 19 SHI | LOKA PATHANA-3 | • | | I | | 1 | | <u> </u> | |
| CO1,CO2 | Recite the selected slokas in each chapter | СК | МК | К | REC | VV-Viva | F&S | III | |

| CO1,CO2 | Compile slokas selected for recitation | СК | MK | K | SDL | VV-Viva | F&S | III | |
|-----------------|---|-------------|----|----|-------------|--------------------|-----|-----|--|
| Topic 20 LEA | ARNING THROUGH VYAKHYANA-3 | | | | | | | | |
| C01,C02 | Interpret selected sutras with the help of Ayurveda Deepika Vyakhyana of Carakasamhita | CAP | MK | КН | L,LS | VV-Viva | F&S | III | |
| C01,C02 | Prepare narrative summary of vyakhyana for the specified sutras | CC | MK | КН | SDL | VV-Viva | F&S | III | |
| CO1,CO2 | Appreciate importance of Vyakhyana in learning Samhita | AFT- REC | МК | КН | D | P-VIVA | F&S | III | |
| Topic 21 LEA | ARNING THROUGH SAMBHASHA PARISHAD | | | | | | | | |
| C01,C02 | Demonstrate Sambhasha parishat to discuss different topics | PSY- ADT | МК | SH | D | P-VIVA | F&S | III | |
| CO8 | Appreciate the importance of collective thinking in learning Ayurveda | AFT- VAL | МК | SH | DIS,D | P-VIVA | F&S | III | |
| Topic 22 SRC | DTAS PROFORMA | | | | | | - | - | |
| CO4,CO6,CO 8 | Assess involvement of srotas in clinical conditions | PSY- SET | МК | SH | D_BE D | VV-Viva | F&S | III | |
| CO8 | Develop clinical skills based on Ayurvedic clinical methods | AFT- REC | МК | SH | D_BE D | VV-Viva | F&S | III | |
| Topic 23 LEA | ARNING THROUGH TANTRA YUKTI | | | | | | | | |
| CO1,CO2,CO 4 | Apply tantrayukti and interpret the sutras | CAP | МК | КН | TBL, D | P-VIVA | F&S | III | |
| CO1 | Appreciate the importance of Tantrayukti in interpreting Samhita | CAP | МК | КН | DIS,T BL | P-VIVA,VV- Viva | F&S | III | |

| Topic 24 ASS | SESSMENT OF HEALTH THROUGH DHATU SAMYA I | AREE | KSHA | | | | | | |
|-----------------|---|-------------|------|----|-------------------|--------------------|-----|-----|--|
| CO3,CO4,CO 6 | Assess health of a person based through dhatu-samya-pareeksha | PSY- SET | МК | SH | CBL, D_BE D | P-VIVA | F&S | III | |
| CO8 | Appreciate health of a person through interaction | AFT- RES | МК | SH | D_BE D | P-VIVA,VV- Viva | F&S | III | |
| Topic 25 AG | NI ASSESSMENT BASED ON APACHARA | | | | | | | | |
| CO3,CO4,CO 7 | Assess agni based on apachara-visesha | PSY- SET | МК | SH | DIS,D _BED | P-VIVA | F&S | III | |
| CO8 | Develop good rapport with patients | AFT- REC | МК | SH | CBL, D_BE D | P-VIVA | F&S | III | |
| Topic 26 TRI | VIDHA ROGA VISHESHAVIJNANA IN DIAGNOSIS | | • | | | | | 1 1 | |
| CO4,CO6,CO 7 | Demonstrate trividha roga visesha vijnana in clinical methods | PSY- SET | МК | SH | DIS,C BL,D | P-VIVA | F&S | III | |
| CO8 | Appreciate the importance of Ayurvedic parameters in clinical methods | AFT- VAL | DK | SH | DIS,C BL,D | P-VIVA | F&S | III | |
| Topic 27 ASS | SESSMENT OF UPASAYA AND ANUPASAYA IN PATIE | NTS | | | • | | • | | |
| CO3,CO5,CO 6 | Identify upasaya-anupasaya in patients | PSY- SET | МК | SH | CBL, D_BE D | P-VIVA | F&S | III | |
| CO8 | Appreciate wellness of patients | AFT- REC | DK | SH | D_BE D | P-VIVA | F&S | III | |

Table 4a: List of Practical (As a part of NHL)

| S.No | Name of practical | Term | Activity | Practical hrs |
|-------------|-------------------------------------|----------------|--|---------------------|
| S.No | Name of practical SHLOKA PATHANA- 1 | Term 1 | Purpose: To by heart sutras selected from Charakasamhita Teacher's role: Teachers should instruct the students to by heart the slokas when the respective portions are over. A log book may be kept by the teacher to mark the date and signature to note the satisfactory recitation of the slokas by the students. The performance of students can be considered for formative assessment. During summative assessment, sloka recitation will be a part of practical examination. Students role: To by heart the selected slokas given below and to compile minimum 100 sutras (three terms) Sutras suggested: 1. Cha.Su.13- Sneha Adhyaya- 13-17, 22, 57-59 2. Cha.Su.14- Sveda Adhyaya- 4,5,39,40,64 3. Cha.Su.15- Upakalpaneeya Adhyaya - 22 4. Cha.Su.16- Chikitsaprabhritiya Adhyaya - 13-21,27,28,34-36 5. Cha.Su.18-Trisotheeya Adhyaya-42-43, 44-47 7. Cha.Su.19-Ashtodareeya Adhyaya-42-43, 44-47 7. Cha.Su.20- Maharoga adhyaya-3, 4, 5, 11,14, 17, 20-22 9. Cha.Su.21- Ashtauninditeeya adhyaya-3,4,16, 18, 19, 35, 50, 58 10. Cha.Su.23- Santarpaneeya Adhyaya-5-7, 26-29 | Practical hrs 10 |
| | | | 11. Cha.Su.23- Santarpaneeya Adhyaya- | |
| | | | 14. Cha.Su.26- Atreyabhadrakaapyeeya Adhyaya- 13,36,37,61,62,66,81,85,86 15. Cha.Su.27- Annapaanvidhi Adhyaya- 351-352 16. Cha.Su.28- Vividhaasheetapeetiya Adhyaya- 9-19,35-39, 45 | |

| • | | | | |
|---|---|---|---|---|
| 2 | LEARNING THROUGH VYAKHYANA-1 | | Purpose: To familiarize and expose the students to the relevant vyakhyana of Charaka Samhita. The following specific portions in the Vyakhyana are selected for this purpose. 1. Cha.Su.20- Maharoga adhyaya - 11,16,19 2. Cha.Su.26- Atreyabhadrakaapyeeya Adhyaya - 13,29 3. Cha.Su.28- Vividhaasheetapeetiya Adhyaya - 7 Teacher's role: Teachers will teach those sutras along with the commentary and explain the importance of vyakhyana in better understanding of sutras. Students' role: Students will prepare a narrative summary of all the proposed vyakhyanas to highlight their importance in interpreting the sutras. During viva students are asked to interpret the respective sutras along with its vyakhyana. | 3 |
| 3 | OBSERVING THE PRACTICAL UTILITY OF SNEHANA AND SWEDANA | 1 | Purpose: To familiarize commonly available snehayogas and commonly undertaken swedaprayogas. (Ref: Ch Su 13,14) Teacher's role: Make five or six groups and instruct them to enlist available ghruta and taila yoga in hospital pharmacy. Enlist the types of swedana followed in panchakarma theatre in the hospital. Student's role: Student in groups should document the assigned work in a prescribed format and present to all in the class. | 2 |
| 4 | IDENTIFICATION OF BAHUDOSHA LAKSHANA IN PATIENTS | 1 | Purpose: To assess bahudosha lakshana with the help of proforma in patients posted in hospital wards. (Ref: Ch Su 16/13-16) Teacher's role: Teacher should introduce the proforma in the class and guide the students how to furnish the proforma. Teacher may identify patients exhibiting bahudosha lakshana from the ward, those who are posted for Shodhana. Collect the | 2 |

| | | | proformas duly filled by students and analyze the data and discuss with students. Students' role: Student should interact with given patient and identify the Bahudosha lakshanas available in the patient and document in the proforma (minimum three cases). | |
|---|---|---|--|---|
| 5 | ASSESSMENT OF DISEASES BASED ON TRIVIDHA BODHYA SANGRAHA | 1 | Purpose: To orient students on the use of trividha-bodhya-sangraha (i.e, vikaraprakriti, adhishtana, samuthana) in understanding diseases and thereby enabling them using the unique assessment protocol mentioned in Caraka samhita. (Ref: Ch Su 18/44-47 along with Chakrapani commentary) Teacher's role: Introduce the concept of trividha bodhya sangraha, Introduce the case proforma in the class, demonstrate case taking based on trividha-bodhya- sangraha Students role: Fill up the observations in the proforma during their routine clinical posting (minimum 3 cases). | 2 |
| 6 | IDENTIFICTION OF ASHTA DOSHA IN STHOULYA | 1 | Purpose: To identify prevalence of ashtadosha of sthaulya in individuals (Ref: Ch Su 21/4) Teacher's role: Explain ashtadosha in the class; Introduce the questionnaire to document ashtadosha in individuals; Demonstrate the questionnaire in obese individuals Students role: Students will furnish the questionnaire among five people of different age groups and prepare a report based on the findings of the questionnaire survey. | 2 |
| 7 | CLINICAL OBSERVATIONS ON NIJA AGANTUJA RELATIONSHIP | 1 | Purpose: To explore relationship between nija and agantu diseases (Ref: Ch Su 19/7) Teacher's role: Teacher explains nija- agantu relationship with examples in the class; Demonstrate some cases where disease starts as agantu and advance to nija and vice versa. Students' role: Observe minimum three | 2 |

| | | | cases in OP/IP and make reports to establish the relationship between nija and agantu. | |
|----|---|---|--|---|
| 8 | CLINICAL OBSERVATION ON SHADUPAKRAMA | 1 | Purpose: To explore application of shadupakrama in therapeutics (Ref Ch Su 22) Teacher's role: After teaching shadupakrama, teachers shall identify some cases in the hospital to demonstrate any one or more upakramas; Try to include cases with varieties of upakrama; Train students to see patients, explore the case sheets and hospital records to find out upakramas adopted to a particular patient. Students' role: Observe minimum three cases from hospital and go through case sheets to identify types of upakrama adopte; Interact with interns, teachers to map the upakramas adopted in each patient; Make reports on type of upakrama, nature of medicines used and effects of upakramas based on the above observations; Document observations in three cases | 2 |
| 9 | ASSESSMENT OF RAKTA DUSHTI KARANA IN SPECIFIC CLINICAL CONDITIONS | 1 | Purpose: To identify raktadushtikaranas in cases where raktadushti is suspected (Ref: Ch Su 24/5-10) Teacher's role: Teach raktadushti karana; Select some cases where raktadushti is suspected; Demonstrate presence of raktadushti karanas in one or two cases; Assign cases to students to identify presence of raktadushtikarana Student's role: Identify presence of raktadushti karanas in three cases with the help of questionnaire provided; Document the observations | 2 |
| 10 | OBSERVATIONS ON USE OF AGRYA AUSHADHA IN CLINICAL PRACTICE | 1 | Purpose: To justify the importance of agryoushadha in clinical practice (Ref: Ch Su 25/38-40) Teacher's role: Identify some important agryoushadhas from the list given in Annapanachatushka; Divide the whole class into five or six groups and assign | 2 |

| | | | each group with two or three agrya aushadhas Students role: Make monographs of agryoushadha; Interact with practitioners and collect details of use of these aushadhas in routine practice; Document the observations in the record book. | |
|----|---|---|--|----|
| 11 | ASSESSMENT OF DHA TU-UPADHATU-MALA PRADOSHAJA VIKARAS IN PATIENTS | 1 | Purpose: To identify dhatu-upadhatu-mala pradoshaja vikaras in selected cases. (Ref Ch Su 27/9-22) Teacher's role: Demonstrate the proforma in a few cases. Students' role: Make five case sheets reporting the findings of the assessment. | 3 |
| 12 | SHLOKA PATHANA- 2 | 2 | See Practical.1 for instructions Sutras suggested: 1. Cha.Su.30- Arthedashamahamooleeyam Adhyaya - 3,4,10,11,12 2. Cha.Ni.01-Jwara nidana Adhyaya- 3,5,7,8,9,10,11,38-40 3. Cha.Ni.02-Raktapitta nidana Adhyaya- 19,27 4. Cha.Ni.04-Prameha nidana adhyaya- 3, 4, 48-49 5. Cha.Ni.05- Kushta nidana Adhyaya- 3,4,5,8 6. Cha.Ni.06-Shosha nidana Adhyaya- 3,5,7,9,11,14 7. Cha.Ni.07- Unmada nidana Adhyaya- 5,19-22 8. Cha.Ni.08- Apasmara nidana adhyaya- 3,5,17-22, 33-35,37-39 9. Cha.Sha.1-Katithapurusheeya Adhyaya- 16-23, 28-30,36, 63, 64,70-74, 98,102,109,137-139, 148,149 10. Cha.Sha.02-Atulyagothreeyam Adhyaaya- 26, 27, 35,44,45-47 11. Cha.Sha.03-Khuddika garbhavakranti Adhyaya- 17 12. Cha.Sha.04-Mahatee garbhavakranti | 10 |
| | | | Adhyaya- 6,36 13. Cha.Sha.05-Purushavichaya Shareera Adhyaya- 3, 5, 8,16 | |

| | | | 14. Cha.Sha.06-Sareeravichaya adhyaya-4, 5-11, 12,13, 17, 28, 3015. Cha.Sha.07- Sareerasankhya sareeraAdhyaya | |
|----|--|---|--|----|
| 13 | LEARNING THROUGH VYAKHYANA-2 | 2 | See Practical No.2 for instructions Suggested sutras: 1. Cha.Ni. 4-Prameha nidana adhyaya -4 2. Cha.Sha.1-Katithapurusheeya Adhyaya-21 3. Cha.Sha. 6- Sareeravichaya adhyaya - 9-11 | 3 |
| 14 | CASE TAKING IN RELATION TO NIDANA PANCHAKA | 2 | Purpose: To map the disease process through nidana-panchaka (Ref: Ch Ni 1)Teacher's role: Demonstrate the case proforma in patients; Assign five patients to students for documenting nidanapanchakaStudents role: Furnish the case proforma in five patients | 12 |
| 15 | DIFFERENTIAL DIAGNOSIS OF SKIN DISEASES BASED ON GUIDELINES ONKUSHTA | 2 | Purpose: To familiarize differential diagnosis of kushta through Ayurvedic parameters (Ref: Ch Ni 5) Teacher's role: Demonstrate case taking in a few cases Students role: Furnish the case proforma for minimum three cases of skin diseases | 2 |
| 16 | PRAMANA PARIKSHA | 2 | Purpose: To familiarize Ayurvedic methods of physiometry (Ref: Ch Sha 7) Teacher's role: Preparing measurement methods based on anguleeprmana and anjaleepramana as explained in Ayurveda; Demonstrating such methods in healthy individuals Students role: Assessing physiometry based on the guidelines given by the treacher in three individuals/peers and document the observations | 2 |
| 17 | IDENTIFICATION OF VIKARAVIGHATA BHAVA ABHAVA IN PATIENTS | 2 | Purpose: To explore concept of vikara- vighata-bhava-abhava in clinical scenario. (Ref: Ch Ni 4/3 along with Chakrapani commentary) | 2 |

| | | | Teachers role: Divide class into four or five groups and assign most commonly seen diseases to each group (Eg. Prameha); Conduct group discussions to identify risk factors / protective factors of respective diseases through literature review, interaction with peers and teachers; Sum up findings of group discussions and prepare check list for each disease Student's role: Conduct group discussions to identify risk/protective factors of disease assigned to them; Prepare check list for each disease regarding probable risk/protective factors; Identify presence/absence of items in the check list in minimum of three cases of the respective disease | |
|----|---|---|--|----|
| 18 | EXPLORATION OF LOKA PURUSHA SAMYA VADA IN THE BACK GROUND OF ONE HEALTH | 2 | Purpose: To explore loka-purusha-samya in the background of one health movement (Ref: Ch Sha 5) Teacher's role: Conduct discussions in the class to identify how nature is related to human being; Explore this relationship in the background of concept of one health; conduct discussions Students role: Conduct the discussions and prepare a summary report | 2 |
| 19 | SHLOKA PATHANA-3 | 3 | Refer Practical No.1 for instructions Sutras suggested: Cha.Vi. 01- Rasa vimaana Adhyayam-10,24 Cha.Vi. 02-Trividha kuksheeya Adhyayam-15-18 Cha.Vi. 04-Trividha roga vishesha vijnyaneeya adhyaya-4,12 Cha.Vi. 05- Sroto vimana Adhyaya-3,4,7,9-27 Cha.Vi. 06-Roganika vimana adhyaya -19 Cha.Vi. 07- Vyadhita rupeeya vimana Adhyaya-28 Cha.Vi. 08-Rogabhishagjiteeyam Adhyaayam-3,6,68-78 Cha.In.5-Purvarupeeyam Indriyam Adhyaya-43 Cha.In.11-Anujyotiyam Indriya | 10 |

| | | | Adhyaya-29 | |
|----|---|---|--|---|
| 20 | LEARNING THROUGH VYAKHYANA-3 | 3 | Refer Practical No.2 for instructions Sutras suggested: 1. Cha.Vi.01- Rasa vimaana Adhyayam -10 2. Cha.Vi.08- Rogabhishagjiteeyam Adhyaayam-68 -80 | 3 |
| 21 | LEARNING THROUGH SAMBHASHA PARISHAD | 3 | Purpose: To familiarize the method of Sambhasha parishad in bringing out scientific discussions. (Ref: Ch Vi 8) Teacher's role: Prepare guidelines for conducting Sambhasha parishat as per descriptions in Vadamarga; Demonstrate parishat in the class either through a video demonstration or otherwise; Divide the class into four or five groups and assign one topic each for them; Evaluate the group presentations based on the guidelines Student's role: Each group will prepare and demonstrate a parishat in the subject concerned; Prepare summary of the parishat Suggested topics: Relevance of Daivavyapasraya cikitsa Relevance of food classification Specific agrya related to vihara (Eg: vishado rogavardhananam) Importance of naming of disease Relevance of viruddha ahara | 6 |
| 22 | SROTAS PROFORMA | 3 | Purpose: To assess status of srotodushti in different clinical conditions (Ref: Ch Vi 5)Teacher's role: Demonstrate the proforma for assessment of srotas in clinical conditionsStudents role: Furnish the srotas proforma in at least three cases | 2 |
| 23 | LEARNING THROUGH TANTRA YUKTI | 3 | Purpose: Demonstrate use of tantrayukti in different sutrasTeachers role: Identify and demonstrate application of tanrayukti in different sutras | 5 |

| - | repare summary on justifying importan |
|----|---|
| | tantrayukti in selected sutras |
| | uggested Tantrayuktis: |
| 1. | Adhikaran - commonly seen in many |
| su | itras |
| 2. | Yoga - commonly seen in many sutras |
| 3. | Padartha - commonly seen in many |
| su | itras |
| 4. | Vakyasesha - commonly seen in many |
| su | itras |
| | Upadesha - Ca. Su. 13/18-19, Ca. Su. 3/94 |
| 6. | Niyoga - Ca. Su. 13/34, Ca. Ni. 3/17 |
| 7. | Apadesha - Ca. Su. 13/13, Ca. Su. |
| 18 | 3/44-46, Ca. Su. 26/41, Ca. Ni. 2/12-17 |
| 8. | Samuchaya - Ca. Su. 13/23-25, Ca. Su |
| |)/8, Ca. Su. 23/5-7, Ca. Su. 23/27-30, C |
| | i. 3/7 |
| 9. | Nidarshana - Ca. Su. 13/96-97, Ca. Su |
| 17 | 7/75(1), Ca. Su. 14/5, Ca. Su. 19/5, Ca. |
| Sı | ı. 30/5 |
| 1(|). Nirvachana - Ca. Su. 16/31-32, Ca. S |
| 16 | 5/34, Ca.Su. 17/95, Ca. Su. 21/9, Ca. S |
| 25 | 5/4, 11. Ca. Su. 29/4, Ca. Su. 30/5, Ca. |
| | ı. 30/12, Ca. Su. 30/24 |
| 12 | 2. Vidhana - Ca. Su. 15/11, Ca. Su. 15/ |
| С | a. Su. 16/27 |
| 13 | 3. Prasanga - Ca. Su. 17/113, Ca. Su. |
| 20 | 0/8, Ca. Su. 25/4, Ca. Ni. 1/3, Ca. Sa. |
| 1/ | 118-126 |
| 14 | 4. Viparyaya - Ca. Su. 25/31, Ca. Sa. 6/ |
| C | a. Sa. 6/9, Ca. Ni. 3/7, Ca. Ni. 3/9, Ca. |
| N | i. 3/11 |
| 15 | 5. Ekantika - Ca. Su 15/5, Ca. Su. 20/2/ |
| С | a. Su. 21/20, Ca. Su. 25/31, Ca. Su. |
| 3(| 0/25, Ca. Ni. 1/32 |
| 16 | 5. Atitaveksha - Ca. Su. 22/31, Ca. Su. |
| 28 | 3/25-30 |
| 17 | 7. Anagataveksha - Ca. Su. 15/5, Ca. Su |
| 28 | 8/30, Ca. Vi. 8/93, Ca. Vi. 8/135, Ca. V |
| 8/ | 136 |
| 18 | 3. Swasangya - Ca. Su. 30/3 |
| | 9. Prayojana - Ca. Su. 30/26, Ca. Sa. 5/ |
| |). Anumata - Ca. Su. 26/64-65, Ca. Su. |
| | 5/28, Ca. Sa. 1/16 |
| | I. Vikalpa - Ca. Su. 26/105 |
| | 2. Pradesha - Ca. Su. 27/329, Ca. Vi. |
| | 137 |

| | | | 23. Sambhava - Ca. Su. 28/45 24. Hetwartha - Ca. Ni. 2/21, Ca. Ni. 4/4, Ca. Ni. 7/28, Ca. Vi. 3/40 25. Atidesha - Ca. Sa. 6/11 26. Apavarga - Ca. Su. 26/106 27. Uddhara - Ca. Su. 25/29 28. Anaikantika - Ca. Su. 15/4 29. Pratyutsara and Uddhara - Ca. Su. 25/10-28 30. Nirnaya - Ca. Su. 25/29 31. Apavarga - Ca. Vi. 1/10 | |
|----|---|---|--|---|
| 24 | ASSESSMENT OF HEALTH THROUGH DHATU SAMYA PAREEKSHA | 3 | Purpose: To assess health status of a person based on dhatusamya pareeksha. (Ref: Ch Vi 8/89) Teacher's role: Demonstrate use of proforma in healthy subjects Students role: Assess dhatusamya in ten individuals using the proforma | 2 |
| 25 | AGNI ASSESSMENT BASED ON APACHARA | 3 | Purpose: To familiarise the assessment of agni based on apacara-visesha (Ref: Ch Vi 6/12) Teacher's role: Explain the concept of agnipareeksha based on apacharavisesha; Demonstrate the questionnaire in a few subjects Students role: Assess agni of ten individuals using the proforma | 2 |
| 26 | TRIVIDHA ROGA VISHESHAVIJNANA IN DIAGNOSIS | 3 | Purpose: To justify the role of trividha- rogavisesha vijnana (pratyaksha, anumana and aptopadesa) in clinical methods. (Ref: Ch Vi 4) Teacher's role: Demonstrate the use of pratyaksha, anumana and aptopadesa in case taking, stressing on use of sense organs (smell, touch, vision and sound), methods of inference and importance of aptopadesa (writing respective references relevant in a particular case); Assigning cases to demonstrate the above methods Students role: Prepare reports on application of trividha visesha vijnana in three cases | 3 |

| 27 | ASSESSMENT OF UPASAYA AND ANUPASAYA IN PATIENTS | 3 | Purpose: To justify importance of upasaya and anupasaya clinical examination (Ref: Ch Ni 1 with Chakrapani commentary) Teacher's role: Demonstrate identification of upasaya and anupasaya in selected cases Students role: Identify upasaya and anupasaya in a minimum of three cases and document it | 2 |
|----|--|---|--|-----|
| | | | Total Hr | 100 |

Activity

| СО | Topic name | Activity Details | Hours # | |
|-------------|---|--|-------------------|--|
| CO5,CO7 | Cha.Su.15-Upakalpaneeya Adhyaya | Expert Lecture on Aturalaya: This activity will evoke an interest among students about planning for construction of Hospitals and Nursing homes. Topic: Standard guidelines to setup Ayurveda Clinics, Nursing Homes and Hospitals. | | |
| CO6,CO7,CO8 | Cha.Su.19-Ashtodareeya AdhyayaActivity on Disease classification: Teacher should give an insight to NAMASTE portal published by Ministry of AYUSH. Students should go through with every standardised Ayurveda terminologies related to disease classification and also National Ayurveda Morbidity codes. | | 2 | |
| CO4,CO6,CO8 | Cha.Su.20- Maharoga adhyaya | Compilation/ Making monograph on Nanatmaja vikara: Steps (1) Teacher should make teams of 3-5 students.(2) An Editorial team for making monograph has to be made including experts of Roga Nidana. (3) Divide the 140 diseases into available number of teams. (4) Teacher should provide a format to collect data on each diseases which must include pictorial representation of disease and cross references. (5) The Editorial team will collect the data from all teams and edit in the form of a | 3 | |

| | | book. (6) The content should be reviewed by Experts and made as E-Monograph (PDF)/ Book. | |
|-------------|--|--|---|
| CO4,CO7 | Cha.Su.21- Ashtauninditeeya adhyaya | Video making on concept of Nidra: Steps (1) Teacher should explain the content on which students should make video (2) The Minimum duration of Video should be 3 minutes. (3) Video can be in regional languages. (4) Teacher should select the best videos and can publish in social media after rectifying the content of the video. | 1 |
| CO4,CO5,CO7 | Cha.Su.25- Yajjapurusheeya Adhyaya | Justifying concept of Hita and Ahita ahara: Steps (1) Students should be divided in to groups and assign some of the Hita and Ahita ahara dravya (2) Student should find and discuss the logical explanations on justifying the given dravya as Hita or Ahita | 2 |
| CO4,CO5,CO7 | Cha.Su.26- Atreyabhadrakaapyeeya Adhyaya | Application of paradi guna: Steps (1) Any probable drug or treatment plan to be selected and assign to various groups (2) Students should view them through paradi guna and document it. | 2 |
| CO5,CO8 | Cha.Su.27- Annapaanvidhi Adhyaya | Collection of different dravya's: Steps (1) Student should collect different dravya's available in their locality. (2) Student should exhibit the same and discuss with experts. (3) Document opinion given by experts. | 2 |
| CO4,CO8 | Cha.Su.29- Dashapraanaayataneeya Adhyaya | Skit on different types of vaidya in relation to medical ethics: Steps (1) The class has to be divided into teams and they should be assigned to write a story for skit, considering different qualities of vaidya (2) They should perform the skit after Screening done by concerned teachers | 2 |
| CO4,CO6 | Cha.Ni. 08- Apasmara nidana adhyaya | Documentation of Nidanarthakara roga: Student should discuss and document the experiences of practising physicians of their | 2 |

| | | Hospital or outside about Nidanarthakara roga. | |
|-----------------|--|---|---|
| CO3,CO4,CO6,CO7 | Cha.Ni. 08- Apasmara nidana adhyaya | Quiz on Nidana sthana: Steps (1) Teacher should give a written test including important multiple choice questions of nidana sthana. (2) The highest scoring students should be selected and made into different teams as per the convenience. (3) The selected students should be conducted quiz with different rounds considering the content of the Nidana sthana. | 2 |
| CO3,CO4,CO7 | Cha.Sha.1-Katithapurushe eya Adhyaya. | Game on Ashta smruti karana: Steps (1) Plan the Memory check games by using Different materials such as Drugs, Books and instruments.(2) Students should be subjected for memory check sessions. (3) Later their experiences should be interpreted through Ashta smruti karana. | 2 |
| CO4,CO6,CO7 | Cha.Sha. 04- Mahatee garbhavakranti Adhyaya | Identify film/Tv serial characters having different qualities of Trividha satwa and their varieties: Steps (1) Students has to be divided into teams and each team should be assigned some of the satwa. (2) The team should collect the video clips of those characters and has to present to all after getting scrutinized by teachers. | 2 |
| CO4,CO8 | Cha.Sha. 05- Purushavichaya Adhyaya | Adopting pravrutti and nivrutti upayas in present era: Steps (1) Teacher should make teams and assign different pravrutti and nivrutti upayas.(2) Team should present the pravrutti and nivrutti upayas considering relevance in present era. | 2 |
| CO4,CO7,CO8 | Cha.Sha. 06- Sareeravichaya adhyaya | Analysing Data on causes of akala mrutyu: Students should search and collect data from online sources published by Govt or Private Authorities about the causes of Akala mrutyu. Analyse and present the data and discuss on Akala mrutyu in the class. | 2 |

| CO4,CO7 | Cha.Sha.08- Jathisutreeya Adhyaya | Street play on awareness of garbhopaghatakara bhava: Steps (1) Teacher should make teams and explain about the structure of street play (2) Student should create a narrative story to present the concept in public (3) Minimum duration of the play is 15 minutes | 2 |
|-----------------|---|--|---|
| CO7,CO8 | Cha.Vi.01- Rasa vimaana Adhyayam | Digital Posters for public awareness on Ahara vidhi: Steps (1) Teacher should assign the topic to the students individually or in group. (2) Student should make a digital posters or infographics with the help of various online tools such as CANVA etc. | 2 |
| CO4,CO7,CO8 | Cha.Vi. 03- Janapadodwansaneeya Vimanam Adhyaya | Short Documentary on any of the Janapadodhwamsakara bhava: Steps (1) Teacher should guide the students on Janapadodhwamsakara bhava (2) Students should be taught on what is documentaries and should fix the duration of video. (3) Teams should be made and they have to shoot and edit the videos on any of the janapadodhwamsakara bhava. (4) Present the documentaries and share experience. | 2 |
| CO4,CO8 | Cha.Vi. 8-Rogabhishagjiteeyam Adhyaayam. | Identifying Adhyayana vidhi: Steps (1) Teacher should guide the students to identify and document different individual and group learning techniques. (2) Students should present and share experience on their learning techniques | 2 |
| CO3,CO4,CO7 | Cha.In.5-Purvarupeeyam Indriyam Adhyaya | Identifying types of swapna: Steps (1) Teacher should assist to make a Proforma for different types of Swapna. (2) Student should assess the proforma with Healthy individuals or diseased and analyse the Data. | 2 |
| CO3,CO4,CO7,CO8 | Cha.In.12-Gomayachurni yam Indriya Adhyaya | Discussion on death signs: Steps (1) Teacher should assign set of students to interact with | 1 |

| | | concerned ICU Doctors/ Nurses or assistants. (2) Students should interact with them based on arishta lakshanas and document it. | |
|-------------|------------------------------------|--|---|
| CO3,CO6,CO7 | Cha.In.01-Varnaswareeya Adhyaya | Use of various standard tools for assessing factors related to arishta : Students are assigned with some of the standard tools to assess various fators relevant in arishta-vijnana availale in the following source: https://www.car akasamhitaonline.com/mediawiki-1.32.1/index.p hp?title=Varnasvariyam_Indriyam_Adhyaya#As sessment_of_complexion | 2 |

Hours indicated are included in calculations of Table 3 and 4

| Sr No | Teaching learning methods in the course | No of Activities |
|-------|---|------------------|
| 1 | Lecture | 30 |
| 2 | Lecture with Power point presentation | 17 |
| 3 | Lecture & Group Discussion | 364 |
| 4 | Lecture with Video clips | 20 |
| 5 | Discussions | 37 |
| 6 | Brainstorming | 58 |
| 7 | Inquiry-Based Learning | 14 |
| 8 | PBL | 6 |
| 9 | CBL | 48 |
| 10 | Project-Based Learning | 5 |
| 11 | TBL | 1 |
| 12 | Team project work | 2 |
| 13 | Flipped classroom | 29 |
| 14 | Blended Learning | 9 |
| 15 | Edutainment | 9 |
| | | |

Table 5- Teaching learning method

Mobile learning

| 17 | Role plays | 15 |
|----|------------------------|-----|
| 18 | Self-directed learning | 105 |
| 19 | Problem solving method | 2 |
| 20 | Workshops | 2 |
| 21 | Game-Based Learning | 4 |
| 22 | Demo on Model | 1 |
| 23 | Library Session | 4 |
| 24 | Peer learning | 6 |
| 25 | Real life experience | 4 |
| 26 | Recitation | 40 |
| 27 | Presentations | 3 |
| 28 | Case diagnosis | 1 |
| 29 | Drug analysis | 4 |
| 30 | Demonstration | 9 |
| 31 | Demonstration bedside | 4 |
| 32 | Field visit | 3 |

These are overall teaching learning methods listed in Table 3 and 4. Teachers can select the best possible method amongst the given methods as per objective, available time etc.

Table 6: Assessment Summary: Assessment is subdivided in A to H points

6 A-Number of Papers and Marks Distribution

| Subject | Papers | Theory | | Practical/Clinical Assessment | | | | |
|--------------|--------|--------|-----------|--------------------------------------|----------------|----|--------------|----------------|
| Code | | | Practical | Viva | Elective | IA | Sub Total | Grand Total |
| AyUG- SA2 | 1 | 100 | - | 75 | 10 (Set SB) | 15 | 100 | 200 |

6 B - Scheme of Assessment (formative and Summative)

| PROFESSIONAL | DURATION OF PROFESSIONAL COURSE | | | | | |
|--------------|---------------------------------|------------------------------|------------------------------|--|--|--|
| COURSE | First Term (1-6 Months) | Second Term (7-12 Months) | Third Term (13-18 Months) | | | |
| Second | 3 PA & First TT | 3 PA & Second TT | 3 PA & UE** | | | |

PA: Periodical Assessment; TT: Term Test; UE: University Examinations.

** University Examination shall be on entire syllabus

6 C - Calculation Method for Internal assessment Marks

| | PERIODICAL ASSESSMENT* | | | | | TERMTERTEST**ASSESS | | |
|----------|--|--|--------------------|--------------------------|--|--|----------------------------|------------------------------|
| | Α | В | C | D | Е | F | G | Н |
| TERM | 1 (15 Marks) | 2 (15 Marks) | 3 (15 Marks) | Average (A+B+C/ 3) | Converted to 15 Marks (D/15*15) | Term Test (Marks converted to 15) (15 Marks) | Sub Total _/30 Marks | Term Ass essment (/15) |
| FIRST | | | | | | | E+F | (E+F)/2 |
| SECOND | | | | | | | E+F | (E+F)/2 |
| THIRD | | | | | | NIL | | E |
| Final IA | Average of | Three Term | Assessment | Marks as Sh | own in 'H' C | Column. | | |
| | *Select an I for Periodic Theory (10 | Maximum Marks in Parentheses *Select an Evaluation Method which is appropriate for the objectives of Topics from the Table 6 D for Periodic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks) (MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert total to 15 marks. | | | | | | |

6 D - Evaluation Methods for Periodical Assessment

| S. No | Evaluation Methods |
|-------|---|
| 1 | Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3 |

Evaluation Methods in MSE

- 1. Practical / Clinical Performance
- 2. Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
- 3. Open Book Test (Problem Based)

4. Summary Writing (Research Papers/ Samhitas)

5. Class Presentations; Work Book Maintenance

F. Problem Based Assignment

7. Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)

8. Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).

9. Small Project etc.

II PROFESSIONAL BAMS EXAMINATIONS AyUG-SA2 PAPER-1

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory

| | | Number of Questions | Marks per question | Total Marks |
|-----|---------------------------------|------------------------|--------------------|-------------|
| Q 1 | MULTIPLE CHOICE QUESTIONS (MCQ) | 20 | 1 | 20 |
| Q 2 | SHORT ANSWER QUESTIONS (SAQ) | 8 | 5 | 40 |
| Q 3 | LONG ANSWER QUESTIONS (LAQ) | 4 | 10 | 40 |
| | | | | 100 |

| Pape | er 1 | | | | | |
|-----------|--|-----------|------------|-----------------|------------------|----------------------|
| Sr. No | A List of Topics | B Term | C Marks | MCQ (1 Mark) | SAQ (5 Marks) | LAQ (10 Marks) |
| 1 | Cha.Su.13- Sneha Adhyaya | 1 | 37 | Yes | Yes | Yes |
| 2 | Cha.Su.14- Sveda Adhyaya | 1 | | Yes | Yes | Yes |
| 3 | Cha.Su.15- Upakalpaneeya Adhyaya | 1 | | Yes | Yes | Yes |
| 4 | Cha.Su.16- Chikitsaprabhritiya Adhyaya | 1 | - | Yes | Yes | Yes |
| 5 | Cha.Su.17- Kiyantashiraseeya Adhyaya | 1 | - | Yes | Yes | Yes |
| 6 | Cha.Su.18-Trisotheeya Adhyaya | 1 | - | Yes | Yes | Yes |
| 7 | Cha.Su.19-Ashtodareeya Adhyaya | 1 | | Yes | Yes | No |
| 8 | Cha.Su.20- Maharoga adhyaya | 1 | - | Yes | Yes | No |
| 9 | Cha.Su.21- Ashtauninditeeya adhyaya | 1 | | Yes | Yes | Yes |
| 10 | Cha.Su.22- Langhanabrimhaneeya Adhyaya | 1 | - | Yes | Yes | Yes |
| 11 | Cha.Su.23- Santarpaneeya Adhyaya | 1 | - | Yes | Yes | Yes |
| 12 | Cha.Su.24- Vidhishoniteeya Adhyaya | 1 | - | Yes | Yes | Yes |
| 13 | Cha.Su.25- Yajjapurusheeya Adhyaya | 1 | - | Yes | Yes | Yes |
| 14 | Cha.Su.26- Atreyabhadrakaapyeeya Adhyaya | 1 | 1 | Yes | Yes | Yes |
| 15 | Cha.Su.27- Annapaana vidhi Adhyaya | 1 | | Yes | Yes | No |
| 16 | Cha.Su.28- Vividhashitapeeteeya Adhyaya | 1 | | Yes | Yes | Yes |
| | | | | | | |

| 17 | Cha.Su.29- Dashapraanaayataneeya Adhyaya | 2 | | Yes | Yes | No |
|----|---|---|----|-----|-----|-----|
| 18 | Cha.Su.30- Arthedashamahamooleeya Adhyaya | 2 | | Yes | Yes | Yes |
| 19 | Cha.Ni.01-Jwara nidana Adhyaya | 2 | 19 | Yes | Yes | Yes |
| 20 | Cha.Ni.02-Raktapitta nidana Adhyaya | 2 | | Yes | Yes | Yes |
| 21 | Cha.Ni.03-Gulma nidana Adhyaya | 2 | | Yes | Yes | No |
| 22 | Cha.Ni.04-Prameha nidana adhyaya | 2 | | Yes | Yes | Yes |
| 23 | Cha.Ni.05-Kushta nidana Adhyaya | 2 | | Yes | Yes | Yes |
| 24 | Cha.Ni.06-Shosha nidana Adhyaya | 2 | | Yes | Yes | Yes |
| 25 | Cha.Ni.07-Unmada nidana Adhyaya | 2 | | Yes | Yes | Yes |
| 26 | Cha.Ni.08-Apasmara nidana adhyaya | 2 | | Yes | Yes | Yes |
| 27 | Cha.Vi.01- Rasa vimana Adhyayam | 3 | 24 | Yes | Yes | Yes |
| 28 | Cha.Vi.02-Trividha kuksheeya Adhyayam | 3 | | Yes | Yes | Yes |
| 29 | Cha.Vi.03-Janapadodhwansaneeya Vimanam Adhyaya | 3 | | Yes | Yes | Yes |
| 30 | Cha.Vi.04-Trividha roga vishesha vijnyaneeya adhyaya | 3 | | Yes | Yes | Yes |
| 31 | Cha.Vi. 05- Sroto vimana Adhyaya | 3 | | Yes | Yes | Yes |
| 32 | Cha.Vi. 06-Roganika vimana adhyaya | 3 | | Yes | Yes | Yes |
| 33 | Cha.Vi. 07- Vyadhita rupeeya vimana Adhyaya | 3 | | Yes | Yes | Yes |

| 34 | Cha.Vi. 08-Rogabhishagjiteeyam Adhyaayam. | 3 | | Yes | Yes | Yes |
|----|--|---|----|-----|-----|-----|
| 35 | Cha.Sha.01-Katithapurusheeya Adhyaya | 2 | 13 | Yes | Yes | No |
| 36 | Cha.Sha.02-Atulyagothreeyam Adhyaaya | 2 | | Yes | Yes | No |
| 37 | Cha.Sha.03-Khuddika garbhavakranti Adhyaya | 2 | | Yes | Yes | No |
| 38 | Cha.Sha.04-Mahatee garbhavakranti Adhyaya | 2 | | Yes | Yes | Yes |
| 39 | Cha.Sha.05-Purushavichaya Shareera Adhyaya | 2 | - | Yes | Yes | No |
| 40 | Cha.Sha.06-Sareeravichaya adhyaya | 2 | | Yes | Yes | No |
| 41 | Cha.Sha.07- Sareerasankhya sareera Adhyaya | 2 | - | Yes | Yes | No |
| 42 | Cha.Sha.08-Jathisutreeya Adhyaya | 2 | - | Yes | Yes | No |
| 43 | Cha.In.1-Varnasvariyam Indriya Adhyaya | 3 | 7 | Yes | Yes | No |
| 44 | Cha.In.2-Pushpitakam Indriya Adhyaya | 3 | | Yes | No | No |
| 45 | Cha.In.3-Parimarshaneeyam Indriyam Adhyaya | 3 | - | Yes | No | No |
| 46 | Cha.In.4-Indriyaneekam Indriya adhyaya | 3 | | Yes | No | No |
| 47 | Cha.In.5-Purvarupeeyam Indriyam Adhyaya | 3 | | Yes | Yes | No |
| 48 | Cha.In.6-Katamanisharireeyam Indriyam Adhyaya | 3 | | Yes | No | No |
| 49 | Cha.In.7-Pannarupiyam Indriyam Adhyaya | 3 | | Yes | Yes | No |
| 50 | Cha.In.8-Avakshiraseeyam Indriyam | 3 | | Yes | No | No |

| | Adhyaya | | | | | |
|-----|---|---|-----|-----|-----|----|
| 51 | Cha.In.9-Yasya shyavanimittiya Indriya Adhyaya | 3 | | Yes | No | No |
| 52 | Cha.In.10-Sadyomaraneeyam Indriya Adhyaya | 3 | | Yes | Yes | No |
| 53 | Cha.In.11-Anujyotiyam Indriya Adhyaya | 3 | | Yes | Yes | No |
| 54 | Cha.In.12-Gomayachurniyam Indriya Adhyaya | 3 | | Yes | Yes | No |
| Tot | al Marks | 1 | 100 | | | |

| Paper No:1 | | | | |
|-------------|---------------------------|--|--|--|
| Question No | Type of Question | Question Paper Format | | |
| Q1 | | 1. Cha.Su.13- Sneha Adhyaya / Cha.Su.14- | | |
| | | Sveda Adhyaya | | |
| | Multiple choice Questions | 2. Cha.Su.17- Kiyantashiraseeya Adhyaya / | | |
| | 20 Questions | Cha.Su.15- Upakalpaneeya Adhyaya | | |
| | 1 mark each | 3. Cha.Su.20- Maharoga adhyaya / | | |
| | All compulsory | Cha.Su.18-Trisotheeya Adhyaya / | | |
| | | Cha.Su.19-Ashtodareeya Adhyaya | | |
| | Must know part - 15 MCQ | 4. Cha.Su.22- Langhanabrimhaneeya Adhyaya / | | |
| | Desirable to know - 3 MCQ | Cha.Su.21- Ashtauninditeeya adhyaya | | |
| | Nice to know part - 2 MCQ | 5. Cha.Su.23- Santarpaneeya Adhyaya / | | |
| | | Cha.Su.24- Vidhishoniteeya Adhyaya | | |
| | | 6. Cha.Su.28- Vividhashitapeeteeya Adhyaya / | | |
| | | Cha.Su.26- Atreyabhadrakaapyeeya Adhyaya | | |
| | | / Cha.Su.25- Yajjapurusheeya Adhyaya | | |
| | | 7. Cha.Su.30- Arthedashamahamooleeya | | |
| | | Adhyaya / Cha.Su.29- Dashapraanaayataneey | | |
| | | Adhyaya | | |
| | | 8. Cha.Ni.02-Raktapitta nidana Adhyaya / | | |
| | | | | |
| | | Cha.Ni.01-Jwara nidana Adhyaya | | |
| | | 9. Cha.Ni.04-Prameha nidana adhyaya / | | |
| | | Cha.Ni.03-Gulma nidana Adhyaya | | |
| | | 10. Cha.Ni.05-Kushta nidana Adhyaya / | | |
| | | Cha.Ni.06-Shosha nidana Adhyaya | | |
| | | 11. Cha.Ni.08-Apasmara nidana adhyaya / | | |
| | | Cha.Ni.07-Unmada nidana Adhyaya | | |
| | | 12. Cha.Vi.02-Trividha kuksheeya Adhyayam / | | |
| | | Cha.Vi.03-Janapadodhwansaneeya Vimanam | | |
| | | Adhyaya / Cha.Vi.01- Rasa vimana | | |
| | | Adhyayam | | |
| | | 13. Cha.Vi.04-Trividha roga vishesha vijnyaneey | | |
| | | adhyaya / Cha.Vi. 05- Sroto vimana Adhyaya | | |
| | | 14. Cha.Vi. 06-Roganika vimana adhyaya / | | |
| | | Cha.Vi. 07- Vyadhita rupeeya vimana | | |
| | | Adhyaya | | |
| | | 15. Cha.Vi. 08-Rogabhishagjiteeyam | | |
| | | Adhyaayam. | | |
| | | 16. Cha.Sha.02-Atulyagothreeyam Adhyaaya / | | |
| | | Cha.Sha.01-Katithapurusheeya Adhyaya | | |
| | | 17. Cha. Sha. 04-Mahatee garbhavakranti Adhyaya | | |
| | | / Cha.Sha.03-Khuddika garbhavakranti | | |
| | | Adhyaya / Cha.Sha.05-Purushavichaya | | |
| | | Shareera Adhyaya | | |
| | | 18. Cha.Sha.07- Sareerasankhya sareera Adhyaya | | |

| | | / Cha.Sha.06-Sareeravichaya adhyaya / Cha.Sha.08-Jathisutreeya Adhyaya 19. Cha.In.1-Varnasvariyam Indriya Adhyaya / Cha.In.2-Pushpitakam Indriya Adhyaya / Cha.In.4-Indriyaneekam Indriya adhyaya / Cha.In.5-Purvarupeeyam Indriyam Adhyaya 20. Cha.In.9-Yasya shyavanimittiya Indriya Adhyaya / Cha.In.11-Anujyotiyam Indriya Adhyaya / Cha.In.8-Avakshiraseeyam Indriyam Adhyaya / Cha.In.12-Gomayachurniyam Indriya Adhyaya |
|----|--|--|
| Q2 | Short answer Questions Eight Questions 5 Marks Each All compulsory Must know - 7 SAQ Desirable to know - 1 SAQ No questions on Nice to know | Cha.Su.13- Sneha Adhyaya / Cha.Su.14- Sveda Adhyaya / Cha.Su.16- Chikitsaprabhritiya Adhyaya / Cha.Su.20- Maharoga adhyaya / Cha.Su.18-Trisotheeya Adhyaya / Cha.Su.17- Kiyantashiraseeya Adhyaya / Cha.Su.15- Upakalpaneeya Adhyaya / Cha.Su.19-Ashtodareeya Adhyaya Cha.Su.28- Vividhashitapeeteeya Adhyaya / Cha.Su.26- Atreyabhadrakaapyeeya Adhyaya / Cha.Su.26- Atreyabhadrakaapyeeya Adhyaya / Cha.Su.25- Yajjapurusheeya Adhyaya / Cha.Su.22- Langhanabrimhaneeya Adhyaya / Cha.Su.23- Santarpaneeya Adhyaya / Cha.Su.24- Vidhishoniteeya Adhyaya / Cha.Su.21- Ashtauninditeeya adhyaya / Cha.Su.30- Arthedashamahamooleeya Adhyaya / Cha.Su.29- Dashapraanaayataneeya Adhyaya / Cha.Su.29- Dashapraanaayataneeya Adhyaya / Cha.Su.27- Annapaana vidhi Adhyaya Cha.Ni.04-Prameha nidana adhyaya / Cha.Ni.05-Kushta nidana Adhyaya / Cha.Ni.03-Gulma nidana Adhyaya / Cha.Ni.06-Shosha nidana Adhyaya / Cha.Ni.07-Unmada nidana Adhyaya / Cha.Ni.03-Janapadodhwansaneeya Vimanam Adhyayam / Cha.Vi.04-Roganika vimana adhyaya / Cha.Vi.05- Sroto vimana Adhyaya / Cha.Vi. 06-Roganika vimana adhyaya / Cha.Vi. 05- Sroto vimana Adhyaya / Cha.Vi. 07- Vyadhita rupeeya vimana Adhyaya |

| | | 6. Cha.Sha.02-Atulyagothreeyam Adhyaaya / Cha.Sha.01-Katithapurusheeya Adhyaya / Cha.Sha.04-Mahatee garbhavakranti Adhyaya / Cha.Sha.03-Khuddika garbhavakranti Adhyaya 7. Cha.Sha.07- Sareerasankhya sareera Adhyaya / Cha.Sha.06-Sareeravichaya adhyaya / Cha.Sha.06-Sareeravichaya adhyaya / Cha.Sha.08-Jathisutreeya Adhyaya / Cha.Sha.05-Purushavichaya Shareera Adhyaya 8. Cha.In.11-Anujyotiyam Indriya Adhyaya / Cha.In.1-Varnasvariyam Indriya Adhyaya / Cha.In.7-Pannarupiyam Indriyam Adhyaya / Cha.In.10-Sadyomaraneeyam Indriya Adhyaya / Cha.In.12-Gomayachurniyam Indriya Adhyaya / Cha.In.5-Purvarupeeyam Indriyam Adhyaya |
|----|---------------|--|
| Q3 | <text></text> | 1. Cha.Su.13- Sneha Adhyaya / Cha.Su.14- Sveda Adhyaya / Cha.Su.16- Chikitsaprabhritiya Adhyaya / Cha.Su.18-Trisotheeya Adhyaya / Cha.Su.17- Kiyantashiraseeya Adhyaya / Cha.Su.15- Upakalpaneeya Adhyaya 2. Cha.Su.28- Vividhashitapeeteeya Adhyaya / Cha.Su.26- Atreyabhadrakaapyeeya Adhyaya / Cha.Su.26- Atreyabhadrakaapyeeya Adhyaya / Cha.Su.25- Yajjapurusheeya Adhyaya / Cha.Su.22- Langhanabrimhaneeya Adhyaya / Cha.Su.23- Santarpaneeya Adhyaya / Cha.Su.23- Santarpaneeya Adhyaya / Cha.Su.24- Vidhishoniteeya Adhyaya / Cha.Su.21- Ashtauninditeeya adhyaya / Cha.Su.30- Arthedashamahamooleeya Adhyaya 3. Cha.Ni.04-Prameha nidana adhyaya / Cha.Ni.05-Kushta nidana Adhyaya / Cha.Ni.05-Kushta nidana Adhyaya / Cha.Ni.06-Shosha nidana Adhyaya / Cha.Ni.06-Shosha nidana Adhyaya / Cha.Ni.07-Unmada nidana Adhyaya / Cha.Ni.07-Nyadhita rupeeya vimana Adhyaya / Cha.Vi.07-Vyadhita rupeeya vimana Adhyaya / Cha.Vi.07-Nyadhita |

| vinana Adnyayam |
|-----------------|
|-----------------|

6 H Distribution of Practical Exam

| S.No | Heads | Marks |
|---------|--------------------------|-------|
| 1 | Viva on Practical record | 10 |
| 2 | Shloka recitation | 10 |
| 3 | Viva on vyakhyana | 5 |
| 4 | Viva on Sutrasthana | 20 |
| 5 | Viva on Nidanasthana | 10 |
| 6 | Viva on Vimanasthana | 10 |
| 7 | Viva on Shareerasthana | 5 |
| 8 | Viva on Indriyasthana | 5 |
| 9 | Electives (Set SB) | 10 |
| 10 | IA | 15 |
| Total M | arks | 100 |

| S.No | Book | Resources | |
|------|--|--|--|
| 1 | Charakasamhita with Cakrapani Commentary | Yadavji Trikamji, editor. Agnivesha. Charaka Samhita. Ayurveda Dipika. Chakrapanidatta (comm)(Sanskrit) Varanasi: Chaukambha Sanskrit Sansthan | |
| 2 | Charak Samhita (English Commentary) | Ram Karan Sharma and Bhagawan Dash, editor. Charak Samhita (English Commentary): Varanasi: Chowkambha Sanskrit Series | |
| 3 | Charak Samhita (Hindi commentary) | Harishchandra Singh Kushvaha, editor and translator. Charak Samhita (Hindi Commentary): Varanasi: Chaukambha Orientalia | |
| 4 | Charak Samhita (Hindi commentary) Jayadev Vidyalankar, editor. Charak Samhita (Hi commentary): Motilal Banarsi Dass Publishers P | | |
| 5 | Charak Samhita (Hindi commentary): Vaidya Atridev Vidyalankar | : Charak Samhita (Hindi commentary): Vaidya Atridev Vidyalankar | |
| 6 | 6 Charak Samhita (Hindi commentary) Gorakhanath Chaturvedi and Kashinath Pandeya S editor. Charak Samhita (Hindi commentary): Varana Chaukhambha Bharati Academy | | |
| 7 | Charak Samhita (Hindi commentary) Brahmanand Tripathi, editor. Charak Samhita (Hind commentary):Varanasi: Chaukhamba Surbharati Pra | | |
| 8 | Charak Samhita (Hindi commentary):Vidyadhar Shukla and Ravidatta Tripathi Charak Sam (Hindi commentary): Varanasi: Chaukhamba Sanskrit Pratishtan | | |
| 9 | Charaka Samhita (Hindi commentary) | Banwari Lal Gaur, editor. Charaka Samhita (Hindi commentary): Rashtriya Ayurved Vishwavidyalaya | |
| 10 | Legacy of Caraka | M S Valiathan, Legacy of Caraka (English): Hyderabad: Orient Longman | |
| 11 | Charakasamhita | Charak e-Samhita –National Institute of Indian Medical Heritage – <u>http://niimh.nic.in/ebooks/ecaraka</u> | |
| 12 | Charakasamhita | Charakasamhitaonline.com - www.carakasamhitaonline.com | |
| 13 | Illustrated Carakasamhita, Dr. R Vidyanath | R Vidyanath, editor. Illustrated Carakasamhita (English Commentary): Varanasi Chaukhambha Prakashak | |
| 14 | Namaste Portal | NAMASTE - Portal (ayush.gov.in) | |
| 15 | CCRAS Prakriti tool | CCRAS Prakriti Tool http://www.ccras.res.in/ | |
| 16 | Sanskrit English Dictionary | Monnier Williams. A Sanskrit English Dictionary. Delhi. Motilal Banarsidasspublishers Pvt Ltd. | |

| 17 | Shabdakalpadruma | Raja Radha Kanta Deva, Shabda Kalpa Drum: Varanasi: Chowkhamba Sanskrit Series Office |
|----|-----------------------|--|
| 18 | Vaidyak Shabda Sindhu | Kaviraj Shri Nagendra Nath Sen Vaidya Shastri, Vaidyak Shabda Sindhu: Varanasi: Chowkhamba Orientalia |

Abbreviations

Assessment

| S.No | Short form | Discription |
|------|------------|-------------------------------|
| 1 | T-EMI | Theory extended matching item |
| 2 | T- EW | Theory Essay writing |
| 3 | T- MEQs | Theory MEQs |
| 4 | T-CRQs | Theory CRQs |
| 5 | T-CS | Theory case study |
| б | T-OBT | Theory open book test |
| 7 | P-VIVA | Practical Viva |
| 8 | P-REC | Practical Recitation |
| 9 | P-EXAM | Practical exam |
| 10 | PRN | Presentation |
| 11 | P-PRF | Practical Performance |
| 12 | P-SUR | Practical Survey |
| 13 | P-EN | Practical enact |
| 14 | P-RP | Practical Role play |
| 15 | P-MOD | Practical Model |
| 16 | P-POS | Practical Poster |
| 17 | P-CASE | Practical Case taking |
| 18 | P-ID | Practical identification |
| 19 | P-PS | Practical Problem solving |
| 20 | QZ | Quiz |
| 21 | PUZ | Puzzles |
| 22 | CL-PR | Class Presentation, |
| 23 | DEB | Debate |
| 24 | WP | Word puzzle |
| 25 | 0-QZ | Online quiz |

| 26 | O-GAME | Online game-based assessment |
|----|--------------|------------------------------|
| 27 | M-MOD | Making of Model |
| 28 | M-CHT | Making of Charts |
| 29 | M-POS | Making of Posters |
| 30 | C-INT | Conducting interview |
| 31 | INT | Interactions |
| 32 | CR-RED | Critical reading papers |
| 33 | CR-W | Creativity Writing |
| 34 | C-VC | Clinical video cases, |
| 35 | SP | Simulated patients |
| 36 | РМ | Patient management problems |
| 37 | СНК | Checklists |
| 38 | OSCE | OSCE |
| 39 | OSPE | OSPE, |
| 40 | Mini-CEX | Mini-CEX |
| 41 | DOPS | DOPS |
| 42 | CWS | CWS |
| 43 | RS | Rating scales |
| 44 | RK | Record keeping |
| 45 | СОМ | Compilations |
| 46 | Portfolios | Portfolios |
| 47 | Log book | Log book |
| 48 | TR | Trainers report |
| 49 | SA | Self-assessment |
| 50 | РА | Peer assessment |
| 51 | 360D | 360-degree evaluation |
| 52 | TT-Theory | Theory |
| 53 | PP-Practical | Practical |
| 54 | VV-Viva | Viva |

Domain

| S.No | Short form | Discription |
|------|------------|-----------------------------|
| 1 | СК | Cognitive/Knowledge |
| 2 | CC | Cognitive/Comprehension |
| 3 | САР | Cognitive/Application |
| 4 | CAN | Cognitive/Analysis |
| 5 | CS | Cognitive/Synthesis |
| 6 | CE | Cognitive/Evaluation |
| 7 | PSY-SET | Psychomotor/Set |
| 8 | PSY-GUD | Psychomotor/Guided response |
| 9 | PSY-MEC | Psychomotor/Mechanism |
| 10 | PSY-ADT | Psychomotor Adaptation |
| 11 | PSY-ORG | Psychomotor/Origination |
| 12 | AFT-REC | Affective/ Receiving |
| 13 | AFT-RES | Affective/Responding |
| 14 | AFT-VAL | Affective/Valuing |
| 15 | AFT-SET | Affective/Organization |
| 16 | AFT-CHR | Affective/ characterization |

T L method

| S.No | Short form | Discription |
|------|------------|---------------------------------------|
| 1 | L | Lecture |
| 2 | L&PPT | Lecture with Power point presentation |
| 3 | L&GD | Lecture & Group Discussion |
| 4 | L_VC | Lecture with Video clips |
| 5 | DIS | Discussions |
| 6 | BS | Brainstorming |
| 7 | IBL | Inquiry-Based Learning |
| 8 | PBL | PBL |
| 9 | CBL | CBL |
| 10 | PrBL | Project-Based Learning |
| 11 | TBL | TBL |
| 12 | TPW | Team project work |
| 13 | FC | Flipped classroom |
| 14 | BL | Blended Learning |
| 15 | EDU | Edutainment |
| 16 | ML | Mobile learning |
| 17 | ECE | ECE |
| 18 | SIM | Simulation |
| 19 | RP | Role plays |
| 20 | SDL | Self-directed learning |
| 21 | PSM | Problem solving method |
| 22 | KL | Kinesthetic Learning |
| 23 | W | Workshops |
| 24 | GBL | Game-Based Learning |
| 25 | D-M | Demo on Model |

| 26 | LS | Library Session |
|----|-------|---------------------------|
| 27 | PL | Peer learning |
| 28 | RLE | Real life experience |
| 29 | REC | Recitation |
| 30 | SY | Symposium |
| 31 | TUT | Tutorial |
| 32 | PER | Presentations |
| 33 | РТ | Practical |
| 34 | XRay | X ray identification |
| 35 | CD | Case diagnosis |
| 36 | LRI | Lab report interpretation |
| 37 | DA | Drug analysis |
| 38 | D | Demonstration |
| 39 | D_BED | Demonstration bedside |
| 40 | D_L | Demonstration Lab |
| 41 | DG | Demonstration Garden |
| 42 | FV | Field visit |
| 43 | PRA | Practical |
| | | |
| | | |

Course curriculum for Second Professional BAMS

(PRESCRIBED BY NCISM)



Agad Tantra evam Vidhi Vaidyaka (SUBJECT CODE : AyUG-AT)

(Applicable from 2021-22 batch, from the academic year 2023-24 onwards for 5 years or until further notification by NCISM, whichever is earlier)





BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110058

NCISM

II Professional Ayurvedacharya (BAMS)

Subject Code : AyUG-AT

Summary

| Total number of Teaching hours: 300 | | | | | | |
|-------------------------------------|------------|-----|----------|--|--|--|
| Lecture hours(LH)-Theor | У | | | | | |
| Paper I 100 | | 100 | 100(LH) | | | |
| Non Lecture hours(NLH) | -Theory | | | | | |
| Paper I 60 | | 200 | 200(NLH) | | | |
| Non Lecture hours(NLH) | -Practical | | | | | |
| Paper I | 140 | | | | | |

| Examination (Papers & Mark Distribution) | | | | | | | | |
|--|------------------------|-----------|---------------|----------------|----|--|--|--|
| Item | Theory Component Marks | I | Practical Com | ponent Marks | | | | |
| | | Practical | Viva | Elective | IA | | | |
| Paper I | 100 | 100 | 60 | (Set SA) 10 | 30 | | | |
| Sub-Total | 100 | 200 | | | | | | |
| Total marks | | 300 | 300 | | | | | |

Important Note:-The User Manual II BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual II before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic.

In case of difficulty and questions regarding curriculum write to cur.imp@ncismindia.org

PREFACE

Agada Tantra, is one of the eight clinical branches (Ashtanga) of Ayurveda. This branch of clinical toxicity was considered as the stalwart of Ayurveda which popularized this science across several civilizations around the world. Many great explorers glorified the snake bite management existed in India and this paved way for the popularization of Ayurveda in several countries with Ayurvedic scriptures being translated to several languages and many scholars came to India to study this science. The subject encompasses the detailed study for several toxicological conditions ranging from animate, inanimate and other disease entities with an inherent toxic pathology that enables to apply the principles of Agada Tantra in several diseases of contemporary significance.

Poisons disrupts the homeostasis created by the three doshas. Agada Tantra details measures to re-establish the proper functioning of the dosha, dhatu, mala, srotas and to reinstate the vital force (Oja). To attain this, a judicious use of Agada formulations is necessary coupled with specific treatment procedures enshrined in the 24-fold treatments (Chaturvimsati Upakrama). A proper assessment of the patient with respect to the level of spread of poison in the body ascertained through the concept of Vega is utmost important as far as any successful management of poisoning is concerned. A thorough knowledge of all these is essential to adopt treatment of any poison or to extend it to any contemporary toxicological conditions like contact dermatitis, food poisoning etc. Current curriculum has been designed to unearth the scope of this subject as a clinicl branch which aims at empowering an undergraduate student to understand the current clinical toxicological manifestations under the theoretical and practical/clinical framework of Agada Tantra.

The present curriculum of Agada Tantra equips an undergraduate student to grasp the clinical utility of these concepts through an effective teaching-learning process involving cognitive, psychomotor and affective domains. Students will be guided through effective teaching-learning methods to understand the concepts through state-of-the-art techniques like activity based learning, problem based learning and group activities. Effective evaluation techniques are also been incorporated to make the student community learn this subject in its entirity and utilizes the spectrum of its theoretical, practical and clinical aspects.

INDEX

| Course Code and Name of Course | 5 |
|---|---|
| Fable 1- Course learning outcomes and matched PO | 5 |
| Fable 2 : Contents of Course | 5 |
| Paper 1 | 5 |
| Cable 3: Learning objectives (Theory) of Course 12 | 2 |
| Paper 1 | 2 |
| List of Practicals | 2 |
| Cable 4: Learning objectives (Practical) 33 | 3 |
| Practical 1 | 3 |
| Fable 4a: List of Practical 40 |) |
| Activity | 2 |
| Fable 5- Teaching learning method 44 | 5 |
| Cable 6: Assessment Summary: Assessment is subdivided in A to H points 40 | 5 |
| 5 A-Number of Papers and Marks Distribution | 5 |
| 5 B - Scheme of Assessment (formative and Summative) | 5 |
| 5 C - Calculation Method for Internal assessment Marks | 7 |
| 5 D - Evaluation Methods for Periodical Assessment | 7 |
| 5 E Question Paper Pattern | 3 |
| 5 F Distribution of theory examination |) |
| Paper 1 |) |
| 5 G Blue print of paper I | |
| 5 H Distribution of Practical Exam | 3 |
| References Books/ Resources | 5 |
| Abbreviations | 7 |

Course Code and Name of Course

| Course code | Name of Course |
|-------------|---------------------------------|
| AyUG-AT | Agad Tantra evam Vidhi Vaidyaka |

Table 1- Course learning outcomes and matched PO

| SR1 CO No | A1 Course learning Outcomes (CO) AyUG-AT At the end of the course AyUG-AT, the students should be able to- | B1 Course learning Outcomes matched with program learning outcomes. |
|-----------------|--|---|
| CO1 | Demonstrate application of fundamental concepts of Agada Tantra, Vyavahara Ayurveda and Vidhi vaidyaka in real life situations. | PO1,PO2 |
| CO2 | Diagnose and manage acute and chronic poisoning due to Sthavara, Jangama and Kritrima visha along with their contemporary relevance. | PO1,PO2,PO3,PO4, PO5 |
| CO3 | Demonstrate application of concepts of Dushivisha, Garavisha and Viruddha ahara in prevention, diagnosis and management of diseases. | PO1,PO2,PO3,PO4, PO5 |
| CO4 | Demonstrate application of principles of Agada Tantra and therapeutic administration of common Agada yoga and Visha dravya in Clinical practice. | PO2,PO3,PO4,PO5, PO9 |
| CO5 | Appreciate research updates in relevance to Agada Tantra and apply for healthcare promotion and social awareness. | PO6,PO7,PO8,PO9 |
| CO6 | Demonstrate application of professional skills of Forensic Medicine in handling medico legal issues. | PO2,PO3,PO6 |
| CO7 | Demonstrate professional and ethical behavior in discharging the medico- legal duties and responsibilities in abidance to the law. | PO5,PO6,PO8,PO9 |

| Pap | er I | i | -i | | 1 |
|-----------|--|------------|-------------|------------------------|--------------------------------|
| Sr. No | A2 List of Topics | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
| 1 | Concepts of Agada Tantra (Clinical Toxicology) 1.1 Agada Tantra and Clinical Toxicology. 1.2 Scope of Agada Tantra. 1.3 Definition of visha and poison, synonyms, visha guna, difference between visha, madya and oja guna, visha gati, classification of visha and poison, sthavara and jangama visha adhishtana. 1.4 Difference between poison, venom and toxin. 1.5 Routes of administration of poison. 1.6 Mode of action of visha (visha gunanusara karma) and poison (Introduction to toxicokinetics) 1.7 Factors modifying the action of poison. 1.8 Visha vardhaka bhava and visha sankata 1.9 Vishavega, vegantara and sthavara visha veganusara lakshana and chikitsa. 1.10 Visha peeta and vishamukta lakshana. | 1 | 13 | 8 | 1 |
| 2 | Visha Chikitsa (Management of Poisoning) 2.1. Diagnosis of poisoning in living & dead 2.2. Chaturvimshati upakrama. 2.3. General principles of management of poisoning. 2.4. Duties of medical officer in case of suspected poisoning. | 1 | | 5 | 4 |
| 3 | Vishakta aahara pariksha and Viruddha ahara 3.1. Sources of exposure of visha with contemporary relevance. 3.2. Vishakta aahara pariksha. 3.3. Adulteration and tests for its detection. 3.4. Techniques used in the detection of poisons. 3.5. Viruddha-ahara with contemporary relevance. 3.6. Food poisoning and amavisha. | 1 | | 3 | 2 |
| 4 | Garavisha and Dooshivisha 4.1. Garavisha 4.2. Dooshivisha 4.3. Contemporary aspects of garavisha and dooshivisha. 4.4. Role of garavisha and dooshivisha in the manifestation of diseases 4.5. Research updates in garavisha and dooshivisha | 1 | 12 | 7 | 2 |
| 5 | Visha Upadrava and diseases caused due to exposure to Visha/poisons | 1 | 1 | 4 | 2 |

| | 5.1 Visha upadrava 5.2 Drug-induced toxicity 5.3 Occupational hazards. 5.4 Allergic manifestations 5.5 Endocrine disrupters | | | | |
|---|---|---|----|---|---|
| 6 | Environmental Toxicology 6.1 Vishakta vayu, jala and bhumi (air, water and land pollution) 6.2 Effect of biological, chemical and nuclear warfare. 6.3 Ecotoxicology & biomagnification. 6.4 Toxicovigilance. | 2 | 11 | 2 | 5 |
| 7 | Dermatological manifestations of visha/poisons. 7.1. Contact dermatitis and its management. 7.2. Signs and symptoms and management of abhyanga visha, lepa visha, vastra visha, paduka visha, abharana visha etc. with contemporary relevance. 7.3. Signs and symptoms and management of dermatological manifestations due to cosmetics, chemicals, occupational and other allergens. 7.4. Dermatological manifestation due to dooshivisha and garavisha. 7.5. Dermatological manifestation due to bites and stings. | 2 | | 6 | 2 |
| 8 | Therapeutic utility of Agada yoga 8.1 Dooshivishari agada 8.2 Bilwadi agada 8.3 Dashanga agada 8.4 Murvadi agada 8.5 Panchashirisha agada 8.6 Vishaghna mahakashaya (Charaka Samhita) 8.7 Ekasara gana (Sushruta Samhita) | 2 | | 1 | 0 |
| 9 | Sthavara visha – Poisons of Plant origin 9.1. Cardiac Poisons - Vatsanabha, Karaveera, Digitalis, Tobacco and Cerbera odollam. | 2 | 17 | 4 | 2 |

| | 9.2. Neurotoxic Poisons- Kupeelu, Ahiphena, Dhattura,Bhanga.9.3. Irritant Poisons - Jayapala, Gunja, Bhallataka, Arka,Snuhi, Langali. | | | | |
|----|---|---|----|----|---|
| 10 | Sthavara Visha – Poisons of Metallic origin 10.1. Arsenic. 10.2. Mercury. 10.3. Lead. 10.4. Copper | 2 | | 4 | 2 |
| 11 | Jangama Visha 11.1. Sarpa visha Loota visha Vrischika visha Vrischika visha and its contemporary relevance. 11.5. Alarka visha and its contemporary relevance. Keeta visha Vector borne diseases. | 2 | | 10 | 6 |
| 12 | Kritrima visha 12.1. Inorganic Acids – Sulphuric acid, Hydrochloric acid, Nitric acid. 12.2. Organic Acids - Oxalic acid, Carbolic acid, Formic acid. 12.3. Alkalies - Potassium hydroxide and Sodium hydroxide. 12.4. Asphyxiants – Carbon monoxide, Carbon dioxide. 12.5. Non-metallic poisons – Phosphorous, cyanide 12.6. Hydrocarbons – Kerosene. 12.7. Agrochemical Poisoning – Organo-phosphorus compounds, Carbamates, Organo-chlorine compounds, Aluminium phosphide. 12.8. Household poisons. | 3 | 12 | 2 | 0 |
| 13 | Substances of abuse 13.1. Madya and madatyaya, Alcoholism. 13.2. Addiction - Alcohol, Bhang, Opioids, Tobacco and Digital addiction. 13.3. Drugs of abuse- Lysergic acid diethylamide (LSD) and 3,4-Methylenedioxy methamphetamine (MDMA). | 3 | | 4 | 3 |

| | 13.4. Narcotic Drugs and Psychotropic Substances (NDPS) Act. | | | | |
|----|---|---|----|---|---|
| 14 | Agada Tantra perspectives on cancer14.1. Toxic carcinogens.14.2. Toxicities due to chemo and radiotherapy and itsAyurvedic approach.14.3. Agada and visha dravya prayoga in the prevention and management of cancer along with its research updates. | 3 | | 2 | 4 |
| 15 | Forensic medicine (Vyavahara Ayurveda) and Medical jurisprudence (Vidhi vaidyaka): 15.1 Forensic Medicine and Medical Jurisprudence. 15.2 Introduction to Indian Penal Code, Indian Evidence Act and Criminal Procedure Code. | 1 | 10 | 1 | 0 |
| 16 | Vaidya sadvritta : Duties and Responsibilities of medical practitioner 16.1 Vaidya sadvritta, medical ethics and code of conduct, Charaka oath and Hippocratic oath. 16.2 NCISM - constitution, objectives and functions. 16.3 Duties, rights and privileges of a registered medical practitioner. 16.4 Consent, professional secrecy and privileged communication. 16.5 Professional negligence, professional misconduct and unethical practices. 16.6 Defenses in medical negligence suits. 16.7 Medical records. 16.8 Consumer Protection Act. | 1 | | 6 | 4 |
| 17 | Legal Procedures 17.1. Courts and their powers 17.2. Inquest, evidence and witnesses 17.3. Court procedures: summons, oath, recording of evidence and conduct money. 17.4. Conduct of a medical professional in the court of law. | 1 | | 4 | 4 |
| | | | 1 | | |

| | 18.1. Identification data 18.2. Age 18.3. Race, religion, sex. 18.4. Moles, tattoos, scars, occupational marks & hairs. 18.5. Hand writing, dactylography, DNA typing and superimposition | | | | |
|----|--|---|----|---|---|
| 19 | Thanatology 19.1. Death 19.2. Signs of death. 19.3. Medicolegal autopsy and exhumation. 19.4. The Transplantation of Human Organs and Tissues Act (THOTA). | 2 | 12 | 6 | 2 |
| 20 | Asphyxial deaths 20.1. Hanging. 20.2. Strangulation and suffocation 20.3. Drowning. | 2 | | 4 | 2 |
| 21 | Injury 21.1. Basics of injury 21.2. Mechanical injury 21.3. Firearm injury 21.4. Thermal injury 21.5. Dowry death | 2 | | 5 | 3 |
| 22 | Pregnancy, delivery and abortion 22.1 Medico-legal aspects of pregnancy, delivery, infanticide and battered baby syndrome. 22.2 Abortion, Medical Termination of Pregnancy (MTP) Act and Pre-Conception and Pre-Natal Diagnostic Techniques (PCPNDT) Act. 22.3 Medico-legal aspects of artificial insemination and surrogacy. | 3 | 6 | 2 | 3 |
| 23 | Sexual offences 23.1. Rape 23.2. Medico-legal aspects of sexual offences 23.3. Protection of Children from Sexual Offences (POCSO) Act | 3 | | 2 | 1 |
| 24 | Forensic psychiatry. 24.1. Common symptoms associated with psychiatric disorders 24.2. Lucid interval | 3 | 7 | 2 | 2 |

| Tot | 26.5 The Occupational Safety, Health and Working Conditions Code, 2020 26.6 Employees State Insurance Act, 1948. 26.7 Rights of Person with Disability Act, 2016. al Marks | | 100 | 100 hr | 60 hr |
|-----|---|---|-----|--------|-------|
| 26 | Laws, Acts, Rules and Regulations 26.1 Clinical Establishments Act 26.2 State AYUSH registration board rules and regulations. 26.3 Medicare Service Persons and Medicare Service Institutions (Prevention of violence and damage or loss to property) Act, 2008. 26.4 Drugs and Cosmetics Act and Rules – Schedules related to poison. | 3 | | 3 | 2 |
| 25 | Forensic science laboratory 25.1. Hierarchy and major divisions of forensic lab services. 25.2. Newer techniques and recent advances - polygraphy, narcoanalysis, DNA profiling. | 3 | | 1 | 0 |
| | 24.3. Civil and criminal responsibilities of a mentally ill person24.4. Mental Health Act (MHA) | | | | |

| Paper 1 | | | | | | | | | |
|-------------------------|--|----------------------|--|--|-------------------------|--|---------------------------------------|------------|-------------------|
| A3 Course outcome | B3 Learning Objective (At the end of the session, the students should be able to) | C3 Doma in/sub | D3 Must to know / desirable to know / Nice to know | E3 Level Does/ Show s how/ Know s how/ Know | F3 T-L meth od | G3 Assessment (Refer abbreviations) | H3 Form ative/ summ ative | I3 Term | J3 Integration |
| Topic 1 Con | cepts of Agada Tantra (Clinical Toxicology) (Lecture :8 hour | rs, Non l | ecture: 1 hours) | | | | | | • |
| CO1 | Define Agada Tantra and Toxicology. Describe the scope of Agada Tantra in the present era. | СК | МК | К | L&PP T | T-EMI,T- EW | F&S | Ι | |
| CO1 | Define visha and poison. Enlist its synonyms. | СК | МК | К | L&PP T | T-EMI | F&S | Ι | |
| CO1 | Differentiate between poison, venom and toxin. | СК | МК | К | L,L& PPT | P-VIVA | F&S | I | |
| CO1 | Describe classification of visha & poison | СК | МК | К | L&PP T | T-EMI,P- VIVA | F&S | Ι | |
| CO1 | Describe sthavara and jangama visha adhisthana. | СК | МК | К | L&PP T | T- EW | F&S | Ι | |
| CO1 | Describe the routes of administration of poison. | СС | МК | К | L&PP T | T- EW,P- VIVA | F&S | Ι | |
| CO1 | Enlist visha guna and differentiate between visha, madya and oja | СК | МК | К | L&PP | T-EMI | F&S | Ι | |

| | guna. | | | | Т | | | | |
|-----------|---|----------|--------------|----|----------------------|-----------------------|-----|---|------|
| CO1 | Describe the mode of action of visha (visha gunanusar karma) & poison (Introduction to toxicokinetics). | CC | МК | КН | L,L& PPT,L &GD | T-EMI,T- EW | F&S | I | |
| CO1 | Describe the factors modifying the action of poison. | CC | МК | КН | L&PP T | T- EW | F&S | Ι | |
| CO1 | Describe vishavardhaka bhava and visha sankata. | CC | МК | КН | L&PP T | T-EMI,T- EW,P-VIVA | F&S | Ι | |
| CO1 | Describe visha vega & vegantara | СК | DK | К | L&PP T | T-EMI,P- VIVA | F&S | Ι | |
| CO1 | Describe sthavara visha veganusara lakshana and chikitsa | СК | МК | К | L,L& PPT | T-EMI | F&S | Ι | |
| CO1 | Describe vishapeeta and vishamukta lakshana. | СК | МК | К | L&G D | T-EMI,P- VIVA | F&S | Ι | |
| Topic 2 V | visha Chikitsa (Management of Poisoning) (Lecture :5 hours, No | n lectur | re: 4 hours) | | | | | | |
| CO2 | Describe the diagnosis of poisoning in living and dead. | CAP | МК | КН | L&PP T | T-EMI,T- EW,P-VIVA | F&S | Ι | |
| CO2 | Enumerate and discuss chaturvimshati upakrama | CC | МК | КН | L&PP T | T- EW,P- VIVA | F&S | Ι | |
| CO2 | Describe the general principles of managment of poisoning. | CAP | МК | КН | L&PP T | T-EMI,P- VIVA | F&S | Ι | V-KC |
| CO2 | Describe the duties of medical officer in case of suspected poisoning. | СК | МК | K | L&PP T | T-EMI,P- VIVA | F&S | Ι | |

| CO1,CO2,CO 3 | Explain the various sources of exposure of visha like anna, paana, vastra, abhyanga, lepa, paduka, abharana, etc. | СК | DK | K | L&PP T,L& GD | T- EW,CL- PR,M-CHT | F&S | I |
|-----------------|--|-----|----|----|------------------------------|---|-----|---|
| CO1,CO2,CO 3 | Describe the Ayurvedic methods of detection of food and beverages contaminated with visha. | CC | МК | КН | L&PP T,L_ VC,S DL,D | T- EW,P-VIV A,P-EXAM | F&S | I |
| CO1,CO2,CO 3 | Define adulteration, describe the methods of detection of adulterants and its relevance in Agada Tantra. | САР | DK | КН | L_VC ,SDL, PT | T- EW,P-VIV A,P- EXAM,OSPE ,RK | F&S | I |
| CO1,CO2,CO 3 | Describe the modern analytical techniques for the detection of poison (in contaminated articles) like chromatography, spectroscopy, etc. | CC | NK | KH | L&PP T,L& GD,L _VC | T- EW,P- VIVA,CL-PR | F&S | I |
| CO1,CO2,CO 3 | Define viruddha ahara and explain its types. | CC | МК | KH | L&PP T,L& GD,B S | T- EW,P- VIVA,INT | F&S | I |
| CO1,CO2,CO 3 | Discuss and illustrate the contemporary importance of viruddha ahara with examples | CAN | МК | КН | L&G D,BS, SDL | T- EW,QZ ,CL-PR | F&S | I |
| CO1,CO2,CO 3 | Discuss the application of concepts of viruddha ahara in the prevention and management of diseases. | CAP | МК | КН | L&G D,BS, SDL | T- EW,P-VIV A,CR-RED | F&S | I |
| CO1,CO2,CO 3 | Describe food poisoning, its types and management. | CC | МК | КН | L&PP T,L& | T- EW,P-VIV A,CR-RED | F&S | Ι |

| | | | | | GD,L _VC, CD | | | |
|-----------------|--|-----|----|----|-----------------------------|------------------------|-----|---|
| CO1,CO2,CO 3 | Discuss the clinical application of principles of Agada Tantra in the management of food poisoning. | САР | МК | КН | L&G D,BS, CBL, SDL | T- EW,P- VIVA,CL-PR | F&S | Ι |
| CO1,CO2,CO 3 | Describe the concept of amavisha. | CC | МК | КН | L&PP T,L& GD,L _VC | T- EW,P- VIVA | F&S | Ι |
| Topic 4 Gara | wisha and Dooshivisha (Lecture :7 hours, Non lecture: 2 hours | rs) | | - | | | | |
| CO1,CO3 | Describe the various definitions of garavisha. | СК | МК | K | L&PP T | T- EW | F&S | Ι |
| C01,C03 | Describe the clinical presentations of garavisha. | CC | МК | КН | L&PP T | T- EW | F&S | Ι |
| CO1,CO3 | Understand and explain the management principles of garavisha. | CC | МК | КН | L&PP T | T- EW | F&S | Ι |
| C01,C03 | Describe the various definitions of dooshivisha. | CC | МК | КН | L&PP T | T- EW | F&S | Ι |
| CO3 | Describe the clinical presentations of dooshivisha. | CC | МК | КН | L&PP T | T- EW | F&S | Ι |
| CO3,CO4 | Describe the principles of management of dooshivisha. | CC | МК | КН | L&PP T,DIS | T- EW,P-REC | F&S | I |
| CO3,CO4 | Discuss the application of the concept of dooshivisha and | CAP | МК | КН | L&G | P-VIVA | F&S | I |

| | garavisha and its management in day to day clinical practice. | | | | D | | | | |
|-----------------|---|--------|----------------|----------|---------------------------|----------------------------------|-----|---|------|
| CO3,CO5 | Discuss the recent research updates in the concept of garavisha and dooshivisha. | CAN | МК | КН | L&G D,PE R | P-VIVA,CL- PR | F&S | Ι | |
| CO1,CO3,CO 4 | Describe garavisha and dooshivisha as an etiology for the diseases of present era. | CAP | МК | КН | DIS,B S,FC | P-VIVA,CL- PR | F&S | Ι | |
| Topic 5 Visha | a Upadrava and diseases caused due to exposure to Visha/p | oisons | (Lecture :4 ho | urs, Non | lecture: | 2 hours) | | • | |
| CO1,CO3 | Describe visha upadrava. | СК | МК | К | L&PP T | T- EW,P- VIVA | F&S | Ι | |
| CO2,CO3,CO 4 | Define drug induced toxicity and discuss its Agada Tantra perspective. | CC | МК | КН | L&G D,L_ VC,B S | T- EW,T- OBT,P-VIVA | F&S | Ι | |
| CO2,CO3,CO 4 | Discuss the application of principles of Agada Tantra in drug induced hepatotoxicity, nephrotoxicity and neurotoxicity. | CAP | МК | КН | L&PP T,CB L | T- EW,P- VIVA,CL-PR | F&S | Ι | |
| CO2,CO3,CO 4 | Discuss various occupational poisons and their health hazards. | CC | МК | КН | L&PP T,PB L,SD L | T-OBT,P-VIV A,M-CHT,M- POS | F&S | Ι | H-SW |
| CO2,CO3,CO 4 | Discuss the application of principles of Agada Tantra in occupational diseases caused due to pollution, paints, pesticides, fertilizer and other chemicals. | CC | DK | КН | L&PP T,ML | QZ ,CL-PR,M- CHT,M-POS | F&S | Ι | |
| CO2,CO3,CO 4 | Define and discuss allergy, types of allergens and its understanding as per Ayurveda. | CC | МК | КН | L&PP T,DIS ,BS,C | INT,CR-RED | F&S | Ι | |

| | | | | | BL | | | | |
|-----------------|--|-----|----|----|------------------------------|----------------------------|-----|----|---|
| CO2,CO3,CO 4 | Discuss the application of the treatment principles of Agada Tantra in various allergic manifestations. | САР | MK | KH | L&G D,BS, CBL | T-EMI,P-VIV A,PRN,CL-PR | F&S | Ι | |
| CO2,CO3,CO 4 | Define and enlist endocrine disruptors and discuss its Agada Tantra perspectives. | CAP | DK | КН | L&PP T,DIS ,BS,C BL | CL-PR,M- CHT,COM | F&S | Ι | |
| Topic 6 Envi | ronmental Toxicology (Lecture :2 hours, Non lecture: 5 hours |) | | | • | | • | | - |
| CO4,CO5 | Define environmental toxicology. | СК | DK | К | L&PP T,DIS | PRN,M-POS | F&S | II | |
| CO3,CO4,CO 5 | Describe the lakshanas and chikitsa of vishakta bhoomi, vishakta jala, and vishakta vayu. | СК | DK | К | L&PP T | P-VIVA,P- MOD | F&S | Π | |
| CO4,CO5 | Define pollution. Describe various pollutants and explain water pollution, soil pollution, air pollution, along with their health hazards. | СК | DK | КН | L&PP T,BS | T- EW,T-CS,P RN,P-MOD | F&S | II | |
| CO4,CO5 | Describe the health effects of biological, chemical and nuclear warfare. | СК | NK | К | L&G D,SD L | PRN,QZ | F&S | II | |
| CO4,CO5 | Define ecotoxicology & biomagnification. | СК | NK | КН | L&G D,SD L | PRN,CL-PR | F&S | II | |
| CO4,CO5 | Explain the concept of toxicovigilance | CC | DK | К | FC,S DL | P-POS,CL- PR,CR-RED | F | II | |

| CO3,CO4 | Describe the clinical presentations and diagnosis of paduka visha, abharana visha, vastra visha, lepa visha, abhyanga visha, etc. | САР | MK | КН | L&PP T,DIS ,CBL, CD | T- EW,P- CASE,CL-PR | F&S | II | |
|--------------|--|---------|----|----|-------------------------------|-----------------------------------|-----|----|--|
| CO3,CO4 | Discuss the management of paduka visha, abharana visha, vastra visha, lepa visha, abhyanga visha, etc. | CAN | МК | КН | L&PP T,DIS ,CBL, PER | T- EW,P-EXA M,P- CASE,CL-PR | F&S | II | |
| CO3,CO4 | Describe contact dermatitis and its types. | СК | МК | K | L&PP T | T- EW,P- VIVA | F&S | Π | |
| CO3,CO4 | Discuss the application of treatment principles of Agada Tantra in the contact dermatitis. | CAP | МК | КН | L&PP T,CB L | P-VIVA,P- CASE,CL-PR | F&S | II | |
| CO3,CO4 | Discuss the dermatological conditions caused due to garavisha and dooshivisha. | CAP | МК | КН | L&PP T,DIS ,CBL, CD | T- EW,P-VIV A,P-CASE | F&S | Π | |
| CO3,CO4 | Discuss the application of principles of treatment of garavisha and dooshivisha in the management of dermatological manifestations. | CAP | МК | КН | L&PP T,DIS ,CBL | P-VIVA,P- CASE,CL-PR | F&S | II | |
| CO3,CO4 | Discuss the daignosis and application of the treatment principles of Keeta visha in dermatological manifestations due to bites & stings. | CAP | МК | КН | L&PP T,DIS ,CBL, SDL | T- EW,P-VIV A,P-CASE,CL- PR | F&S | II | |
| Topic 8 Ther | rapeutic utility of Agada yoga (Lecture :1 hours, Non lecture: | 0 hours | 3) | | | | | | |
| C01,C02,C0 | Enlist ingredients and discuss the therapeutic utility of | CAP | MK | KH | L&PP | T- EW,P- | F&S | II | |

| 3,CO4 | Doohivishari Agada, Bilwadi Agada, Dashanga Agada, Murvadi agada and Panchashririsha Agada. | | | | T,DIS ,CBL | CASE | | | |
|---------------------|---|-----------|----------|----|-----------------------------|-------------------------------------|-----|----|--|
| CO1,CO2,CO 3,CO4 | Enlist and discuss the ingredients of vishaghna mahakashaya (Charaka Samhita) and ekasara gana (Sushruta Samhita). | САР | МК | КН | L&PP T,BS, CBL, FC | T- EW,P- VIVA | F&S | Π | |
| Topic 9 Stha | vara visha – Poisons of Plant origin (Lecture :4 hours, Non l | ecture: 2 | 2 hours) | • | | | | | |
| CO2,CO4,CO 6 | Describe the active principles, mode of action, fatal dose, fatal period, signs and symptoms, management, post-mortem appearance and medicolegal aspects of vatsanabha. | CAP | MK | КН | L&PP T | T- EW,P- VIVA,P-ID | F&S | п | |
| CO2,CO4 | Mention therapeutic dose and enlist two important formulations of vatsanabha. | СК | NK | К | L | T-EMI,P-VIV A,P-EXAM | F&S | Π | |
| CO2,CO4,CO 6 | Describe the active principles, mode of action, fatal dose, fatal period, signs and symptoms, management, post-mortem appearance and medicolegal aspects of karaveera. | CAP | МК | К | L&PP T | T- EW,P- VIVA,P-ID | F&S | II | |
| CO2,CO4 | Mention therapeutic dose and enlist two important formulations of karaveera. | СК | NK | К | L | T- EW,T- ME Qs,P-VIVA,P- EXAM | F&S | П | |
| CO2,CO6 | Describe mode of action, fatal dose, fatal period, signs and symptoms, management, post-mortem appearance and medicolegal aspects of digitalis. | CAP | NK | К | L&PP T | T- EW,P- VIVA | F&S | П | |
| CO2,CO6 | Describe mode of action, fatal dose, fatal period, signs and symptoms, management, post-mortem appearance and medicolegal aspects of tobacco. | СК | МК | K | L&PP T | T- EW,P-ID | F&S | П | |
| CO2,CO6 | Describe mode of action, fatal dose, fatal period, signs and symptoms, management, post-mortem appearance and | СК | DK | К | L&PP T | T- EW | F&S | II | |

| | medicolegal aspects of Cerbera odollam. | | | | | | | |
|-----------------|---|----|----|----|-----------|----------------------------------|-----|----|
| CO2,CO4,CO 6 | Describe the active principles, mode of action, fatal dose, fatal period, signs and symptoms, management, post-mortem appearance and medicolegal aspects of Kupeelu. | СК | МК | КН | L&PP T | T- EW,P- VIVA,P-ID | F&S | П |
| CO2,CO6 | Mention therapeutic dose and enlist two important formulations of kupeelu. | СК | NK | K | L | T-EMI | F&S | II |
| CO2,CO4,CO 6 | Describe the active principles, mode of action, fatal dose, fatal period, signs and symptoms, management, post-mortem appearance and medicolegal aspects of ahiphena. | СК | МК | КН | L&PP T | T- EW,P- VIVA,P-ID | F&S | П |
| CO2,CO6 | Mention therapeutic dose and enlist two important formulations of ahiphena. | СК | NK | K | L | T-EMI | F&S | II |
| CO2,CO4,CO 6 | Describe the active principles, mode of action, fatal dose, fatal period, signs and symptoms, management, post-mortem appearance and medicolegal aspects of dhatura. | СК | МК | КН | L&PP T | T- EW,P- VIVA,P-ID | F&S | II |
| CO2,CO6 | Mention therapeutic dose and enlist two important formulations of dhatura. | СК | NK | К | L | T-EMI | F&S | II |
| CO2,CO4,CO 6 | Describe the active principles, mode of action, fatal dose, fatal period, signs and symptoms, management, post-mortem appearance and medicolegal aspects of Bhanga. | СК | МК | К | L&PP T | T- EW,P-VIV A,P-EXAM,P- ID | F&S | II |
| CO2,CO6 | Mention therapeutic dose and enlist two important formulations of bhanga. | СК | NK | K | L | T-EMI | F&S | II |
| CO2,CO4,CO 6 | Describe the active principles, mode of action, fatal dose, fatal period, signs and symptoms, management, post-mortem appearance and medicolegal aspects of jayapala. | СК | МК | К | L&PP T | T- EW,P- VIVA,P-ID | F&S | П |
| CO4 | Mention therapeutic dose and enlist two important formulations | CK | NK | K | L | T-EMI,P- | F&S | II |

| | of jayapala. | | | | | EXAM | | | |
|-----------------|--|----------|---------------|----|-------------------|-----------------------------|-----|----|--|
| CO2,CO4,CO 6 | Describe the active principles, mode of action, fatal dose, fatal period, signs and symptoms, management, post-mortem appearance and medicolegal aspects of gunja. | CAP | DK | КН | L&PP T | T- EW,P- VIVA,P-ID | F&S | II | |
| CO4 | Mention therapeutic dose and enlist two important formulations of gunja. | СК | NK | КН | L | T- EW,P-VIV A,P-EXAM | F&S | II | |
| CO2,CO4,CO 6 | Describe the active principles, mode of action, fatal dose, fatal period, signs and symptoms, management, post-mortem appearance and medicolegal aspects of bhallataka. | CAP | МК | КН | L&PP T | T- EW,P- VIVA,P-ID | F&S | II | |
| CO4 | Mention therapeutic dose and enlist two important formulations of bhallataka. | СК | NK | К | L | T-EMI,P-VIV A,P-EXAM | F&S | II | |
| CO2 | Describe the active principles, mode of action, fatal dose, fatal period, signs and symptoms, management, post-mortem appearance and medicolegal aspects of arka and snuhi. | СК | DK | К | L&PP T | T- EW,P- VIVA | F&S | II | |
| CO2,CO4,CO 6 | Describe the active principles, mode of action, fatal dose, fatal period, signs and symptoms, management, post-mortem appearance and medicolegal aspects of langali. | СК | NK | К | L&PP T | T- EW,P- VIVA,P-ID | F&S | II | |
| Topic 10 Sth | avara Visha – Poisons of Metallic origin (Lecture :4 hours, N | Non lect | ure: 2 hours) | | • | | | | |
| CO2 | Describe the mode of action, fatal dose, fatal period, signs and symptoms, management, post-mortem appearance, medicolegal aspects of acute poisoning of 1. Arsenic 2. Mercury 3. Lead 4. Copper | СК | MK | K | L&PP T,PB L | T-EMI,T- MEQs,P- VIVA | F&S | Π | |

| | Write its therapeutic dose and enlist any four important formulations. | | | | | | | |
|-----------------|---|-----|----|----|------------------------------|----------------------------------|-----|----|
| CO1,CO2 | Discuss the Ayurvedic concepts for the diagnosis and management of chronic heavy metal toxicity. | CC | DK | K | L&PP T,L& GD | T-EMI,T- MEQs,P- VIVA | F&S | Ш |
| CO2,CO3,CO 4 | Discuss the toxicological implications of improperly prepared medicines with special reference to those containing metals, minerals and poisonous substances. | САР | NK | КН | L&PP T,CB L,FC | P-VIVA | F&S | Ш |
| Topic 11 Jan | gama Visha (Lecture :10 hours, Non lecture: 6 hours) | | | | | | | |
| CO2,CO5 | Describe sarpa bheda and ennumerate the indentification features of darvikara, mandali and rajimantha sarpa. | CAP | МК | КН | L&PP T,BS, CBL | T- EW,P-VIV A,P-EXAM | F&S | П |
| CO2,CO5 | Classify snakes and describe the features of venomous and non venomous snakes and identify their bites. | CAN | МК | K | L&PP T | T- EW,P-VIV A,P-EXAM | F&S | II |
| CO2,CO5 | Describe the fatal dose, fatal period, signs and symptoms of common cobra, king cobra, russel's viper, saw scaled viper, pit vipers and common krait. | CAN | МК | КН | L&PP T,DIS ,BS,C BL | T- EW,T-CS,P -VIVA,P- EXAM | F&S | Π |
| | Describe the samanya lakshana and samanya chikitsa of darvikara, mandali and rajimanth sarpa damsha. | СК | МК | K | L | T-EMI | F&S | II |
| CO2,CO5 | Describe the management of snake bites according to recent WHO snake bite management guidelines. | CAN | МК | КН | L&PP T,CB L,PE R,CD | T- EW,P-VIV A,P-EXAM | F&S | П |
| CO2,CO5 | Describe the classification, diagnosis, samanya lakshana and chikitsa of lootavisha with its contemporary aspects. | CAN | МК | КН | L&PP T,CB | T- EW,P- VIVA | F&S | II |

| | | | | 1 | L | | | | |
|------------|---|-----|----|----|----------------------|-------------------------|-----|-----|--|
| CO2,CO5 | Describe the classification, diagnosis, samanya lakshana and chikitsa of vrischika damsha (Scorpion Sting) along with its contemporary aspects. | СК | МК | К | L&PP T,CB L,CD | T- EW,P-VIV A,P-EXAM | F&S | Π | |
| CO2,CO4 | Describe leptospirosis and rat bite fever with special reference to mushika visha. | СК | NK | K | L,CB L | T- EW | F&S | II | |
| CO2,CO5 | Describe rabies and its management with special reference to alarka visha. | СК | DK | КН | L&G D,CB L | T- EW,P- VIVA | F&S | Π | |
| CO2,CO5 | Describe the classification of keeta, samanya sakshana and chikitsa of keeta damsha with special importance to regional prevalence. | CAN | DK | КН | L&PP T,CB L | T- EW | F&S | Π | |
| CO2,CO5 | Discuss the application of visha chikitsa in vector borne diseases like chikungunya, dengue and malaria. | CAP | DK | KH | L&PP T,DIS | P-VIVA | F&S | II | |
| Topic 12 K | ritrima visha (Lecture : 2 hours, Non lecture: 0 hours) | 1 | , | 1 | 7 | | | | |
| CO2 | Describe the action of poison, fatal dose, fatal period, signs and symptoms, management, post mortem appearance and medico legal aspects of Inorganic acids - Sulphuric acid, Hydrochloric acid and Nitric Acid | СК | МК | КН | L&PP T,PE R | T- EW,P-VIV A,P-EXAM | F&S | III | |
| | Organic acids - Oxalic acids, Carbolic acids and Formic acid | | | | | | | | |
| | Alkalies | | | | | | | | |
| CO2 | Describe the action of poison, fatal dose, fatal period, signs and | СК | DK | КН | L&PP T,PE | T- EW,P- VIVA | F&S | III | |

| | symptoms, management, post mortem appearance and medico legal aspects of | | | | R | | | | |
|-----------------|---|-----|----|----|-------------------|---------------------------------|-----|-----|--|
| | Asphyxiants - CO and CO2 | | | | | | | | |
| | Non Metal - Phosphorous | | | | | | | | |
| | Hydrocarbon - Kerosene | | | | | | | | |
| CO2 | Describe the action of poison, fatal dose, fatal period, signs and symptoms, management, post mortem appearance and medico legal aspects of agrochemical poisons- organophosphorous compounds, carbamates, organochlorine compounds and aluminium phosphide and enlist the household poisons. | САР | МК | SH | L&PP T,PB L | T- EW,P-VIV A,P-EXAM | F&S | Ш | |
| Topic 13 Sub | stances of abuse (Lecture :4 hours, Non lecture: 3 hours) | ł | | | | | | | |
| CO1,CO2 | Define Mada and describe its stages. | СК | МК | K | L&PP T | T-EMI,T- MEQs,P- VIVA | F&S | III | |
| CO1,CO2 | Describe the types of madatyaya along with its management. | СК | МК | К | L&PP T | T-EMI,T- MEQs,P- VIVA | F&S | III | |
| CO1,CO2,CO 6 | Describe mode of action, fatal dose, fatal period, signs and symptoms, management, post mortem appearance and medicolegal importance of acute ethanol poisoning. | CC | МК | КН | L&PP T | T-EMI,T-CS, T-OBT,P- VIVA | F&S | III | |
| CO1,CO2,CO 6 | Describe mode of action, fatal dose, fatal period, signs and symptoms, management, post mortem appearance and medicolegal importance of acute methanol poisoning. | CC | МК | К | L&PP T | T-EMI,T- MEQs,P- VIVA | F&S | III | |
| CO2,CO4 | Discuss the application of principles of Ayurveda in the | CC | МК | КН | L&G | T- EW,P- | F&S | III | |

| | management of chronic alcoholism. | | | | D,BS | VIVA | | | |
|-------------|--|----------|--------|----|--------------------------|--|-----|-----|--|
| CO2,CO4 | Discuss the signs & symptoms of alcohol withdrawal with its Ayurvedic approach. | CC | МК | КН | L&G D,BS, IBL | T- EW,P- VIVA | F&S | Ш | |
| CO2,CO4 | Discuss the signs & symptoms of withdrawal of bhang (cannabis), ahiphena/opium and its derivatives, tobacco, LSD and MDMA with its Ayurvedic approach. | CC | МК | КН | L&G D,BS, TUT | T- EW,P- VIVA | F&S | ш | |
| CO2,CO4 | Discuss the reseach updates in Ayurveda in the management of conditions due to substances of abuse. | CC | МК | КН | L&G D | T-EMI,T- ME Qs,T-CRQs,P- VIVA | F&S | III | |
| CO7 | Describe the NDPS Act. | СК | DK | К | L&PP T | T- EW | F&S | III | |
| Topic 14 Ag | gada Tantra perspectives on cancer (Lecture :2 hours, Non le | cture: 4 | hours) | • | • | • | | | |
| CO2,CO4 | Discuss the concepts of Agada Tantra in oncology. | CC | МК | КН | L&G D,BS, PBL | T-EMI,T- MEQs,P- VIVA | F&S | III | |
| CO1,CO2 | Enlist the cancer causing toxic chemicals / substances (toxic carcinogens) and describe the process of mutation in genes and carcinogenesis. | CC | МК | К | L&G D | T-EMI,T- ME Qs,T-CRQs,P- VIVA,SA | F&S | III | |
| CO2,CO4 | Describe the chemotherapy induced common toxicities and Ayurvedic approach for its management. | CC | МК | КН | L&PP T,PB L | T-EMI,T- ME Qs,T-CRQs,P- VIVA,SA | F&S | III | |
| CO2,CO4 | Describe the radiotherapy induced common toxicity and Ayurvedic approach for its management. | CC | МК | КН | L&G D,PB L,SD L | T-EMI,T- ME Qs,T-CRQs,P- VIVA | F&S | III | |

| CO2,CO4 | Discuss the role of visha and vishaghna dravya in the management of cancer along with its research updates. | CC | DK | кн | L&G D,BS | T-EMI,T- ME Qs,T-CRQs,P- VIVA | F&S | Ш | |
|-----------------|--|--------|------------------|----------|-------------------------------|-------------------------------------|-----------|-------|--|
| Topic 15 For | ensic medicine (Vyavahara Ayurveda) and Medical jurispro | ıdence | (Vidhi vaidyak | a): (Leo | cture :1 | hours, Non lectu | ure: 0 ho | ours) | |
| CO1,CO6,CO 7 | Define Forensic Medicine & Medical Jurisprudence. Give an introduction to Indian Penal Code (IPC), Criminal Procedure Code (CrPC) and Indian Evidence Act (IEA). | CC | МК | КН | L&G D | T- EW,P- VIVA,QZ | F&S | Ι | |
| Topic 16 Vai | dya sadvritta : Duties and Responsibilities of medical practi | tioner | (Lecture :6 hour | rs, Non | lecture: | 4 hours) | | | |
| CO1,CO6,CO 7 | Describe vaidya sadvritta, medical ethics, code of conduct, Charaka oath and Hippocratic oath. | СК | МК | K | L&PP T,L& GD,B S,PER | T- EW,P- VIVA | F&S | Ι | |
| CO1,CO6,CO 7 | Desribe the constitution, objectives and functions of NCISM. | СК | МК | К | L&PP T,DIS | T- EW,P- VIVA | F&S | Ι | |
| CO6,CO7 | Describe the duties and rights and privileges of a registered medical practitioner. | СК | МК | К | L&PP T,DIS | T- EW,P- VIVA | F&S | Ι | |
| CO1,CO6,CO 7 | Describe consent, professional secrecy and privileged communication. | CC | MK | К | L&PP T,BS | T- EW | F&S | Ι | |
| CO1,CO6,CO 7 | Describe professional negligence, professional misconduct and unethical practices. | CC | МК | К | L&G D,CB L,PE R | T- EW,P- VIVA | F&S | I | |
| CO6,CO7 | Explain the defenses in medical negligence suits with appropriate case laws. | CAP | МК | К | L&PP T,L& GD,B | T- EW,P- VIVA | F&S | Ι | |

| | | | | | S,CB L | | | | |
|-----------------|--|----|----|----|----------------------------|------------------------|-----|---|--|
| CO6,CO7 | Describe the maintainance of medical records and explain its significance. | CC | МК | K | L,FV | T- EW,P- VIVA | F&S | Ι | |
| CO7 | Describe the Consumer Protection Act. | СК | МК | K | L&PP T | T- EW,P- VIVA | F&S | Ι | |
| Topic 17 Leg | al Procedures (Lecture :4 hours, Non lecture: 4 hours) | | · | • | | | | • | |
| CO1,CO6,CO 7 | Describe the types of courts along with their powers. Describe - Inquest, Evidence, Witness, Summons, Conduct money and procedure of recording of evidence in a court of law. Describe the conduct of a medical professional in the court of law. | CC | МК | КН | L&PP T,DIS ,SDL | T- EW,P- VIVA,CL-PR | F&S | I | |
| Topic 18 Per | sonal identity (Lecture :2 hours, Non lecture: 2 hours) | | · | · | · | · | • | | |
| CO1,CO6 | Define identification and enlist the identification data. Describe the method of estimation of age based on Teeth, ossification of bones, secondary sexual characteristics and general development. | CC | DK | КН | L&PP T,L_ VC,D IS | T- EW,P- VIVA | F&S | I | |
| CO1,CO6 | Describe the medico-legal importance of age, tattoo marks and occupational marks. | СК | DK | К | L&PP T | T- EW | F&S | Ι | |
| CO1,CO6 | Describe the medico-legal importance of race, religion, sex, moles and hair. | CC | DK | КН | L_VC ,DIS, EDU | P-VIVA | F | Ι | |
| CO1,CO6 | Describe the medico-legal importance of handwriting, dactylography, DNA typing and superimposition as an identification data. | СК | NK | K | L,ED U | T- EW | F | Ι | |

| CO6 | Define death and describe the stages and modes of death. Explain the immediate changes following death. | CC | МК | КН | L&PP T,L& GD,L _VC | T- EW,P- VIVA | F&S | п |
|----------|---|----|----|----|------------------------------------|---------------------------|-----|-----|
| CO6 | Enlist and explain the early changes following death. Describe Algor mortis, rigor mortis and livor mortis with regards to their definition, mechanism, modifying factors and medico legal importance. | CC | MK | КН | L&PP T,L_ VC,D IS,SI M | T- EW,P- VIVA | F&S | Π |
| CO6 | Enlist the late changes following death and describe the definition, modifying factors and medico legal importance of putrefaction, mummification and adipocere formation. | CC | МК | КН | L&PP T,L_ VC,D IS | T- EW,P- VIVA | F&S | II |
| CO6 | Define Autopsy and describe its types, its objectives, rules and procedure along with exhumation. | CC | МК | KH | L&PP T,L_ VC | T- EW,P- VIVA | F&S | II |
| CO6 | Describe the Transplantation of Human Organs and Tissues Act. | CC | NK | КН | BS,S DL,P ER | T- EW,P- VIVA | F | II |
| Topic 20 | Asphyxial deaths (Lecture :4 hours, Non lecture: 2 hours) | | 1 | 1 | 1 | 1 | | 1 I |
| CO6 | Define hanging. Describe its classification, causes of death, post- mortem appearances and medico-legal aspects. | СК | МК | KH | L&PP T,DIS | T- EW,T- ME Qs,T-CS,P- | F&S | II |

| | | | | | | VIVA,P-MOD | | | |
|-------------|--|---------|-----|---|----------------------|----------------------------------|-----|-----|--|
| CO6 | Define strangulation and suffocation. Enlist their classification, post-mortem appearances and medico-legal aspects. | СК | MK | К | L&PP T,D- M | T- EW,T- ME Qs,PRN,M- MOD | F&S | Π | |
| CO6 | Define Drowning, explain its classification, post-mortem appearances and medico-legal aspects. | СК | МК | К | L&PP T,L_ VC | T- EW,P-VIV A,PRN,P- CASE | F&S | Π | |
| Topic 21 In | njury (Lecture :5 hours, Non lecture: 3 hours) | | • | • | | | | | |
| CO6 | Define and classify Injuries. Describe the medico-legal aspects of injuries. | СК | МК | К | L&G D | T- EW | F&S | II | |
| CO6 | Describe the characteristics, age and medico-legal aspects of mechanical injuries. | СК | МК | K | L&PP T | T- EW | F&S | II | |
| CO6 | Describe firearm injuries, its characteristics and medico-legal aspects. Differentiate between entry and exit wound | СК | DK | K | L&PP T | T- EW | F&S | II | |
| CO6 | Define and classify thermal injury. Describe charecterstics and degrees of burns, rule of nine, post-mortem appearances, and medico-legal aspects. | СК | DK | К | L&G D | T- EW | F&S | Π | |
| CO6 | Explain medico-legal aspects of dowry death. | СК | NK | К | L&G D | T- EW | F&S | II | |
| Topic 22 P | regnancy, delivery and abortion (Lecture :2 hours, Non lecture | : 3 hou | rs) | | · | | • | | |
| CO6,CO7 | Define pregnancy, delivery, infanticide and battered baby syndrome along with their medico legal aspects. | СК | MK | К | L,L& PPT,L &GD | T- EW,T-CS,P -VIVA,P- EXAM | F&S | III | |
| CO6,CO7 | Define and classify abortion, MTP Act and PCPNDT Act. | СК | МК | K | L&PP T,D- | T- EW,T- ME Qs,T-CS,P- | F&S | III | |

| | | | | | M,D | VIVA,PRN | | | |
|-------------|--|------|----|----|-------------------|---------------------------------|-----|-----|--|
| CO6,CO7 | Describe Surrogacy (Regulation) Act 2021 and the Assisted Reproductive Technology (Regulation) Act 2021. | СК | NK | КН | L,L& PPT | P-VIVA,O-QZ | F&S | III | |
| Topic 23 Se | exual offences (Lecture :2 hours, Non lecture: 1 hours) | | | | | | | | |
| CO6 | Describe classification of sexual offences. | СК | NK | КН | L&PP T | P-VIVA,PRN, QZ | F&S | III | |
| CO6 | Define rape. Describe the examination of rape victim and accused and its medico legal aspects. | СК | МК | КН | L&PP T,CB L | T- EW,P-VIV A,P- EXAM,PRN | F&S | III | |
| CO6 | Define the un-natural sexual offences and sexual perversion with their medico-legal aspects and give introduction to POCSO Act. | СК | NK | К | L&PP T,CB L | P-VIVA,QZ | F&S | III | |
| Topic 24 F | orensic psychiatry. (Lecture :2 hours, Non lecture: 2 hours) | | | • | • | • | | | |
| CO6 | Describe the symptoms commonly associated with psychiatric disorders & the significance of lucid interval. | СК | DK | K | L&PP T,TU T | T-EMI,T- EW,P-VIVA | F&S | III | |
| CO6,CO7 | Describe the civil and criminal responsibilities of a mentally ill person. | СК | DK | К | L&PP T | T- EW,P- VIVA | F&S | III | |
| CO6 | Describe Mental Health Act | СК | NK | К | SDL, PER | T- EW,P- VIVA | F&S | III | |
| Topic 25 Fe | orensic science laboratory (Lecture :1 hours, Non lecture: 0 hours) | urs) | 1 | • | | | • | | |
| CO6 | 25.1. Hierarchy and major divisions of forensic lab services. | СК | DK | K | L&PP T,ML | T-OBT,P- VIVA | F&S | III | |
| | 25.2. Newer techniques and recent advances - polygraphy, | | | | | | | | |

| | narcoanalysis, DNA profiling. | | | | | | | | |
|-------------|---|-----------|-----|---|-----------------------|------------------------|-----|-----|---|
| Topic 26 La | ws, Acts, Rules and Regulations (Lecture :3 hours, Non lecture) | re: 2 hou | rs) | • | • | • | | • | • |
| CO6,CO7 | Describe the 1. NCISM Rules and Regulations in force. 2. Clinical Establishments Act. 3. Medicare Service Persons and Medicare Service Institutions (Prevention of violence and damage or loss to property) Act, 2008. 4. The Drug and Cosmetic Act - schedules related to poison. 5. Rules and Regulations related to AYUSH State Registration Boards of concern state. | СК | DK | K | L&PP T,DIS ,SDL | T- EW,P- VIVA,CL-PR | F&S | III | |

List of Practicals (Term and Hours)

| PRACTICALS (Marks-100) | | | | | | | | | |
|------------------------|---|------|-------|--|--|--|--|--|--|
| S.No | List of Topics | Term | Hours | | | | | | |
| 1 | Visha Chikitsa | 1 | 6 | | | | | | |
| 2 | Vishakta Ahara Pariksha | 1 | 6 | | | | | | |
| 3 | Dooshivisha, Garavisha, Visha Upadrava | 1 | 20 | | | | | | |
| 4 | Dermatological manifestation of visha | 2 | 20 | | | | | | |
| 5 | Environmental toxicology | 2 | 2 | | | | | | |
| 6 | Jangama Visha | 2 | 10 | | | | | | |
| 7 | Sthavara visha | 2 | 6 | | | | | | |
| 8 | Substance abuse | 3 | 8 | | | | | | |
| 9 | Legal Procedures | 1 | 2 | | | | | | |
| 10 | Vaidya Sadvritta | 1 | 2 | | | | | | |
| 11 | Personal Identity | 1 | 4 | | | | | | |
| 12 | Thanatology | 2 | 6 | | | | | | |
| 13 | Injury | 2 | 6 | | | | | | |
| 14 | Sexual offences | 3 | 2 | | | | | | |
| 15 | Field Visits (Field visits should be integrated along with the educational tour conducted by Dravyagunavijnan, Rasasatra and Swasthavrutha Departments) | 2 | 30 | | | | | | |
| 16 | Topics related to regional preference | 3 | 10 | | | | | | |

Table 4: Learning objectives (Practical)

| A4 | B4 | C4 | D4 | E4 | F4 | G4 | H4 | I4 | K4 |
|---------------|--|-------------|--|----------------------------|------------|--------------------------|-------------------------|----------|----------|
| Course | Learning Objective (At the end of the session, the students | Doma | Must to know | Level | T-L | Assessment | Form | Term | Integr |
| outcome | should be able to) | in/sub | / desirable to know / Nice to know | Does/ Show s how/ | meth od | (Refer abbreviations) | ative/ summ ative | | ation |
| | | | | Know s how/ Know | | | | | |
| Topic 1 Visha | A Chikitsa | | | KIIOW | | | | | <u> </u> |
| - | | a.r | | au | | | T 0.0 | | 1 |
| CO2 | Demonstrate the procedure of gastric lavage on mannequin. | CAP | МК | SH | D- M,D | P-EXAM,P- PRF,OSPE | F&S | Ι | |
| CO2 | Demonstrate the procedure of CPR on mannequin. | PSY- MEC | МК | D | D- M,D | P-EXAM,P- PRF,OSPE | F&S | Ι | |
| CO2 | Observe the differrent procedures for removal of absorbed poison. | CC | МК | КН | L_VC ,D | P-VIVA | F&S | I | |
| Topic 2 Visha | akta Ahara Pariksha | | | | | | | | |
| CO2 | Demonstrate adulteration detection test for urea in milk, boric acid in milk, artificial colour in turmeric, pulses and vegetables as per recent Food Safety and Standards Authority of India (FSSAI) guidelines. | PSY- SET | МК | D | D_L | P-PRF,RK | F&S | Ι | |
| CO2 | Demonstrate adulteration detection test for argemone oil in mustard oil and adulterants in Honey as per recent FSSAI guidelines. | PSY- SET | МК | D | D_L | P-PRF,RK | F&S | Ι | |
| Topic 3 Doos | hivisha, Garavisha, Visha Upadrava | | 1 | 1 | <u> </u> | 1 | <u> </u> | <u> </u> | |

| CO3,CO4 | Diagnosis and management of diseases due to garavisha, dooshivisha and visha upadrava - drug induced toxicities. | CAP | МК | SH | L_VC ,CBL, SIM, CD | SP,OSCE ,RK | F&S | Ι | |
|-------------|--|-----|----|----|-------------------------------------|-------------|-----|----|---|
| CO3,CO4 | Diagnosis and management of diseases due to garavisha, dooshivisha and visha upadrava - occupational hazards. | САР | МК | КН | L_VC ,PBL, CBL, SIM, CD | OSCE ,RK | F&S | п | |
| CO3,CO4 | Diagnosis and management of diseases due to garavisha, dooshivisha and visha upadrava - allergic manifestations. | САР | МК | КН | L_VC ,PBL, CBL, SIM, CD | OSCE ,RK | F&S | Ι | |
| CO3,CO4 | Diagnosis and management of diseases due to garavisha, dooshivisha and visha upadrava - autoimmune diseases | CAP | МК | КН | L_VC ,CBL, CD | OSCE ,RK | F&S | Ι | |
| CO3,CO4 | Diagnosis and management of diseases due to garavisha, dooshivisha and visha upadrava - endocrine disruptors induced diseases. | CAP | MK | КН | L_VC ,CBL, CD | OSCE ,RK | F&S | Ι | |
| Topic 4 Der | matological manifestation of visha | | | | | | | • | • |
| CO3,CO4 | Diagnosis and Management of Dermatological manifestations due to visha ex: contact poisoning (paduka visha, abharana visha etc.) | CAN | MK | SH | L_VC ,CBL, CD | OSCE ,RK | F&S | II | |
| CO3,CO4 | Diagnosis and management of dermatological manifestations due to visha - bites and stings. | CAP | МК | КН | L_VC ,CBL, CD | OSCE ,RK | F&S | II | |

| CO3,CO4 | Diagnosis and Management of contact dermatitis based on the principles of Agada Tantra. | САР | МК | КН | L_VC ,CBL, CD | OSCE ,RK | F&S | II |
|-------------|--|-------------|----|----|----------------------------------|-------------------------------|-----|----|
| Topic 5 En | vironmental toxicology | | | · | • | | • | |
| CO5 | Social Awareness program related to environmental toxicology – Rally, street play, skit etc | AFT- VAL | DK | SH | RP | P-VIVA,M- CHT | F | Ш |
| Topic 6 Jar | ngama Visha | | | • | | | • | |
| CO2,CO4 | Demonstrate identification of poisonous and non poisonous snakes. | CAN | МК | КН | L&G D,L_ VC,D- M,FV | P-VIVA,P- EXAM,OSCE | F&S | II |
| CO2,CO4 | Demonstration of the diagnosis of poisonous snake bite cases based on local and systemic clinical presentations. | CAP | МК | КН | L&G D,L_ VC,C BL,C D | P-VIVA,P- EXAM,RK | F&S | П |
| CO2,CO4 | Demonstration of identification of vrishchika, loota and keeta based on regional prevalence and their diagnosis based on clinical presentations. | САР | МК | КН | L&G D,L_ VC,C BL,C D | P-VIVA,P- EXAM,RK | F&S | II |
| Topic 7 Sth | avara visha | | | · | | | | |
| CO2 | Demonstration of Identification of vatsanabha, karaveera and tobacco with their respective toxic parts. | CAN | МК | КН | D- M,D | P-VIVA,P- EXAM,OSPE ,RK | F&S | П |
| CO2 | Demonstration of Identification of kupeelu, dhattura and bhanga | CAN | МК | KH | D | P-VIVA,P- | F&S | II |

| | and their respective toxic part. | | | | | EXAM,OSPE ,RK | | | |
|-------------|---|-------------|----|----|--------------|-------------------------------|-----|-----|----------|
| CO2 | Demonstration of Identification of jayapala, gunja, bhallataka, langali with their respective toxic parts. | CAN | МК | КН | D | P-VIVA,P- EXAM,OSPE ,RK | F&S | П | |
| CO2 | Demonstration of identification of arsenic, copper, mercury and lead. | CAN | МК | K | D-M | P-VIVA,P- EXAM | F&S | III | |
| CO2 | Demonstration of Identification of non metal and mineral compounds, acids, alkalis, agrochemicals, hydrocarbons and household poisons. | | МК | К | D | P-VIVA,P- EXAM,RK | F&S | Ш | |
| Topic 8 Sul | bstance abuse | • | | | • | | • | • | |
| CO2,CO4 | Create public awareness on substance abuse and its ill effects. | AFT- VAL | МК | SH | RP,D | P-POS,QZ ,M- CHT | F | III | |
| Topic 9 Leg | gal Procedures | | 1 | I | ļ | • | | | 4 |
| CO6,CO7 | Demonstartion on issuing of fitness certificate, sickness certificate, birth and death certificate, and other relevant medical and medico legal certificates. | CAN | МК | D | PBL, W,PT | P- EXAM,OSPE ,RK | F&S | Ι | |
| CO6,CO7 | Demonstartion of reporting of Leave against medical advice (LAMA), discharge against medical advice (DAMA) and doscharge on patient request (DOPR) | CAP | МК | D | SDL | P-VIVA,RK | F | Ι | |
| Topic 10 V | aidya Sadvritta | | 1 | I | | - | | | -1 |
| CO6,CO7 | Exposure to medical records department for understanding storage, maintanance and disposal of Medical records. | СК | DK | K | D,FV | P-VIVA | F&S | Ι | |
| Topic 11 Po | ersonal Identity | • | | • | • | | | • | <u> </u> |

| CO6 | Demonstrate the method of sex determination based on pelvis. | CAP | МК | SH | EDU, SIM, D | P-PRF,OSPE | F&S | Ι |
|-----------------|--|-------------|---------------|-------------------|------------------------------------|-------------------|--------|-----|
| Topic 12 The | anatology | | | | | | | |
| CO6 | Observe the procedure of medico-legal autopsy and preparation autopsy report. | CAP | МК | SH | L_VC ,D,FV | RK | S | П |
| Topic 13 Inju | ury | · | | | • | • | • | |
| CO6,CO7 | Demonstrate the difference between homicidal, suicidal and accidental injuries. | САР | МК | SH | L&PP T,L_ VC,SI M,D- M | P-VIVA,P- EXAM | F&S | Ш |
| CO6,CO7 | Demonstration of drafting of an injury report. | CAP | МК | D | D- M,D | P-EXAM,P- PRF | F&S | II |
| Topic 14 Sex | rual offences | • | | | | • | | |
| CO5,CO6,CO 7 | Discuss the essentials of Protection of Women from Domestic Violence Act (PWDV Act) 2005 and The Sexual Harassment of Women at Workplace (Prevention, Prohibition & Redressal) Act and Rules (PoSH Act) 2013. | AFT- VAL | DK | D | L&G D,BS, RP | C-INT,INT | F&S | III |
| - | ld Visits (Field visits should be integrated along with the ed na Departments) | ucation | al tour condu | icted by E |) ravyagu | ınavijnan, Ras | asatra | and |
| CO6,CO7 | (Visit to Forensic Science Laboratory) - (Mandatory) Appraise the functioning of a forensic science laboratory | CC | МК | КН | FV | P-VIVA,RK | F | III |
| CO4,CO5 | (Visit to Food testing laboratory) Observe the instrumentation and procedire of food testing | CC | DK | KH | FV | RK,COM | F | Ι |

| CO4,CO5 | (Visit to Pollution Control Board) - (Mandatory) Perceive the functioning of Pollution Control Board | CC | DK | КН | FV | P-VIVA,RK | F | II | |
|-------------|--|-------------|----|----|----------|------------------|-----|-----|---|
| CO4,CO5 | (Visit to De-addiction centre)Observe the management of de- addiction cases | PSY- GUD | DK | КН | FV | RK | F | III | |
| CO7 | (Visit to the Court) - (Mandatory) Observe the procedure of court procedure and conduct of a medical practitioner as an expert witness | PSY- GUD | МК | КН | FV | RK | F | Ι | |
| CO6 | (Visit to mortuary for observation of autopsy)Observe the procedure of medico-legal autopsy | PSY- GUD | МК | КН | FV | P-VIVA,RK | F | II | |
| CO2 | (Visit to snake park) - (Mandatory)Observe live specimens of snake | CC | DK | КН | FV | P-VIVA,RK | F | II | |
| CO2,CO7 | (Visit to casuality) -(Mandatory) Watch the procedure of resuscitation and emergency management | СК | МК | КН | FV | RK | F | I | |
| CO4,CO5 | (Visit to occupational hazards centre)Observe the types and management of cases of occupational hazard | СК | DK | КН | FV | RK | F | II | |
| CO2 | (Visit to ASV manufacturing centre)Observe the steps and procedures involved in ASV manufacturing | СК | DK | К | FV | RK | F | II | |
| CO4,CO5 | Visit Cancer treatment centre. | СК | NK | K | FV | RK | F | III | |
| CO2,CO4 | Visit to department of entomology. | CC | NK | K | FV | RK | F | II | |
| CO2,CO5 | Visit to folklore vaidya using Agada tantra concepts in visha chikitsa. | CAP | DK | SH | FV | RK | F&S | II | |
| Topic 16 To | opics related to regional preference | • | | • | • | - | | - | - |
| CO2,CO3 | Discuss the topics related to regional preference like bites and stings, substance abuse, texts of regional importance, regional | CAP | NK | K | L&G D | P-VIVA,M- POS | F | III | |

| visha chikitsa practices, regional medico-legal issues etc. | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
|---|--|--|--|--|--|--|--|--|--|

Table 4a: List of Practical

| S.No | Name of practical | Term | Activity | Practical hrs |
|------|---|------|--|---------------|
| 1 | Visha Chikitsa | 1 | 1.1 Gastric lavage 1.2 Cardiopulnomary resuscitation (CPR) 1.3 Video demonstration or visit to the emergency care unit for procedures used for removal of absorbed poison. | 6 |
| 2 | Vishakta Ahara Pariksha | 1 | 2.1 Adulteration detection Tests 2.1.1 Urea in milk 2.1.2 Boric acid in milk 2.1.3 Artificial color in turmeric. 2.1.4 Artificial color in pulses and Vegetables. 2.1.5 Argemone Oil in Mustard oil 2.1.6 Adulteration in Honey | 6 |
| 3 | Dooshivisha, Garavisha, Visha Upadrava | 1 | 3.1 Case based teaching on diseases due to dooshivisha and garavisha - drug induced toxicity, occupational hazards, allergic manifestations, autoimmune diseases and endocrine disruptors. 3.2 Recording 10 cases based on case based teaching or OPD and IPD exposure. | 20 |
| 4 | Dermatological manifestation of visha | 2 | 4.1 Dermatological manifestations due to visha ex: contact poisoning (paduka visha, abharana visha etc.) and bites and stings. 4.2 Contact Dermatitis 4.3 Recording 10 cases based on case based teaching or OPD and IPD Exposure. | 20 |
| 5 | Environmental toxicology | 2 | 5.1 Social Awareness program – Rally, street play, skit etc. | 2 |
| 6 | JangamaVisha | 2 | 6.1 Identification of Poisonous and non poisonous snakes 6.2 Diagnosis based on bite marks of snakes 6.3 Diagnosis and Management of snake bite cases through audio/video case presentations or OPD/IPD exposure 6.4 Diagnosis and management of vrishchika, loota and keeta damsha cases through audio/video case presentations or | 10 |

| | | | OPD/IPD exposure. | |
|----|-------------------|---|--|---|
| 7 | Sthavara visha | 2 | 7.1 Identification of various plant poisons, metal and mineral compounds, acids, alkalis, agrochemicals, hydrocarbons and household poisons. | 6 |
| 8 | Substance abuse | 3 | 8.1 Community Awareness programmes by students like rallies, street play etc. 8.1.1. Observation of international day against drug abuse and illicit trafficking. 8.1.2. World No tobacco day. | 8 |
| 9 | Legal Procedures | 1 | 9.1 Hands on training on Preparation of Medical & Medico legal reports. 9.1.1 Fitness & Sickness certificate. 9.1.2 Birth & Death Certificate and other relevant medical and medico legal certificates. 9.1.3 Leaving against medical advice (LAMA), Discharge against medical advice (DAMA), Discharge on patient request (DOPR) | 2 |
| 10 | Vaidya Sadvritta | 1 | 10.1 Exposure to the medical records department for understanding the storage, maintenance and disposal of medical records. | 2 |
| 11 | Personal Identity | 1 | 11.1. Sex determination based on pelvis. | 4 |
| 12 | Thanatology | 2 | 12.1 Procedure of autopsy: visit to mortuary or audio-visual demonstrations. | 6 |
| 13 | Injury | 2 | 13.1. Hands on training on assessment of accidental, suicidal, and homicidal injuries.13.2. Preparation of injury report. | 6 |
| 14 | Sexual offences | 3 | 14.1 Introduction to Protection of Women from Domestic Violence Act (PWDV Act) 2005 and The Sexual Harassment of | 2 |

| | | | Women at Workplace (Prevention, Prohibition & Redressal) Act and Rules (PoSH Act) 2013. | |
|----|--|---|--|-----|
| 15 | Field Visits (Field visits should be integrated along with the educational tour conducted by Dravyagunavijnan, Rasasatra and Swasthavrutha Departments) | 2 | (It is mandatory to have 5 field visits) | 30 |
| 16 | Topics related to regional preference | 3 | Exposure to topics related to regional preference like bites and stings, substance abuse, texts of regional importance, regional visha chikitsa practices, regional medico-legal issues etc. | 10 |
| | | • | Total Hr | 140 |

Activity

| СО | Topic name | Activity Details | Hours# |
|---------|---|---|--------|
| CO3,CO4 | Survey of personal care products. | Students shall be divided into small groups and are asked to collect the information about common personal care products like soaps, shampoos, deodorants, cosmetics etc. Then they sholud be asked to enlist the chemicals used in them and discuss about the health hazards associated with their use. Then students can be asked to present their findings in the form of class seminar or Charts or Posters or small videos. | 4 |
| CO5 | Community teaching by students - awareness among adoloscent about Protection of Women from Domestic Violence Act (PWDV Act) 2005 and The Sexual Harassment of Women at Workplace (Prevention, Prohibition & Redressal) Act and Rules | After undergoing orientation/sensitization regarding Protection of Women from Domestic Violence Act (PWDV Act) 2005 and The Sexual Harassment of Women at Workplace (Prevention, Prohibition & Redressal) Act and Rules (PoSH Act) 2013, the students will have to visit nearby schools/colleges in small teams/groups and create awareness amongst them. This can be done as part of NSS activity or exclusive visits to schools/colleges. | 2 |

| | (PoSH Act) 2013. | | |
|---------|--|---|---|
| CO2,CO4 | Observation of international day against drug abuse and illicit trafficking | Community awareness programmes by students like rallies, street play etc. | 3 |
| CO2,CO4 | No Tobacco Day | Community Awareness programmes by students like rallies, street play, skit, flash mob etc. | 3 |
| CO5 | Environmental toxicology | Poster presentation competition related to environment, rallies, skit, flash mob on World Environment Day. | 2 |
| CO6,CO7 | Vaidya sadvritta | Exposure to Medical records department for maintainance, storage and disposal of medical record, finding out errors in medical case reccords. | 2 |
| CO6 | Forensic psychiatry | Seminar/ guest lecture on how to deal with adolescent psychiatric issue | 2 |
| CO2,CO4 | Chronic toxicity of heavy metals. | Group discusion and case based learning by taking example of published case reports. | 1 |
| CO2,CO4 | World Cancer Day to raise awareness of cancer risk and cancer prevention | Poster Competition / Quiz Competition / Gruop Discusion | 4 |
| CO6,CO7 | Legal procedure- Recording of evidence and duties of a physician in the court of Law. | Mock court / role play | 4 |
| CO2 | Sarpa Visha | | 2 |
| | | 1. Identification of poisonous and non poisononus snakes - | |
| | | Group Discussion/ Brainstorming - Specimens (Photos) of poisonous and non poisonous snakes with their features shall be given to small group of students and asked to identify the sankes. | |
| | | 2. Clinical diagnosis of snake bites | |

| | | Group Discussion - Specimens (Photos) showcasing local and systemic signs and symptoms of poisonous (Hemotoxic and Nuerotoxic) snake bite shall be given to small group of students and asked to diagnose the case. | |
|---------|---|--|---|
| | | CBL - Presentation of recorded cases or the Case reports or studies published in reputed journals. | |
| | | Brainstorming/Quiz - The same pictures may be shown with MCQ's and Quiz session can be conducted among the groups of students | |
| CO2 | Vrischika visha, luta visha and keeta visha. | Group Discussion - Specimens (Photos) showcasing local and systemic signs and symptoms of Vrischika Visha (Scorpion Sting), Loota Visha (Spider Bite) and Keetavisha (Insect bite) and differentiating with snake bites shall be given to small group of students and asked to diagnose the case. | 2 |
| | | CBL - Presentation of recorded cases or the Case reports or studies published in reputed journals. | |
| | | Brainstorming/Quiz - The same pictures may be shown with MCQ's and Quiz session can be conducted among the groups of students. | |
| CO3,CO4 | Dooshivisha, garavisha and visha upadrava | Group Discussion - Photographs/case reports/ simulated cases showcasing various drug induced toxicities, occupational hazards, allergic manifestations, autoimmune diseases and diseases due to endocrine disruptors shall be given to small group of students and asked to assess the dosha, diagnose and discuss the plan of treatment. | 4 |

| | | CBL - Presentation of recorded cases or the Case reports or studies published in reputed journals. | |
|---------|---|--|---|
| | | Brainstorming/Quiz - The same pictures may be shown with MCQ's and Quiz session can be conducted among the groups of students. | |
| CO3,CO4 | Dermatological manifestation of visha. | Group Discussion - Photographs/case reports/ simulated cases showcasing various dermatological presentations of poison, bites and stings and contact dermititis shall be given to small group of students and asked to assess the dosha, diagnose and discuss the plan of treatment. | 4 |
| | | CBL - Presentation of recorded cases or the Case reports or studies published in reputed journals. | |
| | | Brainstorming/Quiz - The same pictures may be shown with MCQ's and Quiz session can be conducted among the groups of students. | |

Hours indicated are included in calculations of Table 3 and 4

| Table 5- Teaching l | earning method |
|---------------------|----------------|
|---------------------|----------------|

| Sr No | Teaching learning methods in the course | No of Activities |
|-------|---|------------------|
| 1 | Lecture | 18 |
| 2 | Lecture with Power point presentation | 106 |
| 3 | Lecture & Group Discussion | 32 |
| 4 | Lecture with Video clips | 13 |
| 5 | Discussions | 22 |
| 6 | Brainstorming | 22 |
| 7 | Inquiry-Based Learning | 1 |

| 8 | PBL | 6 |
|----|------------------------|----|
| 9 | CBL | 26 |
| 10 | Flipped classroom | 4 |
| 11 | Edutainment | 2 |
| 12 | Mobile learning | 2 |
| 13 | Simulation | 1 |
| 14 | Self-directed learning | 15 |
| 15 | Demo on Model | 2 |
| 16 | Tutorial | 2 |
| 17 | Presentations | 9 |
| 18 | Practical | 1 |
| 19 | Case diagnosis | 5 |
| 20 | Demonstration | 2 |
| 21 | Field visit | 1 |

These are overall teaching learning methods listed in Table 3 and 4. Teachers can select the best possible method amongst the given methods as per objective, available time etc.

Table 6: Assessment Summary: Assessment is subdivided in A to H points

6 A-Number of Papers and Marks Distribution

| Subject | Papers | Theory | | Practical/Clinical Assessment | | | | |
|---------|--------|--------|-----------|-------------------------------|----------------------|----|--------------|----------------|
| Code | | | Practical | Viva | Elective (Set SA) | IA | Sub Total | Grand Total |
| AyUG-AT | 1 | 100 | 100 | 60 | 10 | 30 | 200 | 300 |

6 B - Scheme of Assessment (formative and Summative)

| PROFESSIONAL | DURATIO | ON OF PROFESSIONAL | | | | |
|--------------|----------------------------|------------------------------|------------------------------|--|--|--|
| COURSE | First Term (1-6 Months) | Second Term (7-12 Months) | Third Term (13-18 Months) | | | |
| Second | 3 PA & First TT | 3 PA & Second TT | 3 PA & UE** | | | |

PA: Periodical Assessment; TT: Term Test; UE: University Examinations.

** University Examination shall be on entire syllabus

6 C - Calculation Method for Internal assessment Marks

| | | PERIODIO | CAL ASSES | SSMENT* | | TERM TEST** | | | |
|----------|--|---|-----------------|--------------------------|--|--|----------------------------|------------------------------|--|
| | A 4 | В | С | D | E | F | G | Н | |
| TERM | 1 (15 Marks) | 2 (15 Marks) | 3 (15 Marks) | Average (A+B+C/ 3) | Converted to 30 Marks (D/15*30) | Term Test (Marks converted to 30) | Sub Total _/60 Marks | Term Ass essment (/30) | |
| FIRST | | | | | | | E+F | (E+F)/2 | |
| SECOND | | | | | | | E+F | (E+F)/2 | |
| THIRD | | | | | | NIL | | Е | |
| Final IA | Average of | Three Term | Assessment | Marks as Sh | own in 'H' C | olumn. | • | | |
| | *Select an I for Periodic Theory (10 | Maximum Marks in Parentheses *Select an Evaluation Method which is appropriate for the objectives of Topics from the Table 6 D for Periodic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert to 30 marks. | | | | | | | |

6 D - Evaluation Methods for Periodical Assessment

| S. No | Evaluation Methods |
|-------|---|
| 1 | Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3 |

Evaluation Methods in MSE

- 1. Practical / Clinical Performance
- 2. Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
- 3. Open Book Test (Problem Based)
- 4. Summary Writing (Research Papers/ Samhitas)
- 5. Class Presentations; Work Book Maintenance
- 6. Problem Based Assignment
- 7. Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination

(OPSÉ), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)

8. Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).

9. Small Project etc.

II PROFESSIONAL BAMS EXAMINATIONS AyUG-AT PAPER-1

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory

| | | Number of Questions | Marks per question | Total Marks |
|-----|---------------------------------|------------------------|-----------------------|-------------|
| Q 1 | MULTIPLE CHOICE QUESTIONS (MCQ) | 20 | 1 | 20 |
| Q 2 | SHORT ANSWER QUESTIONS (SAQ) | 8 | 5 | 40 |
| Q 3 | LONG ANSWER QUESTIONS (LAQ) | 4 | 10 | 40 |
| | | | | 100 |

| Pap | | | 1 | 1 | 1 | 1 |
|-----------|---|-----------|------------|-----------------|------------------|----------------------|
| Sr. No | A List of Topics | B Term | C Marks | MCQ (1 Mark) | SAQ (5 Marks) | LAQ (10 Marks) |
| 1 | Concepts of Agada Tantra (Clinical Toxicology) | 1 | 13 | Yes | Yes | Yes |
| 2 | Visha Chikitsa (Management of Poisoning) | 1 | | Yes | Yes | Yes |
| 3 | Vishakta aahara pariksha and Viruddha ahara | 1 | | Yes | Yes | No |
| 4 | Garavisha and Dooshivisha | 1 | 12 | Yes | Yes | Yes |
| 5 | Visha Upadrava and diseases caused due to exposure to Visha/poisons | 1 | | Yes | Yes | No |
| 6 | Environmental Toxicology | 2 | 11 | Yes | Yes | No |
| 7 | Dermatological manifestations of visha/poisons. | 2 | | Yes | Yes | No |
| 8 | Therapeutic utility of Agada yoga | 2 | | Yes | Yes | No |
| 9 | Sthavara visha – Poisons of Plant origin | 2 | 17 | Yes | Yes | Yes |
| 10 | Sthavara Visha – Poisons of Metallic origin | 2 | _ | Yes | Yes | Yes |
| 11 | Jangama Visha | 2 | - | Yes | Yes | Yes |
| 12 | Kritrima visha | 3 | 12 | Yes | Yes | Yes |
| 13 | Substances of abuse | 3 | - | Yes | Yes | Yes |
| 14 | Agada Tantra perspectives on cancer | 3 | | Yes | Yes | No |
| 15 | Forensic medicine (Vyavahara Ayurveda) and Medical jurisprudence (Vidhi vaidyaka): | 1 | 10 | Yes | No | No |

| 16 | Vaidya sadvritta : Duties and Responsibilities of medical practitioner | 1 | | Yes | Yes | No |
|-------------|--|---|-----|-----|-----|-----|
| 17 | Legal Procedures | 1 | | Yes | Yes | No |
| 18 | Personal identity | 1 | - | Yes | Yes | Yes |
| 19 | Thanatology | 2 | 12 | Yes | Yes | Yes |
| 20 | Asphyxial deaths | 2 | - | Yes | Yes | Yes |
| 21 | Injury | 2 | - | Yes | Yes | Yes |
| 22 | Pregnancy, delivery and abortion | 3 | 6 | Yes | Yes | No |
| 23 | Sexual offences | 3 | - | Yes | Yes | No |
| 24 | Forensic psychiatry. | 3 | 7 | Yes | Yes | No |
| 25 | Forensic science laboratory | 3 | - | Yes | Yes | No |
| 26 | Laws, Acts, Rules and Regulations | 3 | - | Yes | Yes | No |
| Total Marks | | | 100 | | | |

| Paper No:1 | - | |
|-------------|--|--|
| Question No | Type of Question | Question Paper Format |
| Q1 | Multiple choice Questions 20 Questions 1 mark each All compulsory Must know part - 15 MCQ Desirable to know - 3 MCQ Nice to know part - 2 MCQ | Concepts of Agada Tantra (Clinical Toxicology) Visha Chikitsa (Management of Poisoning) Visha Lyadrava and Dooshivisha Visha Upadrava and diseases caused due to exposure to Visha/poisons Asphyxial deaths Dermatological manifestations of visha/poisons. Therapeutic utility of Agada yoga Kritrima visha / Sthavara Visha – Poisons of Metallic origin Jangama Visha Substances of abuse Agada Tantra perspectives on cancer Vaidya sadvritta : Duties and Responsibilities of medical practitioner / Forensic medicine (Vyavahara Ayurveda) and Medical jurisprudence (Vidhi vaidyaka): Legal Procedures / Injury Pregnancy, delivery and abortion / Thanatology Environmental Toxicology / Personal identity Forensic psychiatry. / Forensic science laboratory Laws, Acts, Rules and Regulations Sthavara visha – Poisons of Plant origin Sexual offences |
| Q2 | Short answer Questions Eight Questions 5 Marks Each All compulsory Must know - 7 SAQ Desirable to know - 1 SAQ No questions on Nice to know | Vishakta aahara pariksha and Viruddha ahara / Visha Upadrava and diseases caused due to exposure to Visha/poisons / Garavisha and Dooshivisha Visha Chikitsa (Management of Poisoning) / Therapeutic utility of Agada yoga / Dermatological manifestations of visha/poisons. Kritrima visha / Sthavara visha – Poisons of Plant origin / Environmental Toxicology / Sthavara Visha – Poisons of Metallic origin Jangama Visha / Concepts of Agada Tantra (Clinical Toxicology) / Vaidya sadvritta : Duties and Responsibilities of medical |

| | | practitioner 5. Environmental Toxicology / Agada Tantra perspectives on cancer / Substances of abuse 6. Asphyxial deaths / Personal identity / Injury 7. Pregnancy, delivery and abortion / Sexual offences / Personal identity 8. Forensic psychiatry. / Forensic science laboratory / Laws, Acts, Rules and Regulations |
|----|---|--|
| Q3 | Long answer Questions Four Questions 10 marks each All compulsory All questions on must know. No Questions on Nice to know and Desirable to know | Visha Chikitsa (Management of Poisoning) / Concepts of Agada Tantra (Clinical Toxicology) Jangama Visha / Garavisha and Dooshivisha Kritrima visha / Sthavara visha – Poisons of Plant origin / Sthavara Visha – Poisons of Metallic origin / Substances of abuse Thanatology / Asphyxial deaths / Personal identity / Injury |

6 H Distribution of Practical Exam

| S.No | Heads | Marks |
|------|--|-------|
| 1 | Spotting (15 specimens of 4 marks each) 1.1. Snake – 2 specimens | 60 |
| | 1.1.1 Identification - 1 mark | |
| | 1.1.2 Differentiating features of poisonous/ non-poisonous snake – 1 mark | |
| | 1.1.3 Important clinical signs - 1 mark | |
| | 1.1.4 Ayurvedic management - 1 mark1.2. Mineral poisons/ Kritrima visha (1 specimen each)-2 specimens | |
| | 1.2.1. Identification - 1 mark | |
| | 1.2.2 Identification of symptom clusters mimicking other diseases and their | |
| | differential diagnosis - 2 marks | |
| | 1.2.3 Method of detoxification and Antidotes-1 mark1.3. Toxicplants- 2 specimens | |
| | 1.3.1 Identification with scientific, family and sanskrit names 1 mark | |
| | 1.3.2 Mode of use in Visha cases – 1 mark | |
| | 1.3.3 detoxification method, Class of poison and Active principles present in | |
| | the plant - 1 mark | |
| | 1.3.4 Antidotes used against the specimen - 1 mark1.4. Antitoxic plants - 3 specimens | |
| | 1.4.1 Identification with scientific, family and sankrit names - 1 mark | |
| | 1.4.2 Mode of use in visha - 1 mark | |
| | 1.4.3 Active principles - 1 mark | |
| | 1.4.4 Important formulations - 1 mark1.5. Injuries – 2 specimens | |
| | 1.5.1. Identify the injury - 1 mark | |
| | 1.5.2. Identify the weapon/criminal act causing such injury - 2 mark | |
| | 1.5.3. Medico-legal importance- 1 marks1.6. News item – papercuttings or other medico-legal case scenarios – 2 specimens | |
| | 1.6.1. Identify the crime – 1 mark | |

| | 1.6.2. Relevant IPC/CrPC sections associated with the crime – 1 mark | |
|---|---|----|
| | 1.6.3. Relevant Act related to the crime – with sub-questions related to its sub- | |
| | sections, punishment etc 2 marks7. Jangama visha – other poisonous creatures – 2 specimens | |
| | 1.7.1. Identification – 1 mark | |
| | 1.7.2. Adhishtana/samanya lakshana/ chikitsa – 2 marks | |
| | 1.7.3. specific formulations/doses – 1 mark(Sub-questions mentioned against each item is for a purpose of example only. Different questions may be framed on the various aspects of the guidelines provided) | |
| 2 | Practical Records | 10 |
| 3 | Medical and Medico-legal Certificate WritingStudents will be provided with a case-scenario based on which they are asked to write a medical certificate for a specific purpose. Evaluation guidelines should be based on the essential criteria in the format of a valid medical certificate. | 10 |
| 4 | Short CaseCase scenarios with pictures to diagnose a specific case of poisoning and specific questions asked regarding its clinical examination, investigations, treatment, prognosis etc. | 10 |
| 5 | Clinical Applications of Agada | 10 |
| | Identification of Agada for a case scenario detailed – 2 marks Select the ingredients of the formulation from a group of drugs and identify using scientific names and answer sub-questions based on its preparation, anupana, dose etc. – 8 marks | |
| 6 | Viva Questions will be asked on the following topics | 60 |
| | Agada Tantra (2 questions 5 marks each) - 10 marks Forensic Science (Vyavaharayurveda) (2 questions 5 marks) - 10 marks Jurisprudence (Vidhivaidyaka) (2 questions 5 marks) - 10 marks Toxicology (2 questions 5 marks each) - 10 marks Concepts of Agada Tantra in cancer and substance abuse (one question from each) (2 questions 5 marks each) - 10 marks Viva on Compilation and Communication skills (2 questions 5 marks each) - 10 marks | |

| 7 | Electives (Set SA) | 10 |
|-------------|--------------------|-----|
| 8 | ΙΑ | 30 |
| Total Marks | | 200 |

| S.No | Book | Author(s)/Resources |
|------|---|---|
| 1 | Concise Forensic Medicine & Toxicology | KS Narayana Reddy, Jaypee Medical Publisher |
| 2 | Essentials ofForensic Medicine & Toxicology | K S Narayana Reddy, Jaypee Medical Publisher |
| 3 | Principles of Forensic Medicine & Toxicology | Rajesh Bardale, Jaypee Medical Publisher |
| 4 | Modern Medical Toxicology | VV Pillay, Jaypee Medical Publisher |
| 5 | Recent Advances in Forensic Medicine and Toxicology (Volume 1 & 2) | Gautam Biswas, Jaypee Medical Publisher |
| 6 | Textbook on Medicolegal Issues: Related to Various Medical Specialties by Satish TiwariMahesh BaldwaMukul TiwariAlka Kuthe | Jaypee Medical Publisher |
| 7 | Manual on Doctor and Law | RN Goel Narendra, Malhotra Shashi Goel, Jaypee Medical Publisher |
| 8 | Jaypee's Video Atlas of Medicolegal Autopsy | Sujith Sreenivas C Prasannan K Thomas Mathew, Jaypee Medical Publisher |
| 9 | Jaypee Gold Standard Mini Atlas Series Forensic Medicine by Ashesh Gunwantrao Wankhede | Jaypee Medical Publisher |
| 10 | MODI's Textbook of Medical Jurisprudence and Toxicology | K Kannan, Jaypee Medical Publisher |
| 11 | A Text book of Agada Tantra | Dr Shobha Bhat, Chaukamba Orientalia |
| 12 | Agada Tantra | Dr Ramesh Chandra Tiwari, Chaukamba Orientalia |
| 13 | Text Book of Agad Tantra Evam Vyavaharayurveda | Dr Sandeep Charak Dr.Piyush Gupta Dr Divya Tiwari, Ayurveda Sanskrit Hindi Pustak Bhandar. |
| 14 | Ayodhyaprasad Achal'sAgada Tantra | Dr Jina Patnaik, Chaukamba Surbharati Prakashan |
| 15 | Illustrated Agada Tantra | Dr PVNR Prasad, Chaukamba Sanskrit Series Varanasi |
| 16 | Textbook on Agada Tantra | DR V P JOGLEKAR, RASHTRIYA SHIKSHAN MANDAL, PUNE |
| 17 | Review of Forensic Medicine and Toxicology by Dr Gautam Biswas | Jaypee Medical Publisher |
| 18 | Toxicology - An Ayurvedic Perspective | Department of Agadtantra, Vaidyaratnam PS Varier Ayurveda College, Kottakkal |

Abbreviations

Assessment

| S.No | Short form | Discription |
|------|------------|-------------------------------|
| 1 | T-EMI | Theory extended matching item |
| 2 | T- EW | Theory Essay writing |
| 3 | T- MEQs | Theory MEQs |
| 4 | T-CRQs | Theory CRQs |
| 5 | T-CS | Theory case study |
| 6 | T-OBT | Theory open book test |
| 7 | P-VIVA | Practical Viva |
| 8 | P-REC | Practical Recitation |
| 9 | P-EXAM | Practical exam |
| 10 | PRN | Presentation |
| 11 | P-PRF | Practical Performance |
| 12 | P-SUR | Practical Survey |
| 13 | P-EN | Practical enact |
| 14 | P-RP | Practical Role play |
| 15 | P-MOD | Practical Model |
| 16 | P-POS | Practical Poster |
| 17 | P-CASE | Practical Case taking |
| 18 | P-ID | Practical identification |
| 19 | P-PS | Practical Problem solving |
| 20 | QZ | Quiz |
| 21 | PUZ | Puzzles |
| 22 | CL-PR | Class Presentation, |
| 23 | DEB | Debate |
| 24 | WP | Word puzzle |
| 25 | O-QZ | Online quiz |

| 26 | O-GAME | Online game-based assessment |
|----|--------------|------------------------------|
| 27 | M-MOD | Making of Model |
| 28 | M-CHT | Making of Charts |
| 29 | M-POS | Making of Posters |
| 30 | C-INT | Conducting interview |
| 31 | INT | Interactions |
| 32 | CR-RED | Critical reading papers |
| 33 | CR-W | Creativity Writing |
| 34 | C-VC | Clinical video cases, |
| 35 | SP | Simulated patients |
| 36 | РМ | Patient management problems |
| 37 | СНК | Checklists |
| 38 | OSCE | OSCE |
| 39 | OSPE | OSPE, |
| 40 | Mini-CEX | Mini-CEX |
| 41 | DOPS | DOPS |
| 42 | CWS | CWS |
| 43 | RS | Rating scales |
| 44 | RK | Record keeping |
| 45 | СОМ | Compilations |
| 46 | Portfolios | Portfolios |
| 47 | Log book | Log book |
| 48 | TR | Trainers report |
| 49 | SA | Self-assessment |
| 50 | РА | Peer assessment |
| 51 | 360D | 360-degree evaluation |
| 52 | TT-Theory | Theory |
| 53 | PP-Practical | Practical |
| 54 | VV-Viva | Viva |

Domain

| S.No | Short form | Discription |
|------|------------|-----------------------------|
| 1 | СК | Cognitive/Knowledge |
| 2 | CC | Cognitive/Comprehension |
| 3 | САР | Cognitive/Application |
| 4 | CAN | Cognitive/Analysis |
| 5 | CS | Cognitive/Synthesis |
| 6 | CE | Cognitive/Evaluation |
| 7 | PSY-SET | Psychomotor/Set |
| 8 | PSY-GUD | Psychomotor/Guided response |
| 9 | PSY-MEC | Psychomotor/Mechanism |
| 10 | PSY-ADT | Psychomotor Adaptation |
| 11 | PSY-ORG | Psychomotor/Origination |
| 12 | AFT-REC | Affective/ Receiving |
| 13 | AFT-RES | Affective/Responding |
| 14 | AFT-VAL | Affective/Valuing |
| 15 | AFT-SET | Affective/Organization |
| 16 | AFT-CHR | Affective/ characterization |

T L method

| S.No | Short form | Discription | |
|------|------------|---------------------------------------|--|
| 1 | L | Lecture | |
| 2 | L&PPT | Lecture with Power point presentation | |
| 3 | L&GD | Lecture & Group Discussion | |
| 4 | L_VC | Lecture with Video clips | |
| 5 | DIS | Discussions | |
| 6 | BS | Brainstorming | |
| 7 | IBL | Inquiry-Based Learning | |
| 8 | PBL | PBL | |
| 9 | CBL | CBL | |
| 10 | PrBL | Project-Based Learning | |
| 11 | TBL | TBL | |
| 12 | TPW | Team project work | |
| 13 | FC | Flipped classroom | |
| 14 | BL | Blended Learning | |
| 15 | EDU | Edutainment | |
| 16 | ML | Mobile learning | |
| 17 | ECE | ECE | |
| 18 | SIM | Simulation | |
| 19 | RP | Role plays | |
| 20 | SDL | Self-directed learning | |
| 21 | PSM | Problem solving method | |
| 22 | KL | Kinesthetic Learning | |
| 23 | W | Workshops | |
| 24 | GBL | Game-Based Learning | |
| 25 | D-M | Demo on Model | |

| 26 | LS | Library Session | |
|----|-------|---------------------------|--|
| 27 | PL | Peer learning | |
| 28 | RLE | Real life experience | |
| 29 | REC | Recitation | |
| 30 | SY | Symposium | |
| 31 | TUT | Tutorial | |
| 32 | PER | Presentations | |
| 33 | РТ | Practical | |
| 34 | XRay | X ray identification | |
| 35 | CD | Case diagnosis | |
| 36 | LRI | Lab report interpretation | |
| 37 | DA | Drug analysis | |
| 38 | D | Demonstration | |
| 39 | D_BED | Demonstration bedside | |
| 40 | D_L | Demonstration Lab | |
| 41 | DG | Demonstration Garden | |
| 42 | FV | Field visit | |
| 43 | PRA | Practical | |
| | | | |
| | | | |

Course curriculum for Second Professional BAMS

(PRESCRIBED BY NCISM)



Dravyaguna Vigyan (SUBJECT CODE : AyUG-DG)

(Applicable from 2021-22 batch, from the academic year 2023-24 onwards for 5 years or until further notification by NCISM, whichever is earlier)





BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110058

NCISM

II Professional Ayurvedacharya (BAMS)

Subject Code : AyUG-DG

Summary

| Total number of Teaching hours: 400 | | | | | | | |
|-------------------------------------|------------|-----|----------|--|--|--|--|
| Lecture hours(LH)-Theor | У | | | | | | |
| Paper I | 75 | 150 | 150(LH) | | | | |
| Paper II | 75 | | | | | | |
| Non Lecture hours(NLH) | -Theory | | | | | | |
| Paper I & II | 75 | 250 | 250(NLH) | | | | |
| Non Lecture hours(NLH) | -Practical | | | | | | |
| Paper I & II | 175 | | | | | | |

| Examination (Papers & Mark Distribution) | | | | | | | |
|--|--|-----------|------|----------|----|--|--|
| Item | Theory Component Marks Practical Component Marks | | | | | | |
| | | Practical | Viva | Elective | IA | | |
| Paper I | 100 | 100 | - 0 | | | | |
| Paper II | 100 | 100 | 70 | - | 30 | | |
| Sub-Total | 200 | 200 | | | | | |
| Total marks | | 400 | | | | | |

Important Note:-The User Manual II BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual II before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic.

In case of difficulty and questions regarding curriculum write to cur.imp@ncismindia.org

PREFACE

The Bachelor of Ayurveda education shall produce graduates having profound knowledge of Ashtanga Ayurveda. One of the chatushpada has been mentioned is Dravya. The revised syllabus of Dravyaguna along with the contemporary advances supplemented with knowledge of scientific and technological advances in Dravyaguna along with extensive practical training

Fundamentals of Dravyaguna involves a thorough knowledge of various principles and concepts of Rasapanchaka (fivefold analysis of medicinal substances) and Karma (pharmacological action). It refers to classical Ayurvedic texts, provides suitable examples, and includes contemporary interpretations to facilitate better understanding. Most commonly used dravyas by clinicians are included in curriculum.

The current syllabus focuses greater emphasis on understanding the fundamentals with a scientific interpretation and clinical application. The repetitive topics such as Ahara varga, Nighantu, and Jangama dravyas is avoided since they are covered in Samhita adhyayana (study of classical texts), Itihasa (history), and ethical considerations related to the clinical use of animal-origin drugs.

Additionally, newer areas in Ayurveda related to medicinal plants, such as cultivation techniques, collection methods, and various regulatory guidelines from organizations like NMPB (National Medicinal Plants Board), CCRAS (Central Council for Research in Ayurvedic Sciences), API (Ayurvedic Pharmacopoeia of India), GCTM (Global Centre for Traditional Medicine), PCIMH (Pharmacopoeia Commission for Indian Medicine & Homoeopathy), pharmacovigilance, Vrikshayurveda (science of plant life), Ethno medicine, Network pharmacology, and Bioinformatics, have been incorporated. This information is crucial for the sustainable use of medicinal plants and a better understanding of their properties.

Practical sessions in Dravyaguna focus on understanding fundamental concepts such as Mahabhuta (five elements), Guna (properties), Rasa (taste), and Virya (potency) with Parameters commonly used in physicochemical analysis. The curriculum also addresses challenges faced by the herbal drug industry, including the issue of adulteration, by incorporating quality check parameters. Furthermore, the students gain practical experience in plant identification through visits to various natural and cultivated plant habitats.

The revised curriculum for Dravyaguna reflects commitment to equipping students with the knowledge and skills necessary to excel in the field of Ayurvedic pharmacology. Hope that this curriculum will inspire and empower students to become proficient Ayurvedic practitioners who can contribute to the holistic well-being of individuals and society as a whole.

INDEX

| Course Code and Name of Course | |
|--|------|
| Table 1- Course learning outcomes and matched PO | 5 |
| Table 2 : Contents of Course | |
| Paper 1 | 6 |
| Paper 2 | 10 |
| Table 3: Learning objectives (Theory) of Course | . 14 |
| Paper 1 | . 14 |
| Paper 2 | . 31 |
| List of Practicals | . 34 |
| Table 4: Learning objectives (Practical) | . 35 |
| Practical 1 | . 35 |
| Table 4a: List of Practical | . 45 |
| Activity | |
| Table 5- Teaching learning method | . 58 |
| Table 6: Assessment Summary: Assessment is subdivided in A to H points | |
| 6 A-Number of Papers and Marks Distribution | |
| 6 B - Scheme of Assessment (formative and Summative) | . 60 |
| 6 C - Calculation Method for Internal assessment Marks | |
| 6 D - Evaluation Methods for Periodical Assessment | . 61 |
| 6 E Question Paper Pattern | |
| 6 F Distribution of theory examination | |
| Paper 1 | . 63 |
| Paper 2 | . 64 |
| 6 G Blue print of paper I & II | |
| 6 H Distribution of Practical Exam | . 69 |
| References Books/ Resources | |
| Abbreviations | . 76 |

| Course code | Name of Course |
|-------------|-------------------|
| AyUG-DG | Dravyaguna Vigyan |

Table 1- Course learning outcomes and matched PO

| SR1 CO No | A1 Course learning Outcomes (CO) AyUG-DG At the end of the course AyUG-DG, the students should be able to- | B1 Course learning Outcomes matched with program learning outcomes. |
|-----------------|--|---|
| CO1 | Demonstrate the application of principles of <i>Dravyaguna</i> in clinical practice. | PO1,PO2,PO8 |
| CO2 | Analyze and justify the fundamental principles of <i>Dravyaguna</i> in relevance to contemporary sciences. | PO1 |
| CO3 | Analyze and interpret <i>Rasa Panchaka</i> of <i>Dravya</i> with their application in clinical practice. | PO5,PO9 |
| CO4 | Interrelate the knowledge on Karma (pharmacological actions) with <i>Rasa panchaka</i> and basic contemporary clinical pharmacology. | PO2 |
| CO5 | Demonstrate and Justify the ability to select the specific <i>Dravyas</i> , Prashata Bheshaja with different dosage forms in different clinical conditions. | PO3,PO7,PO9 |
| CO6 | Demonstrate knowledge of quality control methods of drug. | PO3 |
| CO7 | Demonstrate knowledge and skills about <i>Apamishrana</i> (adulterants), <i>Abhava pratinidhidravya</i> (substitutes), <i>Prashastabheshaja</i> (ideal drug) and plant extracts. | PO5,PO6 |
| CO8 | Identify the medicinal plants and orient about conservation, cultivation, sustainable utilization & Pharmacovigilance | PO4,PO6 |
| CO9 | Demonstrate fundamental principles of applied Pharmacology. | PO2 |

Table 2 : Contents of Course

| Sr. No | er 1 Fundamental Dravyaguna A2 List of Topics | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
|-----------|---|------------|-------------|------------------------|--------------------------------|
| 1 | 1.Dravyaguna Vigyana | 1 | 1 | 1 | 1 |
| 2 | 2.Dravya | 1 | 6 | 5 | 4 |
| | 2.1 Panchabhoutikatwa of Dravya 2.2 Classification of Dravya based on Utpattibheda, Yonibheda, Prayogabheda, Prabhavbheda, Doshaghnabheda, Rasabheda and Karmbheda | | | | |
| 3 | 3. Guna | 1 | 11 | 4 | 2 |
| | 3.1 Panchabhoutikatva, characteristics and classification 3.2 Gurvadiguna and its karma on Dosha, Dhatu and Mala, clinical application and research updates 3.3 Paradiguna with examples, clinical applications and research updates | | | | |
| 4 | 4. Rasa | 1 | 11 | 7 | 4 |
| | 4.1 Meaning of "Rasa" in various contexts 4.2 Shadrasa in relative correlation with taste of chemical constituents 4.3 Rasotpatti and Panchabhoutika constitution of Shadrasa 4.4 Rasopalabdhi and pathway of taste perception & sites of taste receptors in the body 4.5 Rasa -Lakshana, Guna & Karmas of each Rasa on Dosha, Dhatu and Mala 4.6 Atiyogalakshana, 4.7 Clinical application and Research updates of Shadrasa 4.8 Anurasa 4.9 Rasa Sevanakrama of Aushadha | | | | |

| 5 | 5. Vipaka | 1 | 6 | 3 | 1 |
|---|---|---|----|---|---|
| | 5.1 Trividha Vipaka 5.2 Vipak karma on Dosha, Dhatu and Mala 5.3 Clinical application and Research updates 5.4 Vipakopalabdhi (Determination of Vipaka) & Taratamya (Degree of variation) | | | | |
| 5 | 6. Virya | 1 | 6 | 2 | 2 |
| | 6.1 Difference between Guna and Virya 6.2 Karmas of Virya on Dosha, Dhatu and Mala 6.3 Clinical application and Research updates 6.4 Viryaopalabdhi (Determination of Virya) and understanding of Virya with respect to actions of active constituents | | | | |
| , | 7. Prabhava | 1 | 5 | 2 | 1 |
| | 7.1 Samanapratyayarabdha and Vichitrapratyayarabdha 7.2 Clinical application of Prabhava and Research updates | | | | |
| 3 | 8. Interrelation of Rasa-Guna-Virya-Vipaka-Prabhava | 1 | 1 | 1 | 2 |
| | • Interrelation of Rasa-Guna-Virya-Vipaka-Prabhava with respect to their strength- Pharmacodynamics | | | | |
| 9 | 9. Karma | 1 | 11 | 9 | 5 |
| | 9. Individual Karma, correlation with contemporary pharmacological action, examples, clinical application and research updates 9.1 Deepana 9.2 Pachana | | | | |

| | 9.3 Samshodhana 9.4 Samshamana 9.5 Anulomana 9.5 Anulomana 9.6 Sransana 9.7 Bhedana 9.8 Rechana 9.9 Chhedana 9.10 Lekhana 9.11 Grahi 9.12 Sthambhana 9.13 Madakari 9.14 Pramathi 9.15 Abhishyandi 9.16 Vyavayi 9.17 Vikashi 9.18 Rasayana 9.19 Vajeekarana 9.20 Medhya | | | | |
|----|---|---|----|----|---|
| 10 | 10. Karmas of Dashemani Gana | 1 | 5 | 12 | 3 |
| 11 | 11. Principles of General Pharmacology 11. Principles of General Pharmacology 11. Drug definition, drug dosage forms, route of drug administration, pharmacokinetics (ADME), pharmacodynamics, Drug dose, principles of drug action, mechanism of drug action & bio- availability 11.1 Drugs Acting on Central Nervous System: Anaesthetics, Sedative Hypnotics, Antiepileptics, Antiparkinsonian, Antidepressants, Antianxiety Drugs, Opioid - Analgesics Drugs 11.2 Drugs Acting on Peripheral (somatic) Nervous System: Skeletal Muscle Relaxants, Local Anaesthetics 11.3 Autacoids and Related Drugs: Nonsteroidal, Anti-inflammatory (NSAIDs)/Antipyretic and Analgesics Drugs 11.4 Drugs for Respiratory Disorders:Bronchodilators, Aerosols/ Inhalants Expectorants, Antitussive Drugs 11.5 Cardiovascular Drugs: Antihypertensive, Antianginal Drugs 11.6 Drugs Acting on Kidney: Diuretics 11.7 Drugs Affecting Blood: Haematinics, Coagulants, Anticoagulants, Hypolipidaemic Drugs | 3 | 20 | 15 | 1 |

| | 11.8 Gastrointestinal Drugs: Antacid, Carminatives, Digestants, Antiemetics, Laxatives, Antidiarrhoeal, Hepatoprotective Drugs 11.9 Antibacterial Drugs: Antibiotics, Antitubercular Drugs 11.10 Antifungal, Antiviral, Antimalarial and Antihelmintic Drugs 11.11 Hormones and Related Drugs: Thyroid Hormone, Thyroid Inhibitors, Insulin, Oral Anti- diabetic, Hormonal Contraceptives, Uterine Stimulants, Uterine Relaxants Drugs 11.12 Miscellaneous Drugs: Antiseptics and Disinfectants, Vaccines, Vitamins, Water imbalance and IV fluids | | | | |
|----|--|---|---|---|---|
| 12 | 12. Mishraka Gana 12. Mishraka Gana: its composition, guna karma and therapeutic uses. 12.1 Brihatpanchamoola. 12.2 Laghupanchamoola. 12.3 Vallipanchamoola. 12.4 Kantakapanchamoola. 12.5 Trinapanchamoola. 12.6 Panchavalkala. 12.7 Triphala. 12.8 Trikatu. 12.9 Trimada. 12.10 Chaturusana. 12.12 Shadusana 12.13 Chaturbeeja. 12.15 Chaturajataka. 12.16 Panchatikta. 12.17 Chaturbhadra. 12.18 Trikarshika. | 3 | 6 | 6 | 2 |
| 13 | 13. Nomenclature of dravya as per Nighantu, Vedic taxonomy and Botany | 3 | 1 | 0 | 2 |
| 14 | 14. Prashasta Bheshaja, Bheshaja Pariksha and drug evaluation method with correlation as per Pharmacognosy | 3 | 1 | 1 | 2 |

| 15 | 15. Dravyasangrahana and Drug collection methods as per GFCP (Good Field collection practices) | 3 | 1 | 1 | 0 |
|-----|--|---|-----|-------|-------|
| 16 | 16. GCP (Good cultivation practices), seed bank, conservation of medicinal plants, knowledge about RET (Rear, Endangered & Threatened) medicinal plants. | 3 | 1 | 1 | 0 |
| 17 | 17. Abhava Pratinidhi Dravya (substitutes) | 3 | 1 | 1 | 1 |
| 18 | 18. Classifications and techniques of aqueous and alcoholic extracts | 3 | 1 | 0 | 2 |
| 19 | 19. Adverse drug reaction and Pharmacovigilance with recent updates | 3 | 1 | 1 | 2 |
| 20 | 20. NMPB (National Medicinal Plant Board), CCRAS (Central Council of Research in Ayurveda Sciences), API (Ayurvedic Pharmacopeia of India), GCTM (Global Centre for Traditional Medicine), PCIMH (Pharmacopeia Commission of Indian Medicine and Homeopathy) | 3 | 1 | 1 | 0 |
| 21 | 21. Vrikshayurveda and Ethno-medicine | 3 | 1 | 1 | 1 |
| 22 | 22. Network pharmacology and Bioinformatics | 3 | 2 | 1 | 1 |
| Tot | al Marks | 1 | 100 | 75 hr | 39 hr |

| Pap | er 2 Applied Dravyaguna | | | | |
|-----------|--|------------|-------------|------------------------|--------------------------------|
| Sr. No | A2 List of Topics | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
| 23 | 1. Bheshajavacharaniya (Criteria's to be considered for selection of drugs in vyadhis) | 2 | 5 | 1 | 6 |
| 24 | 2.1 Dravya (Drug) Nama-Guna-Karma Jnana | 2 | 55 | 45 | 10 |

- Amalaki
- Aragwadha
- Arjuna
- Ashoka
- Ashwagandha
- Ativisha
- Bala
- Beejaka
- Bhallataka
- Bharangi
- Bhrungaraja
- Bhumyamalaki
- Bilva
- Brahmi
- Chandana
- Chitraka
- Dadima
- Dhataki
- Dhamasa
- Eranda
- Gokshura
- Guduchi
- Guggulu
- Haridra
- Haritaki
- Hingu
- Jambu
- Jatamansi
- Jyotishmati
- Kanchanara
- Kantakari
- Kapikachhu
- Karkatshrungi
- Katuki
- Khadira
- Kumari
- Kutaja
- Latakaranja
- Lodhra
- Agnimanth
- Ahiphena (NK)
- Ajamoda (DK)
- Apamarga (DK)
- Asthishrunkhala
- Bakuchi
- Bruhati
- Chakramarda
- Dhanyaka
- Ela
- Gambhari

| | Japa Jatiphala Jeeraka (DK) Kalamegha Kampillaka Kulatha (NK) Kumkum Lajjalu Lavanga | | | | |
|----|--|---|----|----|----|
| 25 | 2.2 Dravya (Drugs) Nama -Guna-Karma-Jnana Madanphala Mandukaparni Manjishta Maricha Meshashrungi Methika Musta Nagkeshar Nimba Nirgundi Palasha Pashanabheda Patha Pippali Punarnava Rasona Sarapagandha Sairayak Shalmali(Mocharasa) Shankhapushpi Shatvari Shigru Shunthi Talisapatra (<i>NK</i>) Trivrut Tulasi Twak Usheera Vacha Varuna Vasa Vatsanabha | 3 | 40 | 29 | 20 |

| Vibhitaki Vidanga Yashtimadhu | | | |
|---|-----|-------|-------|
| Total Marks | 100 | 75 hr | 36 hr |

| Paper 1 Funda | umental Dravyaguna | | | | | | | | |
|-------------------------|---|----------------------|--|--|-------------------------|--|---------------------------------------|------------|-------------------|
| A3 Course outcome | B3 Learning Objective (At the end of the session, the students should be able to) | C3 Doma in/sub | D3 Must to know / desirable to know / Nice to know | E3 Level Does/ Show s how/ Know Know/ Know | F3 T-L meth od | G3 Assessment (Refer abbreviations) | H3 Form ative/ summ ative | I3 Term | J3 Integration |
| Topic 1 1.Dra | avyaguna Vigyana (Lecture :1 hours, Non lecture: 1 hours) | | | | | | | | |
| CO1,CO3 | Define Dravyaguna Vigyana. | СК | МК | K | L&PP T | P-VIVA | F&S | Ι | |
| CO1,CO3 | Explain the role of Dravyaguna Vigyana in clinical practice. | CC | МК | КН | L&G D | P-VIVA,C- INT | F&S | Ι | |
| Topic 2 2.Dra | avya (Lecture :5 hours, Non lecture: 4 hours) | -1 | 1 | 1 | | I | | 1 | 4 |
| CO1,CO5,CO 8 | Classify Dravya based on Utpatti,Yonibheda, Prayogabheda & Prabhavbheda. | СК | МК | K | L&PP T,LS | T-OBT,P- VIVA,P-POS | F&S | Ι | |
| CO1,CO5,CO 8 | Classify Dravya based on Doshaghnabheda, Rasabheda, Karmbheda (Dashemani & Sushrutokta Gana) | СК | МК | К | L&PP T,LS | T-OBT,P- VIVA,P-POS | F&S | Ι | |
| CO1,CO3 | Describe Panchabhoutikatwa of Dravya. | CC | МК | КН | DIS,P ER | T- EW,T- OBT,P-VIVA | F&S | Ι | |
| Topic 3 3. Gu | ina (Lecture :4 hours, Non lecture: 2 hours) | 1 | 1 | | 1 | 1 | | | 4 |
| | | | | | | | | | |

| CO1,CO2,CO 3 | Define Guna and describe its Panchabhoutikatva. | СК | МК | К | L&PP T,DIS ,LS | T- EW,P-VIV A,PRN,QZ | F&S | I |
|-----------------|---|-----|----|----|---------------------------|---------------------------------|-----|---|
| CO1 | State characteristics of Gurvadi Guna. | СК | МК | К | L&PP T,SD L | P-VIVA,PRN, QZ | F&S | I |
| CO1,CO2,CO 3 | Discuss Gurvadiguna in context to its Karma on Dosha, Dhatu and Mala with examples. | CC | МК | КН | L&PP T,L& GD,F C | T- EW,P-VIV A,PRN,OSPE | F&S | I |
| CO1,CO2,CO 3 | Enumarate & Summarize, clinical application of Gurvadi Guna with research updates. | CC | МК | кн | L&G D,BL, LS | T- EW,P- VIVA,PRN | F&S | Ι |
| CO1,CO2,CO 3 | Enlist Paradiguna with examples. | СК | МК | К | L&G D,PE R | T-EMI,P-VIV A,PRN,P-POS | F&S | Ι |
| CO1,CO2,CO 3 | Interpret clinical applications of Paradiguna. | CAP | МК | КН | L&PP T,DIS | T-EMI,P-VIV A,PRN,QZ | F&S | Ι |
| CO1,CO2,CO 3 | Discuss research updates of Paradiguna. | CC | МК | кн | L,TP W,LS | T-EMI,P-VIV A,PRN,CR- RED | F&S | I |
| Topic 4 4. Ra | sa (Lecture :7 hours, Non lecture: 4 hours) | | | | • | | - | |
| CO1,CO2,CO 3 | Define Rasa and interpret Meaning of "Rasa" in various contexts. | СК | МК | K | L&G D | P-VIVA,PUZ, M-CHT,INT | F&S | Ι |
| CO1,CO2 | Classify and compare shadarasa in relative correlation with taste of chemical constituents. | СК | МК | К | L&PP T,ED | P-VIVA,PUZ, M-CHT,INT | F&S | Ι |

| | | | | | U | | | | |
|-----------------|--|-----|----|----|------------------------------|--|-----|---|--|
| C01,C02 | State Rasa Utpatti and Panchabhoutika constitution of Shadrasa. | СК | МК | К | L&G D,PE R | P-VIVA,PUZ, M-CHT,INT | F&S | I | |
| C01,C02 | Discuss Rasopalabdhi. | CC | МК | КН | L&G D,SD L | P-VIVA,PUZ, M-CHT,INT | F&S | I | |
| CO1,CO2,CO 3 | Interpret pathway of taste perception & sites of taste receptors in the body | CC | МК | КН | L&PP T,L_ VC | T- EW,T-OBT ,P-VIVA,PRN ,PUZ,INT | F&S | I | |
| C01,C02 | Describe Guna and Lakshana of each Rasa. | CC | МК | КН | L&PP T | T-EMI,T- EW, P-VIVA,PRN, INT | F&S | I | |
| C01,C02 | Explain karma of each rasa on Dosha, Dhatu and Mala with examples. | CC | МК | КН | L&PP T,BS | T-EMI,T- EW, P-VIVA,PUZ, M-CHT,INT | F&S | I | |
| CO1,CO2 | Discuss Atiyoga of each rasa. | CC | МК | КН | L&PP T,PB L,PE R | T-EMI,P-VIV A,PRN,PUZ,I NT | F&S | I | |
| CO1,CO2,CO 3 | Interpret Clinical application of each rasa. | САР | МК | КН | L&PP T,DIS ,SDL, LS | T-EMI,T- EW, T-OBT,P- VIVA,INT | F&S | I | |
| CO1,CO2 | Discuss research updates of Shadrasa. | CC | МК | КН | DIS,S DL,L S | T- EW,P-VIV A,PUZ,INT,C R-RED | F&S | Ι | |

| CO1,CO2 | Define Anurasa. | СК | MK | К | L,LS | T-EMI,P- VIVA,INT | F&S | Ι | |
|--------------|--|-----|----|----|------------------------------|--|-----|---|---|
| CO1,CO2 | Interpret relevance of Anurarasa in clinical practice. | CAP | МК | КН | L&G D,FC | T-EMI,P-VIV A,PUZ,INT | F&S | Ι | |
| CO1,CO2 | Describe with justification Rasa sevanakrama as Aushadha. | CC | МК | КН | L&PP T,DIS | T-EMI,T- EW, P-VIVA,PRN, M-CHT,M- POS | F&S | Ι | |
| Topic 5 5. V | Vipaka (Lecture : 3 hours, Non lecture: 1 hours) | | | · | • | | • | | • |
| CO1 | Define Vipaka. | СК | МК | К | L | P-VIVA | F&S | Ι | |
| CO1 | State Vipaka lakshana. | СК | МК | К | L&G D | P-VIVA,INT | F&S | Ι | |
| CO1 | Describe the action of Trividha Vipaka on Dosha, Dhatu and Mala with examples. | CC | МК | КН | L&PP T,TP W,FC | T- EW,P- VIVA,PRN | F&S | Ι | |
| CO1,CO3 | Interpret clinical application of Vipaka. | CAP | МК | КН | L&PP T,DIS ,SDL, LS | P-VIVA,QZ | F&S | Ι | |
| CO2 | State Research updates of Vipaka. | СК | МК | К | L&PP T | P-VIVA,CR- RED | F&S | Ι | |
| CO1 | Explain Vipakopalabdhi (Determination of Vipaka) and Taratamya (Degree of variation). | CC | МК | КН | L&PP T,FC | P-VIVA,PUZ, M-CHT | F&S | Ι | |
| Topic 6 6. V | Virya (Lecture : 2 hours, Non lecture: 2 hours) | | | • | - | | | • | |
| CO1 | Define the lakshanas of Virya. | CK | МК | К | L,SD | P-VIVA,INT | F&S | Ι | |

| Differentiate Come and view | | | | | | | 1 1 |
|---|---|--|--|---|---|---|---|
| Differentiate Guna and virya. | CC | МК | КН | L&PP T,RP | P-VIVA,P- EXAM,O-QZ | F&S | I |
| Discuss Karma of Virya on Dosha, Dhatu and Mala. | CC | МК | КН | L&PP T,SD L,PL | P-VIVA,O- QZ,M-CHT | F&S | I |
| Explain clinical application of Virya. | CC | МК | КН | L&PP T,GB L,TU T | P-VIVA,O- QZ,INT | F&S | I |
| Discuss research updates of Virya. | CC | МК | КН | L&G D,DIS ,SDL | P-VIVA,P-EX AM,O-QZ,CR- RED | F&S | I |
| Discuss Viryaopalabdhi (Determination of Virya). | CC | МК | КН | L&G D | P-VIVA,QZ | F&S | I |
| rabhava (Lecture : 2 hours, Non lecture: 1 hours) | | | | | | | |
| Define and explain Prabhava with examples. | CC | МК | КН | L&PP T | P-VIVA | F&S | Ι |
| Describe Samanapratyayarabdha and Vichitrapratyayarabdha with examples. | CC | МК | КН | L&PP T,DIS ,TBL, BL | T- EW,P- VIVA,INT | F&S | I |
| Explain clinical application of Prabhava. | CC | МК | КН | L&G D,FC, LS | T- EW,P-VIV A,CR-RED | F&S | Ι |
| - - - | Explain clinical application of Virya. Explain clinical application of Virya. Discuss research updates of Virya. Discuss Viryaopalabdhi (Determination of Virya). rabhava (Lecture :2 hours, Non lecture: 1 hours) Define and explain Prabhava with examples. Describe Samanapratyayarabdha and Vichitrapratyayarabdha with examples. | Explain clinical application of Virya. CC Discuss research updates of Virya. CC Discuss Viryaopalabdhi (Determination of Virya). CC rabhava (Lecture :2 hours, Non lecture: 1 hours) CC Define and explain Prabhava with examples. CC Describe Samanapratyayarabdha and Vichitrapratyayarabdha with examples. CC | Explain clinical application of Virya. CC MK Discuss research updates of Virya. CC MK Discuss Viryaopalabdhi (Determination of Virya). CC MK rabhava (Lecture :2 hours, Non lecture: 1 hours) CC MK Define and explain Prabhava with examples. CC MK Describe Samanapratyayarabdha and Vichitrapratyayarabdha with examples. CC MK | Explain clinical application of Virya.CCMKKHDiscuss research updates of Virya.CCMKKHDiscuss Viryaopalabdhi (Determination of Virya).CCMKKHCCMKKHDefine and explain Prabhava with examples.CCMKKHDescribe Samanapratyayarabdha and Vichitrapratyayarabdha withCCMKKH | Image: Second | Image: Second | Image: Second |

| CO1,CO2 | Discuss research updates of Prabhava. | CC | МК | КН | L&G D,SD L | T- EW,P-VIV A,CR-RED | F&S | I |
|---------------------|--|----------|-----------------|-----------|---------------------------|-----------------------------|-----|-------|
| Topic 8 8. Int | terrelation of Rasa-Guna-Virya-Vipaka-Prabhava (Lecture | e :1 hou | rs, Non lecture | : 2 hours |) | | | · · · |
| CO1 | Interpret the interrelation of Rasa-Guna-Virya-Vipaka-Prabhava with respect to their strength- Pharmacodynamics. | CAP | МК | КН | L&PP T,TP W,PL | P-VIVA,CL- PR | F&S | I |
| Topic 9 9. Ka | rma (Lecture :9 hours, Non lecture: 5 hours) | | | | | | | |
| CO1 | Define Karma. | СК | МК | К | L | T-OBT,P- VIVA,QZ | F&S | Ι |
| CO1 | Discuss Karma lakshana. | CC | МК | КН | L&G D | T-OBT,P- VIVA,QZ | F&S | Ι |
| CO1,CO2,CO 4,CO5 | Explain Deepan karma in relation with Appetizers. | CC | МК | КН | L&G D,BL | T- EW,T-OBT ,P-VIVA,QZ | F&S | Ι |
| CO1,CO2,CO 3,CO4 | Critically analyze Deepan dravyas with its gunas and application in various clinical conditions. | CAP | МК | КН | L&PP T,PB L,GB L | T-OBT,P- VIVA,QZ ,DEB | F&S | I |
| CO1,CO2,CO 3,CO4 | Explain Pachan karma in relation with Digestives. | CC | МК | КН | L&PP T | T-OBT,P- VIVA,QZ | F&S | Ι |
| CO1,CO2,CO 3,CO4 | Critically analyze Pachan dravyas with gunas and discuss its application in various clinical conditions. | CAN | МК | КН | L&PP T,PB L,PE R | T-EMI,T- OBT,P-VIVA | F&S | I |
| CO1,CO2,CO | Explain Samshodhan karma in relation with contemporary | CC | МК | КН | L_VC | T-OBT,P- | F&S | Ι |

| 4 | pharmacological action. | | | | ,PL | VIVA,QZ | | | |
|---------------------|--|----|----|----|----------------------|-----------------------------|-----|---|--|
| CO1,CO3,CO 4 | Discuss Samshohan karma and its clinical application. | CC | МК | КН | PBL, RP,PE R | T- EW,T-CS,T- OBT,P-VIVA | F&S | I | |
| CO1,CO2,CO 3,CO4 | Explain Samshamana karma in relation with contemporary pharmacological action. | CC | МК | КН | L&G D,BL | T-EMI,T- OBT,P-VIVA | F&S | Ι | |
| CO1,CO2,CO 3,CO4 | Describe Samshamana karma and its clinical application. | CC | МК | КН | L&PP T,CB L,PL | T-EMI,T-CS,P- VIVA,QZ | F&S | I | |
| CO1,CO2,CO 3 | Explain Anuloman karma in relation with Carminative. | CC | MK | КН | L_VC ,DIS | T-EMI,T-OBT ,P-VIVA,DEB | F&S | I | |
| CO1,CO3 | Describe Anuloman karma and its clinical application. | CC | МК | КН | L&PP T,PB L,LS | T-OBT,P- VIVA,QZ | F&S | Ι | |
| CO1,CO2,CO 3,CO4 | Explain Sransana karma in relation with contemporary pharmacological action. | CC | МК | КН | L&PP T | T-EMI,T-OBT ,P-VIVA,DEB | F&S | I | |
| C01,C03 | Discuss Sransan karma and its clinical application. | CC | МК | КН | L&PP T,PB L,LS | T-OBT,P- VIVA,QZ ,DEB | F&S | Ι | |
| CO1,CO2,CO 3,CO4 | Explain Bhedana karma in relation with strong laxative action | CC | МК | КН | L_VC ,FC | T-EMI,T-OBT ,P-VIVA,DEB | F&S | Ι | |
| CO1,CO3 | Discuss Bhedan karma and its clinical application. | CC | МК | КН | L&PP T,DIS | T-OBT,P- VIVA,QZ | F&S | I | |
| CO1,CO2,CO 3,CO4 | Explain Rechan karma in relation with Purgative. | CC | МК | КН | L&PP T | T-EMI,T- OBT,P-VIVA | F&S | Ι | |

| CO1,CO3 | Discuss Rechan karma and its clinical application. | CC | MK | КН | L&PP T,DIS | T-OBT,P- VIVA,QZ | F&S | Ι | |
|---------------------|---|----|----|----|----------------------|-----------------------------|-----|---|--|
| CO1,CO3 | Discuss Chhedan karma and its clinical application. | CC | MK | КН | L&PP T,CB L,LS | T-EMI,T- OBT,P-VIVA | F&S | Ι | |
| CO1,CO2,CO 3,CO4 | Explain Lekhan karma in relation with contemporary pharmacological action. | CC | МК | КН | L&G D,BL | T-EMI,T- OBT,P-VIVA | F&S | Ι | |
| CO1,CO3 | Discuss Lekhan karma and its clinical application. | CC | МК | КН | L&PP T,DIS ,PL | T-OBT,P- VIVA,QZ ,DEB | F&S | Ι | |
| CO1,CO2,CO 3,CO4 | Explain Grahi karma in relation with contemporary pharmacological action bowel binding. | CC | МК | КН | L_VC | T-EMI,T- OBT,P-VIVA | F&S | Ι | |
| CO1,CO3 | Discuss of Grahi karma and its clinical application. | CC | МК | КН | L&G D,TB L | T-OBT,P- VIVA,QZ | F&S | Ι | |
| CO1,CO2,CO 3,CO4 | Explain Stambhan karma in relation with contemporary pharmacological action. | CC | МК | КН | L&PP T,FC | T-EMI,T-OBT ,P-VIVA,DEB | F&S | Ι | |
| CO1,CO3 | Discuss Stambhan karma and its clinical application. | CC | MK | КН | L&G D,PB L | T-EMI,T-OBT ,P-VIVA,DEB | F&S | Ι | |
| CO1 | Discuss Madakari karma with examples. | CC | МК | КН | L,DIS | T-OBT,P- VIVA,QZ | F&S | Ι | |
| CO1,CO3 | Discuss Pramathi karma and its clinical application. | CC | МК | КН | L&PP T,DIS | T-EMI,T- OBT,P-VIVA | F&S | Ι | |
| CO1 | Discuss Abhishyandi karma with examples. | СК | МК | К | L,DIS | T-EMI,T-OBT | F&S | Ι | |

| | | | | | | ,P-VIVA,DEB | | |
|---------------------|--|---------|-----|----|-----------------------------|--|-----|---|
| CO1 | Discuss Vyavayi karma with examples. | CC | МК | КН | L,PE R | T-EMI,T-OBT ,P-VIVA,DEB | F&S | Ι |
| CO1 | Discuss Vikashi karma with examples. | CC | МК | КН | L,DIS | T-OBT,P- VIVA,QZ | F&S | Ι |
| CO1,CO2 | Explain Rasayan karma in relation with Rejuvenators. | CC | МК | КН | L&PP T,DIS ,BL | T-EMI,P- VIVA,QZ | F&S | I |
| CO1,CO3 | Analyze types of Rasayan dravyas with its gunas and discuss its clinical application with research updates. | CAN | МК | КН | L&G D | T-EMI,T-OBT ,P-VIVA,DEB ,CR-RED | F&S | I |
| CO1,CO2 | Explain Vajeekaran karma in relation with Aphrodisiacs. | CC | МК | КН | L&G D,PL | T-OBT,P- VIVA,QZ | F&S | Ι |
| CO1,CO2,CO 3 | Critically Analyze the types of Vajeekaran dravyas with their guna karmas and discuss its clinical application with research updates | CAN | МК | КН | L&PP T,PB L,ML, LS | T-OBT,P- VIVA,QZ ,DEB,CR- RED | F&S | I |
| CO1,CO2 | Explain Medhya karma in relation with contemporary pharmacological actions. | CC | МК | КН | L&PP T | T-EMI,T-OBT ,P-VIVA,DEB | F&S | Ι |
| CO1,CO2,CO 3 | Critically analyze Medhya dravya and discuss its clinical application with research updates. | CAN | МК | КН | L&PP T,PL, PER | T-OBT,P- VIVA,QZ ,WP,CR-RED | F&S | Ι |
| Topic 10 10. | Karmas of Dashemani Gana (Lecture :12 hours, Non lecture | : 3 hou | rs) | | | | | |
| CO1,CO8 | Discuss Charakokta Dashemani karmas with their rasa, guna, vipak, virya, dhosha karma, botanical identity & pharmaco- | CC | МК | КН | L&PP T,DIS | P-VIVA,P- REC,QZ ,M- | F&S | I |

| | therapeutic action of individual drugs. | | | | ,FC,R EC | CHT,M-POS | | | |
|-------------|--|---------|-------------|----|-------------------------------|-------------------------------------|-----|-----|--|
| Topic 11 11 | . Principles of General Pharmacology (Lecture :15 hours, No | n lectu | e: 1 hours) | | • | | | | |
| CO4,CO9 | Define Pharmacology and discuss Principles of general Pharmacology. | СК | МК | K | L&PP T | PRN,QZ | F&S | Ι | |
| CO4,CO9 | Discuss drug definition, drug dosage forms and route of drug administration. | CC | МК | КН | L_VC | T- EW,P- VIVA,QZ | F&S | Ι | |
| CO4,CO9 | Explain pharmacokinetics (ADME) drug and pharmacodynamics. | CC | МК | КН | L_VC ,DIS | P-VIVA,PRN | F&S | Ι | |
| CO4,CO9 | Discuss Drug dose, Principles of drug action, Mechanism of drug action & Bioavailability | CC | МК | КН | L_VC ,PER | P-VIVA,QZ | F&S | Ι | |
| CO9 | Define, Describe mode of action & Discuss types with examples of following drugs acting on CNS with examples of Anaesthetics, Sedative-Hypnotic, Antiepileptic, Antiparkinsonian, Antidepressants, Antianxiety and Opioid Analgesics Drugs | CC | МК | КН | L&PP T,PB L,PrB L,FC | T- EW,T-OBT ,P-VIVA,QZ ,C-INT | F&S | III | |
| CO9 | Define, Describe mode of action & Discuss types with examples of following drugs acting on Peripheral (somatic) Nervous System with examples of Skeletal Muscle Relaxants and Local Anaesthetics Drugs. | CC | МК | КН | L&PP T,PB L,FC | T- EW,T-OBT ,P-VIVA,QZ | F&S | III | |
| CO9 | Define, Describe mode of action & Discuss types with examples of following drugs acting on Autacoids and Related of Nonsteroidal Antiinflammatory (NSAIDs), Antipyretic and Analgesics Drug | CC | МК | КН | L&PP T,PB L,FC | T- EW,T-OBT ,P-VIVA,PRN | F&S | Ш | |
| CO9 | Define, Describe mode of action & Discuss types with examples of following drugs acting on Respiratory Disorders - | CC | МК | КН | L&PP T,PB | T-OBT,P- VIVA,PRN | F&S | III | |

| | Bronchodialators, Aerosols/ Inhalants, Expectorants and Anti tussives Drugs | | | | L,BL | | | | |
|-----|---|----|----|----|-----------------------------|----------------------------|-----|-----|--|
| CO9 | Define, Describe mode of action & Discuss types with examples of following drugs acting on Cardiovascular Drugs as Antihypertensive and Antianginal Drugs | CC | МК | KH | L_VC ,FC | T-OBT,P- VIVA,PRN | F&S | III | |
| CO9 | Define, Describe mode of action & Discuss types with examples of following drugs acting on Kidney as Diuretics | CC | МК | KH | L&PP T,TP W,BL | T-OBT,P- VIVA,QZ | F&S | III | |
| CO9 | Define, Describe mode of action & Discuss types with examples of following drugs acting as Haematinics, Coagulants, Anticoagulants and Hypolipidaemic Drugs | CC | МК | KH | L&PP T,PB L,BL | T- EW,T- OBT,P-VIVA | F&S | III | |
| CO9 | Define, Describe mode of action & Discuss types with examples of following drugs acting on Gastrointestinal tract as Antacid, Carminatives, Digestants, Antiemetics, Laxatives, Antidiarrhoeal and Hepatoprotective Drugs | CC | МК | КН | L&PP T,L& GD,L _VC | T- EW,T-OBT ,P-VIVA,QZ | F&S | III | |
| CO9 | Define, Describe mode of action & Discuss types with examples of following drugs acting as Antibiotics and Antitubercular. | CC | МК | KH | L&PP T,FC, GBL | T- EW,P- VIVA,QZ | F&S | III | |
| CO9 | Define, Describe mode of action & Discuss types with examples of following drugs acting as Antifungal, Antiviral, Antimalarial and Anthelmintic Drugs | CC | МК | КН | L&PP T,PB L,GB L | T- EW,T-OBT ,P-VIVA,QZ | F&S | III | |
| CO9 | Define, Describe mode of action & Discuss types with examples of following drugs acting on Hormones and Related Drugs as Thyroid Hormone, Thyroid Inhibitors, Insulins, Oral Antidiabetic, Hormonal Contraceptives, Uterine Stimulants and Uterine Relaxants Drugs. | CC | МК | КН | L&PP T,BL, PER | T- EW,T-OBT ,P-VIVA,PRN | F&S | Ш | |

| CO9 | Define, Describe mode of action & Discuss types with examples of following drugs acting on as Antiseptics , Disinfectants, Vaccines, Vitamins, Water imbalance and IV | CC | МК | КН | L&PP T,BL, PER | T- EW,T- OBT,P-VIVA | F&S | III | |
|-------------|---|----|----|----|-----------------------|-------------------------------------|-----|-----|--|
| Topic 12 12 | . Mishraka Gana (Lecture :6 hours, Non lecture: 2 hours) | · | · | · | · | | • | • | |
| CO1,CO3 | Explain Brihatpanchamoola composition. | CC | МК | КН | L&PP T,ED U | T- EW,P-VIV A,P-POS,QZ ,M-CHT | F&S | III | |
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Brihatpanchamoola. | CC | МК | КН | L&PP T,DIS ,TBL | T- EW,P-VIV A,P-POS,QZ ,M-CHT | F&S | III | |
| CO1,CO3 | Explain Laghupanchamoola composition. | CC | МК | КН | L&G D | T- EW,P-VIV A,P-POS,QZ ,M-CHT | F&S | Ш | |
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Laghupanchamoola. | CC | МК | КН | L&PP T,DIS ,PL | T- EW,P-VIV A,P-POS,QZ | F&S | III | |
| CO1,CO3 | Explain Vallipanchamoola composition. | CC | МК | КН | L&PP T | T- EW,P-VIV A,P-POS,QZ ,M-CHT | F&S | III | |
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Vallipanchamoola. | CC | МК | КН | L&G D,PE R | T- EW,P- VIVA,QZ | F&S | III | |
| CO1,CO3 | Explain Kantakapanchamoola composition. | CC | МК | КН | L&PP T,BS, | T- EW,P- VIVA,QZ | F&S | III | |

| | | | | | TPW | | | | |
|---------|---|----|----|----|----------------------|--------------------------------|-----|-----|--|
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Kantakapanchamoola. | CC | МК | КН | L&PP T,LS, PER | P-POS,QZ ,M- CHT | F&S | ш | |
| CO1,CO3 | Explain Trinapanchamoola composition. | CC | MK | КН | L_VC ,PER | P-VIVA,P- EXAM,QZ | F&S | III | |
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Trinapanchamoola. | CC | МК | КН | L&PP T,CB L,PL | T- EW,P- VIVA,M-CHT | F&S | ш | |
| CO1,CO3 | Explain Panchavalkala composition. | CC | МК | КН | L&PP T,BL, GBL | P-VIVA,P- POS,QZ | F&S | ш | |
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Panchavalkala. | CC | MK | КН | L&PP T,FC | T-CS,T-OBT, P-VIVA,QZ | F&S | III | |
| CO1,CO3 | Explain Triphala composition | CC | MK | КН | L,DIS | T- EW,P- VIVA,P-POS | F&S | III | |
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Triphala. | CC | МК | КН | L&PP T,PE R | T-OBT,P-VIV A,P- EXAM,QZ | F&S | Ш | |
| CO1,CO3 | Explain Trikatu composition. | CC | МК | КН | L&PP T,PL | T-EMI,P- VIVA,QZ | F&S | III | |
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Trikatu | CC | МК | КН | L&PP T,PL | T-OBT,P- VIVA,P-POS | F&S | III | |
| CO1,CO3 | Explain Trimada composition | CC | МК | КН | L,DIS | T- EW,P- VIVA,QZ | F&S | III | |

| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Trimada. | CC | МК | KH | L&PP T,DIS ,TUT | T- EW,P- VIVA,QZ | F&S | III | |
|---------|---|----|----|----|-----------------------|-----------------------------------|-----|-----|--|
| CO1,CO3 | Explain Chaturusana composition. | CC | МК | KH | L&PP T | T-OBT,P- VIVA,P-POS | F&S | III | |
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Chaturusana. | CC | МК | KH | L&PP T,FC | P-VIVA,P- POS,QZ | F&S | III | |
| CO1,CO3 | Explain Panchakola composition. | CC | МК | КН | L&PP T,L_ VC | P-VIVA,QZ | F&S | III | |
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Panchakola. | CC | МК | KH | L&PP T,DIS | T- EW,T-CS,P- VIVA,QZ | F&S | III | |
| CO1,CO3 | Explain Shadusana composition. | CC | МК | KH | L&PP T,PL | T-OBT,P- VIVA,P-POS | F&S | III | |
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Shadusana | CC | МК | KH | L&PP T,FC | T- EW,P- VIVA,QZ | F&S | III | |
| CO1,CO3 | Explain Chaturbeeja composition. | CC | МК | КН | L&PP T,L_ VC | T-OBT,P-VIV A,P-EXAM | F&S | III | |
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Chaturbeeja | CC | МК | КН | L&PP T,PE R | T- EW,P- VIVA,QZ | F&S | III | |
| CO1,CO3 | Explain Trijataka composition. | CC | МК | КН | L_VC ,DIS, SDL | T-OBT,P-VIV A,P-EXAM,P- POS | F&S | III | |

| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Trijataka | CC | МК | KH | L&PP T,PL | T- EW,P- VIVA,P-POS | F&S | III | |
|--------------------|---|----------|---------------|----------|----------------------|---------------------------|-----|-----|--|
| CO1,CO3 | Explain Chaturajataka composition. | CC | МК | КН | L_VC ,PER | T-OBT,P- VIVA,QZ | F&S | III | |
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Chaturajataka. | CC | МК | КН | L&PP T,DIS | T- EW,P- VIVA,P-POS | F&S | III | |
| CO1,CO3 | Explain Panchatikta composition. | CC | МК | КН | L&PP T,FC | T-OBT,P-VIV A,P-REC,QZ | F&S | III | |
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Panchatikta. | CC | МК | KH | L&PP T,PL | T- EW,P- VIVA,P-POS | F&S | III | |
| CO1,CO3 | Explain Chaturbhadra composition. | СК | МК | K | L,DIS | T-OBT,P- VIVA,QZ | F&S | III | |
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Chaturbhadra. | CC | МК | KH | L&PP T,FC | T-EMI,P- VIVA,QZ | F&S | III | |
| CO1,CO3 | Explain Trikarshika composition. | CC | МК | KH | L,DIS | T-OBT,P-VIV A,P-EXAM | F&S | III | |
| CO1,CO3 | Describe Guna karma and combined therapeutic effect of Trikarshika. | CC | МК | КН | L&PP T,DIS ,PL | T-OBT,P- VIVA,QZ | F&S | III | |
| Topic 13 13 | 8. Nomenclature of dravya as per Nighantu, Vedic taxonom | y and Bo | tany (Lecture | :0 hours | , Non lea | cture: 2 hours) | • | | |
| CO1 | Describe the Nomenclature of dravya as per Raj Nighantu. | CC | МК | КН | L&PP T,FC, RP | P-VIVA,PRN, P-ID,QZ | F&S | III | |
| CO1 | Explain the Nomenclature of dravya as per Vedic taxonomy. | CC | МК | KH | L&PP T | P-VIVA,P- ID,QZ | F&S | III | |

| CO1 | Discuss the Nomenclature of dravya as per botany. | CC | МК | КН | L&PP T,BL, PER | P-VIVA,P- ID,QZ | F&S | III | |
|-----------------------------------|--|---------|-----------------|------------|---------------------------|---------------------|---------|------------|-------|
| Topic 14 1 4 lecture: 2 ho | 4. Prashasta Bheshaja, Bheshaja Pariksha and drug evaluation urs) | on meth | od with corre | elation as | per Pha | rmacognosy (| Lecture | :1 hours | , Non |
| CO1,CO5 | Describe Prashasta Bheshaja. | CC | MK | KH | L&G D,PL | P-VIVA,QZ | F&S | III | |
| C01,C05 | Explain Bheshaja Pariksha of Charaka samhita vimana sthana. | CC | МК | КН | L&G D,SD L,LS | P-VIVA,QZ ,M-CHT | F&S | III | |
| CO1,CO5 | Discuss drug evaluation method in correlation with Pharmacognosy. | CC | MK | KH | L&PP T,DIS | P-VIVA,QZ | F&S | III | |
| Topic 15 15 hours) | 5. Dravyasangrahana and Drug collection methods as per GI | FCP (Go | ood Field colle | ection pra | octices) | (Lecture :1 hour | rs, Non | lecture: (|) |
| CO1,CO2 | Discuss Dravyasangrahana and Drug collection methods as per GFCP (Good Field collection practices). | CC | DK | KH | L&PP T,PE R | P-VIVA,PUZ, CHK | F&S | III | |
| C01,C02 | Discuss Drug collection methods as per GFCP (Good Field collection practices). | CC | DK | КН | L&PP T,DIS ,PrBL | P-VIVA,PUZ, CHK | F&S | III | |
| - | 5. GCP (Good cultivation practices), seed bank, conservation) medicinal plants. (Lecture :1 hours, Non lecture: 0 hours) | of med | icinal plants, | knowledg | ge about | RET (Rear, E | ndange | red & | |
| CO2 | Discuss good cultivation practices, seed bank, conservation of medicinal plants, knowledge about RET (Rear, Endangered & Threatened) medicinal plants. | CC | DK | КН | L&PP T,L_ VC,F C | P-VIVA,M- POS | F&S | III | |

| - | . Abhava Pratinidhi Dravya (substitutes) (Lecture :1 hours, N | Non lect | ure: 1 hours) |) | | | | | |
|---------------------------------|--|----------------------|---------------|-------------|---------------------|-------------------------------|---------|-------|------|
| CO1,CO7 | Discuss the concept of Abhava pratinidhi dravya (substitutes) as per Bhavaprakasha. | CC | MK | KH | L&G D,BS, EDU | P-VIVA,QZ | F&S | III | |
| Topic 18 18 | . Classifications and techniques of aqueous and alcoholic extr | acts (I | Lecture :0 ho | urs, Non le | cture: 2 | hours) | • | • | • |
| CO2,CO6 | Appraise the techniques of aqueous and alcoholic extracts of medicinal plants. | CC | DK | КН | L_VC ,D | P- VIVA,DOPS | F&S | III | |
| Topic 19 19 | . Adverse drug reaction and Pharmacovigilance with recent | updates | 6 (Lecture :1 | hours, No | n lecture | : 2 hours) | | • | |
| CO2,CO8 | Explain adverse drug reaction and pharmacovigilance in ayurveda with recent updates. | CC | MK | КН | T,L& GD,L | P-VIVA,PRN, QZ ,M-CHT | F&S | III | V-RS |
| | | | | | S | | | | |
| Pharmacope | . NMPB (National Medicinal Plant Board), CCRAS (Central eia of India), GCTM (Global Centre for Traditional Medicin y) (Lecture :1 hours, Non lecture: 0 hours) | | | - | veda Sci | | - | | |
| Pharmacope | eia of India), GCTM (Global Centre for Traditional Medicin | e), PCI | | - | veda Sci | | - | | |
| Pharmacope Homeopathy CO2 | Pia of India), GCTM (Global Centre for Traditional Medicinal) (Lecture :1 hours, Non lecture: 0 hours) State NMPB (National Medicinal Plant Board), CCRAS (Central Council of Research in Ayurveda Sciences), API (Ayurvedic Pharmacopeia of India), GCTM (Global Centre for Traditional Medicine) and PCIMH (Pharmacopeia Commission of Indian) | е), РСІ СК | MH (Pharm | nacopeia (| veda Sci Commiss | sion of Indian M P-VIVA,QZ | Aedicir | e and | |

| | CO2 | Describe Network Pharmacology and Bioinformatics. | CC | NK | КН | | P-VIVA,CR- RED | F&S | III | |
|---|-----|---|----|----|----|------|-------------------|-----|-----|--|
| L | | | | | | 2,20 | | | | |

| A3 | B3 | C3 | D3 | E3 | F3 | G3 | Н3 | I3 | J3 |
|---------------------------|---|----------------|--|--|----------------------------|--|---------------------------------|------|-------------|
| Course outcome | Learning Objective (At the end of the session, the students should be able to) | Doma in/sub | Must to know / desirable to know / Nice to know | Level Does/ Show s how/ Know s how/ Know | T-L meth od | Assessment (Refer abbreviations) | Form ative/ summ ative | Term | Integration |
| Topic 1 1. B | heshajavacharaniya (Criteria's to be considered for selection | n of dru | gs in vyadhis) | (Lecture | e :1 hou | s, Non lecture: | 6 hours) | | |
| CO5 | Interpret the selection of appropriate drugs in different vyadhis as | CAP | MK | KH | L&PP | T- EW,P- | F&S | II | H-RN |
| | per criteria's mentioned in Bheshajavacharaniya (as per As. Sa. Su 23) | | | | T,CB L,PrB L,SD L | VIVA,QZ | | | ,H- SW |
| Topic 2 2.1 | | s, Non le | ecture: 10 hours) | | T,CB L,PrB L,SD | , | | | ,H- |
| Topic 2 2.1 CO3 | Su 23) | s, Non le | ecture: 10 hours) | | T,CB L,PrB L,SD | , | F&S | II | ,H- |

| | | | | | T,DIS ,ML | ,P-VIVA,QZ | | | |
|--------------------|---|----------|------------------|-----|-----------------------|-------------------------------|-----|-----|---------------|
| CO5 | Explain Amayikaprayoga used in Vyadhi (Disease) pertaining to various Srotas and Vyadhiavastha (Stage). | CC | МК | кн | L&G D,BS, CBL | T-EMI,T- OBT,P-VIVA | F&S | II | |
| CO5 | Indicate the Kalpana (dosage form), Matra (Dose), Anupana (Vehicle), Marga(Route), Sevana kala (Time of administration), Kalavadhi (Duration) and Pathya-pathya) of following drugs. | САР | МК | КН | L&PP T,DIS ,GBL | T-EMI,T-OBT ,P-VIVA,PRN | F&S | II | V-RS, H-SW |
| CO2 | Enlist active phyto-constituents & important formulations Discuss research updates of following drugs. | СК | МК | K | L&PP T,ML | T-OBT,P-VIV A,CR-RED | F&S | Π | |
| CO8 | Enlist botanical name & family. Explain main synonyms as per Bruhatryees and Bhavaprakasha.Vernacular name (Hindi,English and local name) of following drugs. | СК | МК | кн | L&PP T,DIS | T-OBT,P- VIVA,QZ ,O- QZ | F&S | II | |
| CO8 | Demonstrate external morphology-habit, root, leaf, stem, flower, inflorescence, fruit, seed and officinal useful parts of following drugs. | CC | МК | кн | L_VC ,DIS, BS | T-OBT,P- VIVA,O-QZ | F&S | II | |
| C07 | Describe varieties, grahyagrahyatwa Adulterants, substitute and toxic effects of following drugs wherever applicable | CC | МК | КН | L&G D | T- EW,T-OBT ,P-VIVA,QZ | F&S | II | H-AT |
| Topic 3 2.2 | Dravya (Drugs) Nama -Guna-Karma-Jnana (Lecture :29 hou | ırs, Non | lecture: 20 hour | rs) | | | | | |
| CO3 | Specify useful parts with its Rasapanchaka of following drugs | СК | МК | К | L&PP T,DIS | T-EMI,T-OBT ,P-VIVA,QZ | F&S | III | |
| CO4 | Describe karma, agryakarma and dosha karma of following drugs. | CC | МК | кн | L&PP T,DIS ,BS | T-OBT,P- VIVA,QZ | F&S | III | |
| CO5 | Explain Amayikaprayoga used in Vyadhi (Disease) pertaining to | CC | МК | КН | L&PP | T-OBT,P- | F&S | III | |

| | various Srotas and vyadhiavastha (Stage). | | | | T,DIS ,CBL | VIVA,QZ | | | |
|-----|---|-----|----|----|-----------------------|----------------------------|-----|-----|---------------|
| CO5 | Indicate the Kalpana(dosage form), Matra (Dose), Anupana (Vehicle), Marga (Route), Sevana kala (Time of administration), Kalavadhi (Duration) and Pathya-pathya) of following drugs. | САР | МК | КН | L&PP T,DIS ,ML | T-EMI,P- VIVA | F&S | Ш | V-RS, H-SW |
| CO2 | Enlist active phyto-constituents & important formulations. Discuss research updates of following drugs. | СК | MK | K | L&G D,BS | T-EMI,T-OBT ,P-VIVA,QZ | F&S | III | |
| CO8 | Enlist botanical name & family. Explain main Synonyms as per Bruhatryees and Bhavaprakasha. Vernacular name (Hindi, English and local name) of following drugs. | СК | МК | К | L&G D,FC, ML | T-OBT,P- VIVA,QZ | F&S | ш | |
| CO8 | Demonstrate external morphology-habit, root, leaf, stem, flower, inflorescence, fruit, seed and officinal useful parts of following drugs. | CC | МК | КН | L_VC ,ML | T-OBT,P- VIVA,QZ | F&S | Ш | |
| C07 | Describe varieties, grhyahrahyatwa, adulterants, substitute and toxic effects of following drugs wherever applicable. | CC | МК | КН | L&PP T,DIS ,EDU | T-EMI,T-OBT ,P-VIVA,PUZ | F&S | III | H-AT |

| PRACTICALS (Marks-100) | | | |
|------------------------|--|------|-------|
| S.No | List of Topics | Term | Hours |
| 1 | 1. Assessment and Understanding the relation between Parthivatwa & subjective/ objective parametric tests | 1 | 10 |
| 2 | 2. Assessment of objective parametric measures of Guna | 1 | 12 |
| 3 | 3. Assessment of Rasa | 1 | 6 |
| 4 | 4.Comparative organoleptic and macroscopic examination | 1 | 23 |
| 5 | 5. Microscopic Identification of genuine and adulterated drug | 1 | 4 |
| 6 | 6. Demonstration of skills to identify the medicinal plants in the college garden. | 1 | 10 |
| 7 | 7. Out campus visit (Cultivated gardens, Tissue culture lab, Herbaria, Pharmacognosy lab, Quality control lab and Forest plant demonstration) | 1 | 10 |
| 8 | 8. Dravya prayoga | 1 | 12 |
| 9 | 9. Physico-chemical study | 2 | 8 |
| 10 | 10. Phytochemical | 2 | 4 |
| 11 | 11. Thin Layer Chromatography (TLC) technique | 2 | 2 |
| 12 | 12. Demonstration of skills to identify the medicinal plants in the college garden | 2 | 10 |
| 13 | 13. Out campus visit (cultivated gardens & In-situ plant demonstration) | 2 | 10 |
| 14 | 14. Ekala dravya prayoga | 2 | 10 |
| 15 | 15. Different Cultivation technique including methods mentioned in Vrikshayurveda | 2 | 6 |
| 16 | 16. Exercise on Network pharmacology | 3 | 6 |
| 17 | 17. Preparations of digital herbarium | 3 | 2 |
| 18 | 18. Demonstration of skills to identify the medicinal plants in the college garden | 3 | 10 |
| 19 | 19. Out campus visit (cultivated gardens & In-situ plant demonstration) | 3 | 10 |
| 20 | 20. Ekala dravya prayoga | 3 | 10 |

Table 4: Learning objectives (Practical)

| A4 | B4 | C4 | D4 | E4 | F4 | G4 | H4 | I4 | K4 |
|-------------------|--|----------------|--|--|-------------------|--|----------------|------|-----------------|
| Course outcome | Learning Objective (At the end of the session, the students should be able to) | Doma in/sub | Must to know / desirable to know / Nice to know | Level Does/ Show s how/ Know s how/ Know | T-L meth od | Assessment (Refer abbreviations) | Form ative/ | Term | Integr ation |
| Topic 1 1. As | sessment and Understanding the relation between Parthiva | twa & s | ubjective/ obje | tive pa | rametr | ic tests | | | |
| CO1,CO6 | Observe the objective parametric measures to understand the relation between Parthivatwa by Density (bulk) of Asthishrnkhala, Sariva, Vidari, Maricha, Shatavari, Jambu, Godhuma & Ushira. | PSY- GUD | МК | КН | РТ | P-VIVA | F&S | I | |
| CO1,CO6 | Observe the objective parametric measures to understand the relation between Jaliyatwa by Viscosity, Moisture content of Kumari, Vidari, Sariva, Shunthi, Ikshu, Usheera, Kamala & Apamarga. | PSY- GUD | МК | КН | РТ | P-VIVA | F&S | I | |
| CO1,CO6 | Observe the objective parametric measures to understand the relation between Aagneyatwa by Moisture content of Shunthi, Shatavari, Maricha, Dhataki, Chitraka, Gokshura, Hingu & Chandana. | PSY- GUD | МК | КН | РТ | P-VIVA | F&S | Ι | |
| CO1,CO6 | Observe the objective parametric measures to understand the relation between Vayaviyatwa by Fat content & Bulk density of Usheera, Ashwagandha, Nimba, Vidari, Khadira, Tila, Jambu & Kapikacchu. | PSY- GUD | МК | КН | PT,D_ L | P-VIVA | F&S | Ι | |

| CO1,CO6 | Observe the objective parametric measures to understand the relation between Aakashiyatwa by Bulk density of Usheera, Kumari, Apamarga, Jeeraka & Jatamansi. | PSY- GUD | МК | КН | PT,D_ L | P-VIVA | F&S | Ι | |
|---------|--|-------------|----|----|------------|------------------|-----|---|--|
| CO1,CO6 | Participate in the methods of specific gravity (Solid) and bulk desity of Asthishrukhala, Sariva, Vidari, Maricha, Shatavari, Jambu, Godhum & Ushir by objective parameters measures to understand the relation between Parthivatwa. | AFT- RES | МК | KH | PT,D_ L | P-VIVA | F&S | I | |
| CO1,CO6 | Follow the methods of Viscosity, Moisture content & Specific gravity (Liquid) of Kumari, Vidari, Sariva, Shunthi, Ikshu, Usheera, Kamala & Apamarga by objective parameters measures to understand the relation between Jaliyatwa. | AFT- REC | МК | КН | PT,D_ L | P-VIVA | F&S | I | |
| CO1,CO6 | Descibe the methods of pH and Moisture content of Shunthi, Shatavari, Maricha, Dhataki, Chitraka, Gokshura, Hingu & Chandan by objective parameters measures to understand the relation between Agneeyatwa. | AFT- REC | МК | KH | PT,D_ L | P-VIVA | F&S | I | |
| CO1,CO6 | Answer to the methods of Fat content, Specific gravity (liquid) & Bulk density of Usheera, Ashwagandha, Nimba, Vidari, Tila, Jambu & Kapikachhu by objective parameters measures to understand the relation between Vayaviyatwa. | AFT- RES | МК | KH | PT,D_ L | P-VIVA | F&S | I | |
| CO1,CO6 | Follow the methods of Bulk density of Ushira, Kumari, Apamarga, Jeeraka & Jatamansi by objective parameters measures to understand the relation between Akashiyatwa | AFT- REC | МК | КН | PT,D_ L | P-VIVA | F&S | Ι | |
| CO1,CO6 | Perform the objective parametric measures to understand the relation between Parthivatwa by Specific gravity (solid) of Asthishrnkhala, Sariva, Vidari, Maricha, Shatavari, Jambu, Godhuma & Ushira. | PSY- ADT | МК | SH | PRA | P-EXAM,P- PRF | F&S | I | |

| CO1,CO6 | Perform the objective parametric measures to understand the relation between Jaliyatwa Specific gravity (Liquid) of Kumari, Vidari, Sariva, Shunthi, Ikshu, Usheera, Kamala & Apamarga. | PSY- ADT | МК | SH | PT | P-EXAM,P- PRF | F&S | Ι | |
|----------------------------|---|-------------|----|----|-------------|------------------|-----|---|--|
| CO1,CO6 | Perform the objective parametric measures to understand the relation between Aagneyatwa by pH of Shunthi, Shatavari, Maricha, Dhataki, Chitraka, Gokshura, Hingu & Chandana. | PSY- ADT | МК | SH | PT | P-EXAM,P- PRF | F&S | Ι | |
| CO1,CO6 | Perform the objective parametric measures to understand the relation between Vayaviyatwa by Specific gravity (Liquid) of Usheera, Ashwagandha, Nimba, Vidari, Khadira, Tila, Jambu & Kapikacchu. | PSY- ADT | МК | SH | PT | P-EXAM,P- PRF | F&S | I | |
| Topic 2 2. <i>A</i> | Assessment of objective parametric measures of Guna | · | · | · | · | • | | | |
| CO1,CO6 | Observe the assessment of objective parametric measures of Shatavari and Bala for its guru guna by Density (bulk). | PSY- GUD | МК | КН | PT,D_ L | P-VIVA | F&S | Ι | |
| CO1,CO6 | Observe the Specific gravity (Liquid and solid) of Shatavari and Bala for its guru guna. | PSY- GUD | МК | КН | PT,D_ L | P-VIVA | F&S | Ι | |
| CO1,CO6 | Observe the assessment of objective parametric measures of Yava and Dhanyaka for its Laghu guna by Density (bulk) | PSY- GUD | МК | КН | PT,D_ L | P-VIVA | F&S | Ι | |
| CO1,CO6 | Demonstrate the Specific gravity (Liquid and solid) Yava and Dhanyaka for its Laghu guna. | PSY- GUD | МК | КН | PT,D_ L | P-VIVA | F&S | Ι | |
| CO1,CO6 | Observe the assessment of objective parametric measures of Snigdha guna drugs by total fat content, moisture content of Tila and Eranda | PSY- GUD | МК | КН | PT,D_ L | P-VIVA | F&S | I | |
| CO1,CO6 | Demonstrate Swelling index of Snigdha guna drugs of Tila, and Eranda. | PSY- GUD | МК | КН | D_L,P RA | P-VIVA | F&S | Ι | |
| CO1,CO6 | Observe the assessment of objective parametric measures of | PSY- | МК | КН | PT,D_ | P-VIVA | F&S | Ι | |

| | Ruksha guna drugs by total fat content and moisture content of Kulattha & Vidanga | GUD | | | L | | | | |
|----------------------------|---|-------------|----|----|---------------------|----------------------|-----|---|---|
| CO1,CO6 | Demonstrate Swelling index of Ruksha guna drugs of Kulattha & Vidanga | PSY- GUD | МК | КН | PT,D_ L | P-VIVA | F&S | Ι | |
| Topic 3 3. <i>A</i> | Assessment of Rasa | • | | • | • | | | | • |
| CO2,CO6 | Perform the assessment of Rasa based on classical symptoms for each rasa dravyas. | PSY- ADT | МК | SH | PT,D_ L | P-EXAM,P- PRF,INT | F&S | Ι | |
| Topic 4 4.C | Comparative organoleptic and macroscopic examination | | | | • | • | • | • | |
| CO6 | Perform the comparative organoleptic characters (Taste, Colour, Smell, Sound, Touch) and macroscopic examination (Size, Shape, Fracture, External markings like lenticels, ridges, nodes, furrows, cracks etc) of root of Ashwagandha, Chitraka, Manjistha, Musta, Shatavari, Vatsanabha and Yashtimadhu. | PSY- ADT | МК | SH | L_VC ,PT,D _L | P-EXAM,P- PRF | F&S | I | |
| CO6 | Perform the comparative organoleptic characters (Taste, Colour, Smell, Sound, Touch) and macroscopic examination (Size, Shape, Fracture, External markings like lenticels, ridges, nodes, furrows, cracks etc) of Rhizome/Stolon of Haridra, Katuki, Shunthi and Vacha. | PSY- ADT | МК | SH | PT,D_ L | P-EXAM,P- PRF | F&S | I | |
| CO6 | Perform the comparative organoleptic characters (Taste, Colour, Smell, Sound, Touch) and macroscopic examination (Size, Shape, Fracture, External markings like lenticels, ridges, nodes, furrows, cracks etc) of Stem of Asthishrinkhala and Guduchi. | PSY- ADT | МК | SH | PT,D_ L | P-EXAM,P- PRF | F&S | I | |
| CO6 | Perform the comparative organoleptic characters (Taste, Colour, Smell, Sound, Touch) and macroscopic examination (Size, Shape, Fracture, External markings like lenticels, ridges, nodes, furrows, cracks etc) of Bark of Arjuna, Ashoka, Kutaja, Nimba and Twak. | PSY- ADT | МК | SH | BS,PT ,D_L | P-EXAM,P- PRF | F&S | Ι | |

| CO6 | Perform the comparative organoleptic characters (Taste, Colour, Smell, Sound, Touch) and macroscopic examination (Size, Shape, Fracture, External markings like lenticels, ridges, nodes, furrows, cracks etc) of Heart wood of Beejaka, Chandana and Khadira | PSY- ADT | МК | SH | BS,PT ,D_L | P-EXAM,P- PRF | F&S | I | |
|-----|---|-------------|----|----|---------------|------------------|-----|---|--|
| CO6 | Perform the comparative organoleptic characters (Taste, Colour, Smell, Sound, Touch) and macroscopic examination (Size, Shape, Fracture, External markings like lenticels, ridges, nodes, furrows, cracks etc) of Leaf of Kumari, Meshashringi and Vasa. | PSY- ADT | МК | SH | BS,PT ,D_L | P-EXAM,P- PRF | F&S | I | |
| CO6 | Perform the comparative organoleptic characters (Taste, Colour, Smell, Sound, Touch) and macroscopic examination (Size, Shape, Fracture, External markings like lenticels, ridges, nodes, furrows, cracks etc) of Flower of Dhataki, Kunkum (kesara) and Lavanga. | PSY- ADT | МК | SH | PT,D_ L | P-EXAM,P- PRF | F&S | I | |
| CO6 | Perform the comparative organoleptic characters (Taste, Colour, Smell, Sound, Touch) and macroscopic examination (Size, Shape, Fracture, External markings like lenticels, ridges, nodes, furrows, cracks etc) of Fruit of Amalaki, Aragavadha, Bhallataka, Bibhitaki, Gokshura, Haritaki, Madanphala, Maricha, Pippali and Vidanga. | PSY- ADT | МК | SH | D_L,P RA | P-EXAM,P- PRF | F&S | I | |
| CO6 | Perform the comparative organoleptic characters (Taste, Colour, Smell, Sound, Touch) and macroscopic examination (Size, Shape, Fracture, External markings like lenticels, ridges, nodes, furrows, cracks etc) of Phalaraja of Kampillaka. | PSY- ADT | МК | SH | PT,D_ L | P-EXAM,P- PRF | F&S | Ι | |
| CO6 | Perform the comparative organoleptic characters (Taste, Colour, Smell, Sound, Touch) and macroscopic examination (Size, Shape, Fracture, External markings like lenticels, ridges, nodes, furrows, cracks etc) of Seed of Bakuchi,Ela, Eranda, Jyotishmati | PSY- ADT | МК | SH | PT,D_ L | P-EXAM,P- PRF | F&S | I | |

| | and Kapikacchu. | | | | | | | | |
|------------|---|-------------|---------|----|-------------------------------|------------------------|-----|---|--|
| CO6 | Perform the comparative organoleptic characters (Taste, Colour, Smell, Sound, Touch) and macroscopic examination (Size, Shape, Fracture, External markings like lenticels, ridges, nodes, furrows, cracks etc) of Unorganized drugs of Guggulu, Hingu and Mocharasa. | PSY- ADT | МК | SH | PT,D_ L | P-EXAM,P- PRF | F&S | I | |
| CO6 | Perform the comparative organoleptic characters (Taste, Colour, Smell, Sound, Touch) and macroscopic examination (Size, Shape, Fracture, External markings like lenticels, ridges, nodes, furrows, cracks etc) of Whole plant of Apamarga, Bhrungaraja, Bhumyamalaki, Brahmi, Kalmeghaand and Mandukaparni. | PSY- ADT | МК | SH | PT,D_ L | P-EXAM,P- PRF | F&S | I | |
| CO6 | Perform the comparative organoleptic characters (Taste, Colour, Smell, Sound, Touch) and macroscopic examination (Size, Shape, Fracture, External markings like lenticels, ridges, nodes, furrows, cracks etc) of Galls of Karkatshrungi. | PSY- ADT | МК | SH | PT,D_ L | P-EXAM,P- PRF | F&S | I | |
| Topic 5 5. | Microscopic Identification of genuine and adulterated drug | | | | | | | | |
| CO6 | Perform the comparative microscopic examination of genuine and adulterated any two samples of Root / stem / leaf /bark / fruits (E.g. like Sariva / Manjishta / Vidanga / Maricha / Ashoka). | PSY- ADT | МК | SH | TUT, PT,D_ L | P-EXAM,P- PRF | F&S | I | |
| Topic 6 6. | Demonstration of skills to identify the medicinal plants in the | college | garden. | | • | | • | | |
| CO8 | Demonstrate identification features of college garden medicinal plants for their morphology, taxonomical keys, regional flora with therapeutic uses. | PSY- GUD | МК | КН | L_VC ,ML,S DL,D G,FV | P-VIVA,P- EXAM,P-ID | F&S | I | |
| CO8 | Participate actively in Identification of Medicinal plants. | AFT- RES | МК | SH | DG | P-VIVA,P- EXAM | F&S | Ι | |

| Topic 7 7 demonstr | 7. Out campus visit (Cultivated gardens, Tissue culture lab, Her ation) | baria, I | Pharmacogn | osy lab, Q | uality co | ontrol lab and | Forest | plant | |
|-----------------------|---|-------------|------------|------------|-----------------------------|-------------------|--------|-------|------|
| CO8 | Visit to observe the identification features of medicinal plants which are from cultivated or natural habitat / forest plant. | PSY- GUD | MK | КН | ML,S DL,D G | P-VIVA,P- EXAM | F&S | Ι | |
| CO8 | Visit to observe the Tissue culture techniques of medicinal plants in local / nearby Tissue culture lab. | PSY- GUD | МК | КН | PT,D_ L | P-VIVA | F&S | Ι | |
| CO8 | Visit to observe the herbaria of medicinal plants in nearby institute. | PSY- GUD | МК | КН | PT,D | P-VIVA | F&S | Ι | |
| CO6 | Visit to observe the nearby AYUSH approved Quality control lab for quality control techniques. | PSY- GUD | MK | КН | L_VC ,PT,D _L | P-VIVA | F&S | Ι | |
| Topic 8 8 | 8. Dravya prayoga | | | · | • | | • | • | • |
| CO5 | Observe the selection of Ekala Dravya (single drug) in various clinical conditions | PSY- GUD | МК | КН | DIS,C BL,S DL,T UT | P-VIVA,QZ | F&S | I | |
| CO5 | Perform the selection of Ekala dravya prayoga in various clinical conditions by masked case sheets. | PSY- ADT | МК | SH | CBL, ECE | P-VIVA,P- EXAM | F&S | Ι | H-RN |
| Topic 9 9 | 9. Physico-chemical study | | | | - | | | | |
| CO6 | Perform the foreign matter study of minimum 2 useful parts of medicinal plants. | PSY- ADT | МК | SH | PT,D_ L | P-VIVA | F&S | II | |
| CO6 | Observe the Loss on drying (LoD) study of minimum 2 useful parts of medicinal plants. | PSY- GUD | МК | КН | TUT, PT,D_ L | P-VIVA | F&S | Π | |

| CO6 | Observe the Ash value and Extractive value of minimum 2 useful parts of medicinal plants. | PSY- GUD | МК | KH | PT,D_ L | P-VIVA | F&S | II | |
|----------|--|-------------|-----------|----|-------------------------------|-------------------------|-----|----|------|
| Topic 10 | 10. Phytochemical | | | • | | | • | • | |
| CO6 | Perform Preliminary phytochemical study of minimum 2 medicinal plant extracts. | PSY- ADT | МК | SH | PT,D_ L | P-VIVA,P- EXAM,P-PRF | F&S | Π | |
| Topic 11 | 11. Thin Layer Chromatography (TLC) technique | | | • | | | • | • | |
| CO6 | Observe the TLC (Thin layer chromatography) technique of one medicinal plant extract. | PSY- GUD | МК | KH | TUT, PT,D_ L | P-VIVA,INT | F&S | II | |
| Topic 12 | 12. Demonstration of skills to identify the medicinal plants in th | he colle | ge garden | · | | | | | |
| CO8 | Demonstrate identification features of college garden medicinal plants for their morphology, taxonomical keys, regional flora with therapeutic uses. | PSY- GUD | МК | KH | L_VC ,DG | P-VIVA,P- EXAM,P-PRF | F&S | II | |
| CO8 | Participate actively in Identification of Medicinal plants. | AFT- RES | МК | SH | DG | P-VIVA | F&S | Π | |
| Topic 13 | 13. Out campus visit (cultivated gardens & In-situ plant demon | stratio | n) | | -1 | • | | | |
| CO8 | Visit to observe the identification features of medicinal plants which are from cultivated or natural habitat / forest plant. | PSY- GUD | МК | KH | DG | P-VIVA | F&S | II | |
| Topic 14 | 14. Ekala dravya prayoga | | | • | | | | • | • |
| CO5 | Perform the selection of Ekala dravya prayoga in various clinical conditions by masked case sheets. | PSY- ADT | МК | SH | DIS,C BL,E CE,D _BED | P-VIVA,P- EXAM | F&S | II | H-RN |
| CO5 | Appraise the value of selection of Ekala Dravya Prayog in | AFT- | МК | SH | PBL, | P-VIVA,P- | F&S | II | H-RN |

| | various clinical conditions by providing masked case sheets. | VAL | | | CBL, CD | EXAM | | | |
|----------|---|-------------|-------------|-----|----------------------|------------|-----|-----|----------|
| Topic 15 | 15. Different Cultivation technique including methods mentior | ed in V | rikshayurvo | eda | • | • | • | • | |
| CO8 | Demonstrate different cultivation technique of medicinal plants in garden. | PSY- GUD | МК | KH | L_VC ,DG | P-VIVA,INT | F&S | II | |
| CO8 | Demonstrate different cultivation methods mentioned in Vrikshayurveda in garden. | PSY- GUD | МК | KH | DG | P-VIVA | F&S | II | |
| Topic 16 | 16. Exercise on Network pharmacology | | | · | · | · | · | • | |
| CO2 | Conduct the Identification (Data mining) active constituents by Pubmed, IMPPATor PubChem in digital library. | PSY- SET | МК | KH | DIS,D | P-VIVA,PA | F&S | III | |
| CO2 | Conduct Target identification by Binding DB. | PSY- SET | МК | KH | D | P-VIVA | F&S | III | |
| CO2 | Conduct Identification of disease gene by DisGeNET. | PSY- SET | МК | KH | TUT, D | P-VIVA | F&S | III | |
| CO2 | Conduct GO (Gene ontology) enhancement analysis by KEGG Pathway, R ratio. | PSY- SET | МК | KH | D | P-VIVA | F&S | III | |
| CO2 | Conduct Network construction by STRING, PPI network, sytoscope. | PSY- SET | МК | KH | D | P-VIVA | F&S | III | |
| Topic 17 | 17. Preparations of digital herbarium | | | • | | | • | • | |
| CO8 | Prepare digital herbarium of minimum 10 medicinal plants during field visit with all parts of the plant with geo-tag photos. | PSY- ADT | МК | SH | L_VC ,W,T UT,D | P-SUR,RK | F&S | III | |
| Topic 18 | 18. Demonstration of skills to identify the medicinal plants in t | he colle | ge garden | I | - I | 1 | | - | <u> </u> |
| CO8 | Demonstrate identification features of college garden medicinal | PSY- | MK | KH | L_VC | P-VIVA,P- | F&S | III | |

| | plants for their morphology, taxonomical keys, regional flora with therapeutic uses. | GUD | | | ,DG | EXAM | | | |
|----------|---|-------------|----|----|-----------------------------------|----------------------|-----|-----|------|
| CO8 | Participate actively in Identification of Medicinal plants. | AFT- RES | МК | SH | DG | P-VIVA,P- EXAM | F&S | III | |
| Topic 19 | 19. Out campus visit (cultivated gardens & In-situ plant demon | stratio | n) | • | • | · | • | | |
| CO8 | Visit to observe the identification features of medicinal plants which are from cultivated or natural habitat / forest plant. | PSY- GUD | МК | КН | DG | P-VIVA | F&S | III | |
| Topic 20 | 20. Ekala dravya prayoga | • | | • | • | | • | • | |
| CO5 | Perform the selection of Ekala dravya prayoga in various clinical conditions by masked case sheets. | PSY- ADT | МК | SH | CBL, ECE, D_BE D,PR A | P-VIVA,P- EXAM,RK | F&S | III | H-RN |
| CO5 | Appraise the value of selection of Ekala Dravya Prayoga in various clinical conditions by providing masked case sheets. | AFT- VAL | МК | SH | PBL, CBL, CD | P-VIVA,P- EXAM | F&S | III | H-RN |

Table 4a: List of Practical

| S.No | Name of practical | Term | Activity | Practical hrs | | |
|------|---|------|--|---------------|--|--|
| 1 | 1. Assessment and Understanding the relation between Parthivatwa & subjective/ objective parametric tests | | 1.1 Assessment and Understanding the relation between Parthivatwa & subjective/ objective parametric tests Density (bulk) Specific gravity (solid) Drugs to study for e.g Asthishrnkhala, Sariva, Vidari, Maricha, Shatavari, Jambu, Godhuma & Ushira 1.2 Assessment and Understanding the relation between Jaliyatwa & subjective/ objective parametric tests Viscosity Specific gravity Moisture content Drugs to study for e.g Kumari, Vidari, Sariva, Shunthi, Ikshu, Usheera, Kamala & Apamarga 1.3 Assessment and Understanding the relation between Aagneyatwa & subjective/ objective parametric tests pH Moisture content Drugs to study for e.g.: Shunthi, Shatavari, Maricha, Dhataki, Chitraka, Gokhura, Hingu & Chandana 1.4 Assessment and Understanding the relation between Vayaviytwa & subjective/ objective parametric tests Fat content Specific gravity Density (bulk) Drugs to study for e.g.: Usheera, Ashwagandha, Nimba, Vidari, Khadira, Tila, Jambu & Kapikacchu 1.5 Assessment and | | | |

| | | | Understanding the relation between Aakashiyatwa & subjective/ objective parametric tests Density (Bulk) Drugs to study for e.g.: Usheera, Kumari, Apamarga, Jeeraka & Jatamansi | |
|---|--|---|---|----|
| 2 | 2. Assessment of objective parametric measures of Guna | 1 | 2.1 Assessment of objective parametric measures Guru & Laghu Guna Density (bulk) Specific gravity (Liquid and solid) Drugs to study for e.g. : Guru: Shatavari, Bala ; Laghu: Yava, Dhanyaka 2.2 Assessment of objective parametric measures of Snigdha and Ruksha guna drugs Total fat content Moisture content Swelling index Drugs to study for e.g. : Snigdha: Tila, Eranda ; Ruksha: Kullatha, Vidanga | 12 |
| 3 | 3. Assessment of Rasa | 1 | Assessment of Rasa based on classical symptoms for each rasa dravyas. One Example For each rasa | 6 |
| 4 | 4.Comparative organoleptic and macroscopic examination | 1 | Comparative organoleptic (Taste, Color, Smell, Sound, Touch) and macroscopic examination (Size, Shape, Fracture, External markings like lenticels, ridges, nodes, furrows, cracks, etc)of the following group of drugs. a. Root: Aswagandha, Chitraka, | 23 |

| | | | Manjistha, Musta, Shatavari, Vatsanabha, Yashtimadhu. b. Rhizome/Stolon: Haridra, Katuki, Shunthi, Vacha. c. Stem: Asthishrinkhala, Guduchi. d. Bark: Arjuna, Ashoka, Kutaja, Nimba, Twak. e. Heart wood: Beejaka, Chandana, Khadira. f. Leaf: Kumari, Meshashringi, Vasa. g. Flower: Dhataki, Kunkum (kesara), Lavanga. h. Fruit: Amalaki, Aragavadha, Bhallataka, Bibhitaki, Gokshura, Haritaki, Madanphala, Maricha, Pippali, Vidanga. i. Phalaraja: Kampillaka j. Seed: Bakuchi, Ela, Eranda, Jyotishmati, Kapikacchu k. Unorganized drugs: Guggulu, Hingu, Mocharasa I. Whole plant: Apamarga, Bhrungaraja, Bhumyamalaki, Brahmi, Mandukaparni. m. Galls: Karkatshrungi | |
|---|---|---|--|----|
| 5 | 5. Microscopic Identification of genuine and adulterated drug | 1 | Microscopic identification of genuine and adulterated drug, minimum 2 samples from Root/stem/leaf /bark/fruits. (E.g. Sariva/Manjishta/Vidanga/M aricha/Ashoka) | 4 |
| 6 | 6. Demonstration of skills to identify the medicinal plants in the college garden. | 1 | | 10 |
| 7 | 7. Out campus visit (Cultivated gardens, Tissue culture lab, Herbaria, Pharmacognosy | 1 | • General instructions regarding combined educational visit | 10 |

lab, Quality control lab and Forest plant demonstration)

- Combined educational visit can be planned wherever feasible as, for Dravyaguna- Cultivated gardens, Tissue culture lab, Herbaria, Pharmacognosy lab, Forest plant demonstration ; for Agadatantraforensic lab, snake park, pollution control board and snake venum unit; for Swasthvrutta - Yoga and naturopathy center, Milk dairy plant, Water Purification plant, Sewage treatment plant, Leprosy rehabilitation Centre & for Rasashastra- GMP certified Lab, Drug Analysis Lab
- SOP for Out campus Field Visits
- Theme-Based Visits: Plan visits based on specific educational themes (Deshemani Ganas, Family wise), selecting locations relevant to the theme and collaborating with local experts.
- **Dress Code**: Participants must wear jean paints and T shirts, closed-toe shoes, a hat or cap for sun protection, and weatherappropriate gear such as jackets or raincoats.
- Essential Materials: Each participant should carry a water bottle, a stick (optional), materials for sample storage (newspaper, blotting paper, secateurs, plastic bags), a cap, goggles, and a packed lunch or snacks in a suitable container.
- Safety Precautions: Conduct a safety briefing before the visit, outlining emergency procedures, collecting medical information, and emphasizing expected behaviors' during the trip.
- **Itinerary**: Develop a detailed itinerary with activities and a timeline, considering the chosen theme and objectives of the visit.
- Public Address System (PA **System**): If necessary, provide a portable PA system with a

| | | | microphone, amplifier, and power source for effective communication with larger groups. Test the PA System: Prior to the visit, ensure the PA system is in working order and audible, conducting necessary tests to guarantee functionality. Responsible Usage: Use the PA system judiciously, speaking clearly and at an appropriate volume, while encouraging participants to utilize the system for questions or clarifications. Follow-up Activities: Organize post-visit discussions and assignments to reinforce learning, encourage knowledge sharing, and facilitate deeper exploration of the theme. Review and Revise: Regularly update and adapt this SOP to comply with safety standards, educational objectives, and local regulations. | |
|---|---------------------------|---|--|----|
| 8 | 8. Dravya prayoga | 1 | 8.1 (Part I) Demonstration of selecting appropriate Ekala dravya as per clinical conditions. 8.2 (Part II) Selection of Ekala dravya prayoga in various clinical conditions by providing masked case sheets per srotasa (5 cases in each term) | 12 |
| 9 | 9. Physico-chemical study | 2 | Physicochemical study of medicinal plant. (minimum 2 drugs) a. Foreign matter b. Loss on drying c. Ash value d. Extracts | 8 |

| | | | • Note: The same plant should be used for all the tests | |
|----|---|---|--|----|
| 10 | 10. Phytochemical | 2 | • Preliminary phytochemical study of medicinal plant. (minimum 2 drugs) | 4 |
| 11 | 11. Thin Layer Chromatography (TLC) technique | 2 | • TLC technique of medicinal plant (any one) | 2 |
| 12 | 12. Demonstration of skills to identify the medicinal plants in the college garden | 2 | | 10 |
| 13 | 13. Out campus visit (cultivated gardens & In- situ plant demonstration) | 2 | | 10 |
| 14 | 14. Ekala dravya prayoga | 2 | Selection of Ekala dravya prayoga in various clinical conditions by providing masked case sheets. (5 cases in each term) | 10 |
| 15 | 15. Different Cultivation technique including methods mentioned in Vrikshayurveda | 2 | | 6 |
| 16 | 16. Exercise on Network pharmacology | 3 | Exercise on Network Pharmacology 1st activity: Identification (Data mining) active constituents by Pubmed, IMPPATor PubChem. 2nd activity: Target identification by BindingDB. | 6 |

| | | | Total Hr | 175 |
|----|---|---|---|-----|
| 20 | 20. Ekala dravya prayoga | 3 | Selection of Ekala dravya prayoga in various clinical conditions by providing masked case sheets.(5 cases in each term) | 10 |
| 19 | 19. Out campus visit (cultivated gardens & In- situ plant demonstration) | 3 | | 10 |
| 18 | 18. Demonstration of skills to identify the medicinal plants in the college garden | 3 | | 10 |
| 17 | 17. Preparations of digital herbarium | 3 | • Preparations of digital herbarium of minimum 10 drugs with all parts of the plant (with geo-tag photos) by compulsory field visit | 2 |
| | | | 3rd activity: Identification of disease gene by DisGeNET. 4th activity: GO enhancement analysis by KEGG Pathway, R ratio. 5th step: Network construction by STRING, PPI network, sytoscope. | |

Activity

| СО | Topic name | Activity Details | Hours# |
|---------|---------------------|--|--------|
| C01,C03 | Dravyaguna Vigyana. | • Group activity – Assignments are to be given to the students to prepare 2-3 flash cards on importance of Dravyaguna Vigyana in clinical practice. | 1 |

| CO1,CO5,CO8 | Dravya | | 4 |
|-------------|--|---|---|
| | | Segregation of dry drugs based on Panchabhoutika characteristics. Various Dravyas are given to the students for segregation of dravyas according to Panchabhoutik constitution Classify live plants based on Panchabhoutika characteristics in garden. (Details mentioned in Rasavaisheshik Sutra 2 chapter 101-111) Quiz – based on classifications of dravyas Brain storming - Activity should be assigned to the students to search in samhitas related to classification of dravyas as Prayogabheda, Doshaghnabheda and Karmbheda. Prepare the list of specific assigned classification for group of students. | |
| CO1,CO2,CO3 | Guna Panchabhoutikatva, characteristics and classification. | Matching of Gurvadi guna with its karma Animated Power point Presentation on Guna. Brain storming - To search in Chikitsasthana of samhitas regarding clinical application of Gurvadi guna and Paradi guna | 2 |
| CO1,CO2,CO3 | Rasa | Game based activity by closing the eyes they should ask to identify the taste Activity based learning enlisting the dravyas of specific taste Matching activity -Matching of specific Rasas with their Guna & Karma Making of Flash cards- Cards with information regarding different concepts of Rasas | 4 |

| CO1,CO2,CO3 | Vipak | Flash cards - Preparing flash cards containing pictures of dravya to identify dravya and its vipaka Preparing charts of 20 dravyas with ayathartha vipaka and yatharth vipaka | 1 |
|-------------------------|---|--|---|
| CO1,CO2,CO3 | Virya | Talk and chalk activity by students on Dwividha virya and ashtavidha virya. Making charts of dravyas from Bhavaprakash nighantu regarding Dwividha virya- 25 Sheeta Virya dravyas & 25 Ushna Virya Dravyas. | 2 |
| CO1,CO2,CO3 | Prabhav | • Puzzle – Segregating the dravyas based on Samanpratyayarabdha, Vichtrapratyayarabdha and Prabhava. | 1 |
| CO1 | Interrelation of Rasa-Gun a-Virya-Vipaka-Prabhava with respect to their strength - Pharmacodynamics | Making flow charts regarding the rules explained in relation with concepts of dravyaguna Group Discussion - Interrelation of Rasa-Guna-Virya-Vipaka-Prabhava with respect to their strength - Pharmacodynamics | 2 |
| CO1,CO2,CO3,CO4 ,CO5 | karma | Case base learning-Taking different clinical conditions & selecting appropriate karma Think, Pair and share based activity-Sepecific problem has to be given, | 5 |

| | | student should be allowed to think and discuss about appropriate karmas Gamification-Pairing Karma with the drugs. Role play for identification of specific karma- Asking one student to enact & others to find out Karma Presentation- On concept of Karma, types of karma & Individual Karma. Enlisting specific karma-In relation to dravyas from Bruhatrayee & Sharangdhara samhita | |
|---------|---------------------------------------|---|---|
| CO1,CO8 | Karmas of Dashemani | Cramming –Memorizing the dravyas from specific ganas Fish bowl activity written chits of drugs picked by students and should say the name of the Gana Shloka recitation- Shlokas of Dashemani Gana (Ch. Su. 4) Symposia- Short discussion on various clinical applications of Dashemani Gana | 3 |
| CO4,CO9 | Principles of General Pharmacology | Video: Showing relevant videos regarding principles of pharmacology and mode of action Mobile based learning –Searching about pharmacology in enlisted websites | 1 |
| CO1,CO3 | Mishrak Gana | GBL-Identification of mishrak gana by using clues of utility of specific mishrak gana from samhita and chikitsa grantha Matching of dravyas with specific mishraka Gana Role play –enacting individual and combined actions of composition for e.g. Triphala - Individualy they should enact | 2 |

| | | as Haritaki, Bibhitaki and Aamalaki explaing their karmas, then they should come together depicting Triphala. Self-directed learning- Mobile based learning on Mishraka Gana | |
|---------|---|---|---|
| CO1 | Nomenclature of dravya as per Nighantu, Vedic taxonomy and botany | Bulletin boards : Highlighting significant points of nomenclature Demo in garden : Demonstration of the dravyas on the basis of various criteria's of nomenclature Symposium by making groups of specific criteria for nomenclature and asked to present synonyms based on that particular criteria allotted to the group e.g. Upama , Rudhi, Prabhav, Deshokti, Swabhavatha, Lanchana & Guna | 2 |
| CO1,CO5 | Prashasta Bheshaja, BheshajaPariksha and drug evaluation method with correlation as per Pharmacognosy | Read aloud :Student come on the Dias and read with loud voice Self -directed learning - Charak Samhita Vimansthana Chapter 8 | 2 |
| CO1,CO7 | Abhavapratinidhidravya (substitutes) | • Self-directed learning : Self study on Abhavapratinidhidravya (substitutes) from Bhavaprakasha | 1 |
| CO2,CO6 | Classifications and techniques of aqueous and alcoholic extracts | • Demo in lab • Video | 2 |
| CO2 | Adverse drug reaction and Pharmacovigilance with recent updates | • PBL : Story telling about reported cases | 2 |

| | | Survey : visit to pharmacovigilance cell at institution Guest lecture : Activities of pharmacovigilance cell | |
|-----------------------------|---|---|----|
| CO8 | Vrikshayurveda and ethnomedicine | • Videos- Showing videos on cultivation practices and Ethnomedicine | 1 |
| CO2 | Network Pharmacology & Bioinformatics | VideoPresentation | 1 |
| CO5 | Bheshajavacharaniya | Making charts on Various Rasa dravya indicated in specific vyadhis for eg. Tikta rasa in Jvara & Kushtha, Katu rasa in Amavata, Kashaya rasa in Pakwatisara, and Raktastambhana, Madhur rasa in Dhatu kshya janya vyadhi , Amla & Lavana rasa in Udavarta, Udara, Gulma,also used as Agnideepana, Mudhavatanulomana, Pachana | 6 |
| CO2,CO3,CO4,CO5 ,CO7,CO8 | 2.Dravya (Drug) Nama- Guna-Karma Jnana | Game base activity- Activity based learning as the chits are prepared of different karmas, those are circulated among the students, once the circulation stops then the student with the chit will be asked to read the karma mentioned in the chit and to explain with examples. CBL (Case based learning) and PBL (Problem based learning) activities taken for understanding of Karma in specific clinical scenario | 08 |

| | | Segregation of dravyas mentioned in syllabus according to Dashemani Gana Searching of Mishrak gana from samhita and chikitsa granths for its utility Collecting information about Grahya and Agahya dravyas mentioned in the syllabus with their characterestics | |
|-----------------------------|---|---|----|
| CO2,CO3,CO4,CO5 ,CO7,CO8 | 3.Dravya (Drug) Nama- Guna-Karma Jnana | Matching Rasapanchak, Rogaghnata, Agryakarma of dravya Making of charts regarding Aamayika Prayogas, Agrya Karma & Specific Kalpana Case based activity- one particular disease & suitable plants in order Critical reading with the help of different indexed research articles Quiz | 17 |
| CO2,CO3,CO4,CO5 ,CO7,CO8 | 3.Dravya (Drug) Nama- Guna-Karma Jnana | Moc practical - 1) 15 dry & 15 wet sample dravya spotting test Test should include at least one each from Leaf, Stem, Root, Rhizome,Gall, Flower, Fruit, Seed, Bark & Resin. Each spot should be solved in 1 minute so 30 minutes activity should be conducted. 2) Skill based assessment -There shall be three components in skill assessment A. Identify and separate Grahya & Agrahya of given sample B. Identifying and grouping of drugs of given Mishraka Gana C. Understand the clinical scenario and identify five suitable single drug Instructions: Spotting stations are to be numbered as per the batch. Each spotting station contain: A. Mixture of Grahya & Agrahya B. Name of Misraka Gana and | 05 |

| | C. Clinical Scenario. Students are allotted with the spotting station by lottery method. Arrangement of Spotting Stations: A. Identify and separate Grahya & Agrahya of Given Sample: Sufficient quantity (approximately 20 gm of Vidanga & Maricha) of mixture of Grahya and Agrahya dravya to be provided. There shall be two empty bowels each one labelled as 'Grahya' and 'Agrahya'. Students are asked to separate the given sample into Grahya and Agrahya. There shall be different drugs for each station. B. Identifying and grouping of drugs of given Misraka Gana: Each station shall contain one label containing name of the Misraka Gana, with question 'Recollect the drugs belonging to the given Misraka Gana, identify those drugs, collect and make a group. There shall be empty bowl of sufficient size as per the given Gana for collection of drugs. C. Understand the clinical scenario and identify five suitable 5 single drugs: Provide the clinical scenario in not less than 100 words and not more than 200 words with or without investigation reports shall be provided at each spotting station (preferably separate cases for each station). Students are asked to go through the scenario and understand the clinical conditions , select 1 single drug, identify, collect and place it in the bowl given for the same. Select five suitable drugs and write as per preference base. |
|--|--|
|--|--|

Hours indicated are included in calculations of Table 3 and 4

| Sr No | Teaching learning methods in the course | No of Activities |
|-------|---|------------------|
| 1 | Lecture | 13 |
| | | |

| 2 | Lecture with Power point presentation | 100 |
|----|---------------------------------------|-----|
| 3 | Lecture & Group Discussion | 35 |
| 4 | Lecture with Video clips | 19 |
| 5 | Discussions | 42 |
| 6 | Brainstorming | 7 |
| 7 | PBL | 14 |
| 8 | CBL | 7 |
| 9 | Project-Based Learning | 3 |
| 10 | TBL | 3 |
| 11 | Team project work | 5 |
| 12 | Flipped classroom | 22 |
| 13 | Blended Learning | 13 |
| 14 | Edutainment | 4 |
| 15 | Mobile learning | 7 |
| 16 | Role plays | 3 |
| 17 | Self-directed learning | 14 |
| 18 | Game-Based Learning | 6 |
| 19 | Library Session | 18 |
| 20 | Peer learning | 16 |
| 21 | Recitation | 1 |
| 22 | Tutorial | 2 |
| 23 | Presentations | 20 |
| 24 | Demonstration | 1 |

These are overall teaching learning methods listed in Table 3 and 4. Teachers can select the best possible method amongst the given methods as per objective, available time etc.

Table 6: Assessment Summary: Assessment is subdivided in A to H points

6 A-Number of Papers and Marks Distribution

| Subject | | | | | | | | |
|---------|--|--|-----------|------|----------|----|--------------|----------------|
| Code | | | Practical | Viva | Elective | ΙΑ | Sub Total | Grand Total |

| AyUG- | 2 | 200 | 100 | 70 | - | 30 | 200 | 400 |
|-------|---|-----|-----|----|---|----|-----|-----|
| DG | | | | | | | | |

6 B - Scheme of Assessment (formative and Summative)

| PROFESSIONAL | DURATION OF PROFESSIONAL COURSE | | | | | | |
|--------------|---------------------------------|------------------------------|------------------------------|--|--|--|--|
| COURSE | First Term (1-6 Months) | Second Term (7-12 Months) | Third Term (13-18 Months) | | | | |
| Second | 3 PA & First TT | 3 PA & Second TT | 3 PA & UE** | | | | |

PA: Periodical Assessment; TT: Term Test; UE: University Examinations.

** University Examination shall be on entire syllabus

6 C - Calculation Method for Internal assessment Marks

| | | PERIODIC | CAL ASSES | | | CRM SMENT | | |
|----------|---|-----------------|-----------------|--------------------------|--|--|----------------------------|------------------------------|
| | A 1 | В | С | D | E | F | G | Н |
| TERM | 1 (15 Marks) | 2 (15 Marks) | 3 (15 Marks) | Average (A+B+C/ 3) | Converted to 30 Marks (D/15*30) | Term Test (Marks converted to 30) | Sub Total _/60 Marks | Term Ass essment (/30) |
| FIRST | | | | | | | E+F | (E+F)/2 |
| SECOND | | | | | | | E+F | (E+F)/2 |
| THIRD | | | | | | NIL | | Е |
| Final IA | Average of | Three Term | Assessment | Marks as Sh | own in 'H' C | olumn. | | |
| | Maximum Marks in Parentheses *Select an Evaluation Method which is appropriate for the objectives of Topics from the Table 6 D for Periodic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert to 30 marks. | | | | | | | |

6 D - Evaluation Methods for Periodical Assessment

| S. No | Evaluation Methods |
|-------|---|
| 1 | Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3 |

Evaluation Methods in MSE

- 1. Practical / Clinical Performance
- 2. Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
- 3. Open Book Test (Problem Based)
- 4. Summary Writing (Research Papers/ Samhitas)
- 5. Class Presentations; Work Book Maintenance
- 6. Problem Based Assignment
- 7. Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination

(OPSÉ), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)

8. Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).

9. Small Project etc.

II PROFESSIONAL BAMS EXAMINATIONS AyUG-DG PAPER-1

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory

| | | Number of Questions | Marks per question | Total Marks |
|-----|---------------------------------|------------------------|--------------------|-------------|
| Q 1 | MULTIPLE CHOICE QUESTIONS (MCQ) | 20 | 1 | 20 |
| Q 2 | SHORT ANSWER QUESTIONS (SAQ) | 8 | 5 | 40 |
| Q 3 | LONG ANSWER QUESTIONS (LAQ) | 4 | 10 | 40 |
| | | | | 100 |

Similar for Paper II

6 F Distribution of theory examination

| Sr. No | A List of Topics | B Term | C Marks | MCQ (1 Mark) | SAQ (5 Marks) | LAQ (10 Marks) |
|-----------|--|-----------|------------|-----------------|------------------|----------------------|
| 1 | 1.Dravyaguna Vigyana | 1 | 1 | Yes | No | No |
| 2 | 2.Dravya | 1 | 6 | Yes | Yes | No |
| 3 | 3. Guna | 1 | 11 | Yes | No | Yes |
| 4 | 4. Rasa | 1 | 11 | Yes | No | Yes |
| 5 | 5. Vipaka | 1 | 6 | Yes | Yes | No |
| 6 | 6. Virya | 1 | 6 | Yes | Yes | No |
| 7 | 7. Prabhava | 1 | 5 | No | Yes | No |
| 8 | 8. Interrelation of Rasa-Guna-Virya-Vipaka- Prabhava | 1 | 1 | Yes | No | No |
| 9 | 9. Karma | 1 | 11 | Yes | No | Yes |
| 10 | 10. Karmas of Dashemani Gana | 1 | 5 | No | Yes | No |
| 11 | 11. Principles of General Pharmacology | 3 | 20 | Yes | Yes | Yes |
| 12 | 12. Mishraka Gana | 3 | 6 | Yes | Yes | No |
| 13 | 13. Nomenclature of dravya as per Nighantu, Vedic taxonomy and Botany | 3 | 1 | Yes | No | No |
| 14 | 14. Prashasta Bheshaja, Bheshaja Pariksha and drug evaluation method with correlation as per Pharmacognosy | 3 | 1 | Yes | No | No |
| 15 | 15. Dravyasangrahana and Drug collection methods as per GFCP (Good Field collection | 3 | 1 | Yes | No | No |

| | practices) | | | | | |
|-----|---|---|-----|-----|----|----|
| 16 | 16. GCP (Good cultivation practices), seed bank, conservation of medicinal plants, knowledge about RET (Rear, Endangered & Threatened) medicinal plants. | 3 | 1 | Yes | No | No |
| 17 | 17. Abhava Pratinidhi Dravya (substitutes) | 3 | 1 | Yes | No | No |
| 18 | 18. Classifications and techniques of aqueous and alcoholic extracts | 3 | 1 | Yes | No | No |
| 19 | 19. Adverse drug reaction and Pharmacovigilance with recent updates | 3 | 1 | Yes | No | No |
| 20 | 20. NMPB (National Medicinal Plant Board), CCRAS (Central Council of Research in Ayurveda Sciences), API (Ayurvedic Pharmacopeia of India), GCTM (Global Centre for Traditional Medicine), PCIMH (Pharmacopeia Commission of Indian Medicine and Homeopathy) | 3 | 1 | Yes | No | No |
| 21 | 21. Vrikshayurveda and Ethno-medicine | 3 | 1 | Yes | No | No |
| 22 | 22. Network pharmacology and Bioinformatics | 3 | 2 | Yes | No | No |
| Tot | al Marks | | 100 | | 1 | |

| Pape | Paper 2 Applied Dravyaguna | | | | | | | | |
|-----------|--|-----------|------------|-----------------|------------------|----------------------|--|--|--|
| Sr. No | A List of Topics | B Term | C Marks | MCQ (1 Mark) | SAQ (5 Marks) | LAQ (10 Marks) | | | |
| 23 | 1. Bheshajavacharaniya (Criteria's to be considered for selection of drugs in vyadhis) | 2 | 5 | Yes | No | No | | | |
| 24 | 2.1 Dravya (Drug) Nama-Guna-Karma Jnana | 2 | 55 | Yes | Yes | Yes | | | |

| 25 | 2.2 Dravya (Drugs) Nama -Guna-Karma- Jnana | 3 | 40 | Yes | Yes | Yes |
|-------------|---|---|-----|-----|-----|-----|
| Total Marks | | | 100 | | | |

| Paper No:1 | | | | |
|-------------|---|--|--|--|
| Question No | Type of Question | Question Paper Format | | |
| Q1 | Multiple choice Questions 20 Questions 1 mark each All compulsory Must know part - 15 MCQ Desirable to know - 3 MCQ Nice to know part - 2 MCQ | 1. 1.Dravyaguna Vigyana 2. 2.Dravya 3. Guna 4. Rasa 5. 5. Vipaka 6. 6. Virya 7. 8. Interrelation of Rasa-Guna-Virya-Vipaka- Prabhava 8. 12. Mishraka Gana / 9. Karma 9. 11. Principles of General Pharmacology 10. 12. Mishraka Gana 11. 3. Nomenclature of dravya as per Nighantu, Vedic taxonomy and Botany 12. 14. Prashasta Bheshaja, Bheshaja Pariksha and drug evaluation method with correlation as per Pharmacognosy 13. 15. Dravyasangrahana and Drug collection methods as per GFCP (Good Field collection practices) 14. 16. GCP (Good cultivation practices), seed bank, conservation of medicinal plants, knowledge about RET (Rear, Endangered & Threatened) medicinal plants. 15. 17. Abhava Pratinidhi Dravya (substitutes) 16. 18. Classifications and techniques of aqueous and alcoholic extracts 17. 19. Adverse drug reaction and Pharmacovigilance with recent updates 18. 20. NMPB (National Medicinal Plant Board), CCRAS (Central Council of Research in Ayurveda Sciences), API (Ayurvedic Pharmacopeia of India), GCTM (Global Centre for Traditional Medicine), PCIMH (Pharmacopeia Commission of Indian Medicine and Homeopathy) 21. Vrikshayurveda and Ethno-medicine 20. 22. Network pharmacology and Bioinformatics | | |
| Q2 | Short answer Questions Eight Questions 5 Marks Each | 1. 2.Dravya2. 5. Vipaka3. 6. Virya4. 7. Prabhava5. 10. Karmas of Dashemani Gana | | |

| | All compulsory Must know - 7 SAQ Desirable to know - 1 SAQ No questions on Nice to know | 6. 11. Principles of General Pharmacology 7. 11. Principles of General Pharmacology 8. 12. Mishraka Gana |
|-------------|---|--|
| Q3 | Long answer Questions Four Questions 10 marks each All compulsory All questions on must know. No Questions on Nice to know and Desirable to know | 1. 3. Guna 2. 4. Rasa 3. 9. Karma 4. 9. Karma |
| Paper No:2 | | 1 |
| Question No | Type of Question | Question Paper Format |
| Q1 | Multiple choice Questions 20 Questions 1 mark each All compulsory Must know part - 15 MCQ Desirable to know - 3 MCQ Nice to know part - 2 MCQ | 2.2 Dravya (Drugs) Nama -Guna-Karma- Jnana |

| Q2 | Short answer Questions Eight Questions 5 Marks Each All compulsory Must know - 7 SAQ Desirable to know - 1 SAQ No questions on Nice to know | 14. 2.2 Dravya (Drugs) Nama -Guna-Karma-Jnana 15. 2.2 Dravya (Drugs) Nama -Guna-Karma-Jnana 16. 2.2 Dravya (Drugs) Nama -Guna-Karma-Jnana 17. 2.2 Dravya (Drugs) Nama -Guna-Karma-Jnana 18. 2.2 Dravya (Drugs) Nama -Guna-Karma-Jnana 19. 2.2 Dravya (Drugs) Nama -Guna-Karma-Jnana 20. 2.2 Dravya (Drugs) Nama -Guna-Karma-Jnana 2.2 Dravya (Drugs) Nama -Guna-Karma-Jnana 3. 2.2 Dravya (Drugs) Nama -Guna-Karma-Jnana 4. 2.1 Dravya (Drug) Nama-Guna-Karma Jnana 5. 2.2 Dravya (Drugs) Nama -Guna-Karma-Jnana 5. 2.2 Dravya (Drugs) Nama -Guna-Karma-Jnana 5. 2.1 Dravya (Drug) Nama-Guna-Karma-Jnana 6. 2.1 Dravya (Drug) Nama-Guna-Karma-Jnana 7. 2.2 Dravya (Drugs) Nama -Guna-Karma-Jnana 8. 2.1 Dravya (Drug) Nama-Guna-Karma-Jnana |
|----|---|---|
| Q3 | Long answer Questions Four Questions 10 marks each All compulsory All questions on must know. No Questions on Nice to know and Desirable to know | 1. 2.2 Dravya (Drugs) Nama -Guna-Karma- Jnana 2. 2.1 Dravya (Drug) Nama-Guna-Karma Jnana 3. 2.2 Dravya (Drugs) Nama -Guna-Karma- Jnana 4. 2.1 Dravya (Drug) Nama-Guna-Karma Jnana |

6 H Distribution of Practical Exam

| S.No | Heads | Marks | |
|------|---|-------|--|
| 1 | 1) 15 dry & 15 wet sample dravya spotting test- 30 minutesTest should include at least one each from Leaf, Stem, Root, Rhizome, Gall, Flower, Fruit , Seed, Bark & Resin. | | |
| 2 | 2) Skill based assessment - There shall be three components in skill assessment | 30 | |
| | A. Identify and separate Grahya & Agrahya of given sample- 10 minutes | | |
| | B. Identifying and grouping of drugs of given Mishraka Gana- 10 minutes | | |
| | C. Understand the clinical scenario and identify five suitable single drug- 10 minutes | | |
| | Instructions: | | |
| | • Spotting stations are to be numbered as per the batch. Each spotting station contain: A. Mixture of Grahya & Agrahya B. Name of Misraka Gana and C. Clinical Scenario. Students are allotted with the spotting station by lottery method. | | |
| | Arrangement of Spotting Stations: | | |
| | A. Identify and separate Grahya & Agrahya of Given Sample: Sufficient quantity (approximately 20 gm of Vidanga & Maricha) of mixture of Grahya and Agrahya dravya to be provided. There shall be two empty bowels each one labelled as 'Grahya' and 'Agrahya'. Students are asked to separate the given sample into Grahya and Agrahya. There shall be different drugs for each station. | | |
| | B. Identifying and grouping of drugs of given Misraka Gana: Each station shall contain one label containing name of the Misraka Gana with question 'Recollect the drugs belonging to the given Misraka Gana, identify those drugs, collect and make a group. There shall be empty bowl of sufficient size as per the given Gana for collection of drugs. | | |
| | C. Understand the clinical scenario and identify five suitable 5 single drugs: Provide the clinical scenario in not less than 100 words and not more than 200 words with or without investigation reports shall be provided at each spotting station (preferably separate cases for each station). Students are asked to go through the scenario and understand the clinical conditions , select 1 single drug, identify, collect and place it in the bowl given for the same. Select five suitable drugs and write as per preference base. | | |
| 3 | 3. QC practical (30 minutes)-Performance based components | 40 | |
| | • 3.1. Comparison Macroscopic evaluation of one genuine and one | | |

| Total Ma | 200 | |
|----------|--|----|
| 5 | 5. Internal Assessment | 30 |
| | 1. Fundamentals (Dravya, Guna, Rasa, Vipaka, Veerya & Prabhav)- 3 questions- 15 marks 2. Karmas, Dashemani, Mishrak Gana- 3 questions- 15 marks 3. Pharmacology & Network pharmacology- 3 questions- 15 marks 4. Clinical application of drugs- 3 questions - 15 marks 5. Viva on practical records -06 marks 6. Communication skill (4 marks) | |
| 4 | 4. Viva voce (10 minutes per student)Questions should be asked on following topics - | 70 |
| | adulterant sample -10 marks- 15 minutes 3.2. Panchamahabhoutikatwa assessment by parametric measures by pH of a given sample phant/ Kwatha - (Concern drug Phant / Kwatha should be prepared by college for pH analysis)- 10 marks - 15 minutes 3.3. Panchabhaoutikatwa assessment by parametric measures by Specific Gravity of a given sample Phat/ Kwatha (Concern drug Phant/ Kwatha should be prepared by college for Specific Gravity)- 20 marks- 30 minutes | |

| S.No | Book | Resources | | | | |
|------|---|---|--|--|--|--|
| 1 | Dravya Guna Shastram | Vaidya G.A. Phadke, Pradnya Mudranalaya, Vaidya Vamanrao Deenanath Shuddhaaayurved Pathyakrama Samitee, Dadabhai Navroji Path, Mumbai | | | | |
| 2 | Bhavaprakasha | Sri Brahmasankara Mishra and Sri Rupalalaji vaishya, Chaukhamba Sanskrit Series office, Varanasi, | | | | |
| 3 | Aushadhi Vigyna Shastra (Ayurvedic Pharmacology) | Sri. Vishvanatha Dwidevi ,Shri Baidyanath Ayurved Bhavan Pvt Ltd; Nagpur | | | | |
| 4 | Ayurvediya Aushadkarma Vigyana | Acharya V.J. Thakar, Gujurat Ayurveda University, Jamnagar | | | | |
| 5 | Bhava Prakash Nighantu | Vd. Krishna Chandra Chunekar Commentary, Chaukhambha Sanskrit Sansthan, Varanasi | | | | |
| 6 | Classical Uses of Medicinal Plants | Acharya Priyavrata Sharma ,Chaukhamba Visvabharati, Varanasi | | | | |
| 7 | Some Controversial Drugs in Indian Medicine | Dr. Bapalal, Vaidya, Chaukhambha Orientalia, Varanasi | | | | |
| 8 | Dravyaguna Kosha | Acharya Priyavrata Sharma, Chaukhambha Orientalia, Delhi | | | | |
| 9 | Dravyaguna Vigyana (Vol.1-3) | Dr. Gyanendra Pandey, Chaukhambha Krishnadas Academy, Varanasi | | | | |
| 10 | Dravyaguna Vigyana (Vol. 1-2) | Acharya Yadavji Tikramji,Baidyanath Ayurved Bhavan Ltd | | | | |
| 11 | Dravyaguna Vigyana (Vol. 1-5) | Acharya Priyavrata Sharma, Chaukhambha Bharti Academy, Varanasi | | | | |
| 12 | Nighantu Adarsh (Vol. 1-2) | Vd.G.Bapa Lal, Chaukhambha Bharti Academy, Varanasi | | | | |
| 13 | Ayurvedic Pharmacology & Therapeutic Uses of Medicinal Plants Dravyagunavignyan | Vaidya V M Gogte, Chaukhambha Publications, New Delhi | | | | |
| 14 | Dravyagunavijnana(Part I and II) | Prof.D.S.Lucas, Chaukhamba Visvabharati, Varanasi | | | | |
| 15 | Glossary of Vegetable Drugs in Brihattrayi | Thakur Balwant Singh & Vd. Krishna Chandra Chunekar,Chaukhamba Amarbharti Prakashakan, Varanasi | | | | |
| 16 | Introduction to Dravyaguna(English) | Acharya Priyavrata Sharma ,Chaukhambha Orientalia, Varanasi | | | | |
| 17 | A Text Book of Dravyaguna Vijnana (Vol 1,2 & 3) | Dr. Prakash L.Hegde and Dr. Harini A.,Chaukhambha Publications, New Delhi | | | | |
| 18 | Raspanchaka | Prof. Shiv Charan Dhyani, Chaukhambha Krishnadas Academy, Varanasi | | | | |

| 19 | Dravyaguna Siddhanta | Prof. Shiv Charan Dhyani,Chaukhambha Krishnadas Academy, Varanasi | |
|----|---|---|--|
| 20 | The Ayurvedic Pharmacopoeia of India, Part I Vol. 1-VII | Ministry of AYUSH. India, New Delhi | |
| 21 | Medicinal Plants used in Ayurveda (2nd Edition) | Rashtriya Ayurveda Vidyapeeth, New Delhi | |
| 22 | Plants of Bhavaprakash (English) | Prof.K.C.Chunekar & Dr. N.P. Hota,Rashtriya Ayurveda Vidyapeeth, New Delhi. | |
| 23 | Database of Medicinal Plants used in Ayurveda Vol. 1 to 8 | CCRAS New Delhi | |
| 24 | A Text Book of Dravyaguna Vijnana (Vol.1 to 2) | Dr. J. L. N Sastry and Dr. Tanuja M Nesari. | |
| 25 | Dravyaguna Vigyana (Vol.1to 2) | Dr. Manasi Deshpande and Dr Arvind Deshpande, <i>Chaukhamba Sanskrit</i> Pratisthan. New Delhi | |
| 26 | Essentials of Medical Pharmacology | K.D.Tripathi. Jaypee Brothers Medical Publishers (P) Ltd | |
| 27 | Pharmacological basis of Medical Practice | Goodman & Gillman,McGraw-Hill Education | |
| 28 | Pharmacology and Pharmacotherapeutics | Satoskar Bhandarkar & Ainapure,Popular Prakashan Mumbai | |
| 29 | Textbook of Pharmacognosy | Trease & Evans, Elsevier publication | |
| 30 | Textbook of Pharmacognosy | Tyler, Brady & Robber,Lea & Febiger, USA | |
| 31 | Quality Control of Herbal Drugs: An Approach to Evaluation of Botanicals | | |
| 32 | Ausadhinamarupa vijnanam (Vol. 1 and 2) | Dr Sanjeev Kumar Lale.,Mr. Hemraj Lale, Indore | |
| 33 | Practical Pharmacognosy | Dr. K. R Khandelwal and Dr. Vrunda Sethi , Nirali Prakashan Pune | |
| 34 | Pharmacognosy | S.B. Gokhale, C.K. Kokate and A.P. Purohit | |
| 35 | Botany of commonly used medicinal Plants with Diagnostic keys | Dr. Hema Sane and Dr. Yogini Kulkarni. Vision Publication Pune | |
| 36 | Basic Bioinformatics | S Gladis Hepsyba Helen, MJP Publishers | |
| 37 | Pharmacovigilance in Ayurveda | Manjunath Ajanal, B S Prasad, Shreddha U Nayak, Chaukhambha Prakashak, Varanasi | |
| 38 | Cultivation Of Medicinal And Aromatic Crops | Azhar Ali Farooqi, B. S. Sreeramu, Universities Press (India) Pvt. Ltd. Hyderabad | |

| 39 | WHO Guidelines on Good Agricultural and Collection Practices (GACP) for Medicinal Plants | World Health Organization, World Health Organization, Geneva K. Thammasiri, Chunlin Long, Henrik Lutken, Shaik Mahammad Khasim, Springer Link | | |
|----|--|---|--|--|
| 40 | Medicinal Plants: Biodiversity, Sustainable Utilization and Conservation | | | |
| 41 | Network Pharmacology | Shao Li, Springer Link | | |
| 42 | Vrikshayurveda - Ancient Science of Plant Life and Plant Care | S. Rajasekharan, G.S. Unnikrishnan Nair, Kerala State Biodiversity Board, Kerala | | |
| 43 | Evidence-Based Validation of Herbal Medicine - Translational Research on Botanicals | Pulok K. Mukherjee,Elsevier Science | | |
| 44 | Research updates of Gurvadiguna | 1. Vaidyabhushanam K. Raghavan Tirumulpad. Rasavaiseshika. (Text with commentary). Arya Vaidya Sala, Kottakkal Malappuram Dist., Kerala. 2. Interactive workshop on Ayurveda (Dravyaguna), Published by Rashtriya Ayurveda Vidyapeetha, New Delhi. 3. Mishra S, Dwivedi RR, Ravishankar B. Conceptual and applied study of Snigdha and Ruksa Guna with special reference to Rasa-raktagata Sneha (hyperlipidemia). Ayu. 2011 Apr;32(2):200-6. 4. Nair JU, Vyas HA, Nariya MB. An experimental study to evaluate <i>Gunasankarya</i> (combination of properties). Ayu. 2021 Oct-Dec;42(4):169-174. 5. Gupta, Monika & Gudipudi, Sarvabhouma & Pujar, Rashmi & Gopikrishna, S. (2019). Clinical aspect of Guna Siddhanta with special reference to Trisutra Ayurveda. 6. 2407-2414. | | |
| 45 | Research updates of Paradiguna | 1. Vaidyabhushanam K. Raghavan Tirumulpad. Rasavaiseshika. (Text with commentary). Arya Vaidya Sala, Kottakkal Malappuram Dist., Kerala. 2. Interactive workshop on Ayurveda (Dravyaguna), Published by Rashtriya Ayurveda Vidyapeetha, New Delhi. 3. Gupta, Monika & Gudipudi, Sarvabhouma & Pujar, Rashmi & Gopikrishna, S. (2019). Clinical aspect of Guna Siddhanta with special reference to Trisutra Ayurveda. 6. 2407-2414. | | |

| 46 | Research updates of Shadrasa | 1. Vaidyabhushanam K. Raghavan Tirumulpad. Rasavaiseshika. (Text with commentary). Arya Vaidya Sala, Kottakkal Malappuram Dist., Kerala. 2. Interactive workshop on Ayurveda (Dravyaguna), Published by Rashtriya Ayurveda Vidyapeetha, New Delhi. 3. Standard Protocol for quality assessment of Raw medicinal plants materials on the basis of Rasa. Ref: https://aiia.gov.in/wp- content/uploads/2021/12/RASA.pdf 4. Rath SK, Panja AK, Nagar L, Shinde A. The scientific basis of rasa (taste) of a substance as a tool to explore its pharmacological behavior. Anc Sci Life. 2014 Apr-Jun;33(4):198-202. 5. Gilca M, Dragos D. Extraoral Taste Receptor Discovery: New Light on Ayurvedic Pharmacology |
|----|------------------------------|---|
| 47 | Research updates of Vipaka | 1. Vaidyabhushanam K. Raghavan Tirumulpad. Rasavaiseshika. (Text with commentary). Arya Vaidya Sala, Kottakkal Malappuram Dist., Kerala. 2. Interactive workshop on Ayurveda (Dravyaguna), Published by Rashtriya Ayurveda Vidyapeetha, New Delhi. 3. Ranade AV, Shirolkar A, Pawar SD. Gut microbiota: One of the new frontiers for elucidating fundamentals of <i>Vipaka</i> in Ayurveda. Ayu. 2019 Apr-Jun;40(2):75-78. |
| 48 | Research updates of Virya | 1. Vaidyabhushanam K. Raghavan Tirumulpad. Rasavaiseshika. (Text with commentary). Arya Vaidya Sala, Kottakkal Malappuram Dist., Kerala. 2. Interactive workshop on Ayurveda (Dravyaguna), Published by Rashtriya Ayurveda Vidyapeetha, New Delhi. |

| 49 | Research updates of Prabhava | 1. Vaidyabhushanam K. Raghavan Tirumulpad. Rasavaiseshika. (Text with commentary). Arya Vaidya Sala, Kottakkal Malappuram Dist., Kerala. 2. Interactive workshop on Ayurveda (Dravyaguna), Published by Rashtriya Ayurveda Vidyapeetha, New Delhi. |
|----|------------------------------|---|
| 50 | Research updates of Karma | 1. Vaidyabhushanam K. Raghavan Tirumulpad. Rasavaiseshika. (Text with commentary). Arya Vaidya Sala, Kottakkal Malappuram Dist., Kerala. 2. Interactive workshop on Ayurveda (Dravyaguna), Published by Rashtriya Ayurveda Vidyapeetha, New Delhi. |

Abbreviations

Assessment

| S.No | Short form | Discription | |
|------|------------|-------------------------------|--|
| 1 | T-EMI | Theory extended matching item | |
| 2 | T- EW | Theory Essay writing | |
| 3 | T- MEQs | Theory MEQs | |
| 4 | T-CRQs | Theory CRQs | |
| 5 | T-CS | Theory case study | |
| б | T-OBT | Theory open book test | |
| 7 | P-VIVA | Practical Viva | |
| 8 | P-REC | Practical Recitation | |
| 9 | P-EXAM | Practical exam | |
| 10 | PRN | Presentation | |
| 11 | P-PRF | Practical Performance | |
| 12 | P-SUR | Practical Survey | |
| 13 | P-EN | Practical enact | |
| 14 | P-RP | Practical Role play | |
| 15 | P-MOD | Practical Model | |
| 16 | P-POS | Practical Poster | |
| 17 | P-CASE | Practical Case taking | |
| 18 | P-ID | Practical identification | |
| 19 | P-PS | Practical Problem solving | |
| 20 | QZ | Quiz | |
| 21 | PUZ | Puzzles | |
| 22 | CL-PR | Class Presentation, | |
| 23 | DEB | Debate | |
| 24 | WP | Word puzzle | |
| 25 | 0-QZ | Online quiz | |

| 26 | O-GAME | Online game-based assessment | |
|----|--------------|------------------------------|--|
| 27 | M-MOD | Making of Model | |
| 28 | M-CHT | Making of Charts | |
| 29 | M-POS | Making of Posters | |
| 30 | C-INT | Conducting interview | |
| 31 | INT | Interactions | |
| 32 | CR-RED | Critical reading papers | |
| 33 | CR-W | Creativity Writing | |
| 34 | C-VC | Clinical video cases, | |
| 35 | SP | Simulated patients | |
| 36 | РМ | Patient management problems | |
| 37 | СНК | Checklists | |
| 38 | OSCE | OSCE | |
| 39 | OSPE | OSPE, | |
| 40 | Mini-CEX | Mini-CEX | |
| 41 | DOPS | DOPS | |
| 42 | CWS | CWS | |
| 43 | RS | Rating scales | |
| 44 | RK | Record keeping | |
| 45 | СОМ | Compilations | |
| 46 | Portfolios | Portfolios | |
| 47 | Log book | Log book | |
| 48 | TR | Trainers report | |
| 49 | SA | Self-assessment | |
| 50 | РА | Peer assessment | |
| 51 | 360D | 360-degree evaluation | |
| 52 | TT-Theory | Theory | |
| 53 | PP-Practical | Practical | |
| 54 | VV-Viva | Viva | |

Domain

| S.No | Short form | Discription | |
|------|------------|-----------------------------|--|
| 1 | СК | Cognitive/Knowledge | |
| 2 | CC | Cognitive/Comprehension | |
| 3 | САР | Cognitive/Application | |
| 4 | CAN | Cognitive/Analysis | |
| 5 | CS | Cognitive/Synthesis | |
| 6 | СЕ | Cognitive/Evaluation | |
| 7 | PSY-SET | Psychomotor/Set | |
| 8 | PSY-GUD | Psychomotor/Guided response | |
| 9 | PSY-MEC | Psychomotor/Mechanism | |
| 10 | PSY-ADT | Psychomotor Adaptation | |
| 11 | PSY-ORG | Psychomotor/Origination | |
| 12 | AFT-REC | Affective/ Receiving | |
| 13 | AFT-RES | Affective/Responding | |
| 14 | AFT-VAL | Affective/Valuing | |
| 15 | AFT-SET | Affective/Organization | |
| 16 | AFT-CHR | Affective/ characterization | |

T L method

| S.No | Short form | Discription | | | |
|------|------------|---------------------------------------|--|--|--|
| 1 | L | Lecture | | | |
| 2 | L&PPT | Lecture with Power point presentation | | | |
| 3 | L&GD | Lecture & Group Discussion | | | |
| 4 | L_VC | Lecture with Video clips | | | |
| 5 | DIS | Discussions | | | |
| 6 | BS | Brainstorming | | | |
| 7 | IBL | Inquiry-Based Learning | | | |
| 8 | PBL | PBL | | | |
| 9 | CBL | CBL | | | |
| 10 | PrBL | Project-Based Learning | | | |
| 11 | TBL | TBL | | | |
| 12 | TPW | Team project work | | | |
| 13 | FC | Flipped classroom | | | |
| 14 | BL | Blended Learning | | | |
| 15 | EDU | Edutainment | | | |
| 16 | ML | Mobile learning | | | |
| 17 | ECE | ECE | | | |
| 18 | SIM | Simulation | | | |
| 19 | RP | Role plays | | | |
| 20 | SDL | Self-directed learning | | | |
| 21 | PSM | Problem solving method | | | |
| 22 | KL | Kinesthetic Learning | | | |
| 23 | W | Workshops | | | |
| 24 | GBL | Game-Based Learning | | | |
| 25 | D-M | Demo on Model | | | |

| 26 | LS | Library Session | | | |
|----|-------|---------------------------|--|--|--|
| 27 | PL | Peer learning | | | |
| 28 | RLE | Real life experience | | | |
| 29 | REC | Recitation | | | |
| 30 | SY | Symposium | | | |
| 31 | TUT | Tutorial | | | |
| 32 | PER | Presentations | | | |
| 33 | РТ | Practical | | | |
| 34 | XRay | X ray identification | | | |
| 35 | CD | Case diagnosis | | | |
| 36 | LRI | Lab report interpretation | | | |
| 37 | DA | Drug analysis | | | |
| 38 | D | Demonstration | | | |
| 39 | D_BED | Demonstration bedside | | | |
| 40 | D_L | Demonstration Lab | | | |
| 41 | DG | Demonstration Garden | | | |
| 42 | FV | Field visit | | | |
| 43 | PRA | Practical | | | |
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COURSE CURRICULUM FOR FIRST PROFESSIONAL BAMS (PRESCRIBED BY NCISM)



RACHANA SHARIRA (SUBJECT CODE- AyUG-RS) HUMAN ANATOMY

(Applicable from 2021-22 batch onwards for 5 years or until further notification by NCISM, whichever is earlier)



BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110058



Rachana

NCISM

I Professional Ayurvedacharya (BAMS)

Subject Code: AyUG-RS

Rachana Sharir

(Human Anatomy)

Summary

| AyUG-RS Total number of Teaching hours: 500 | | | | |
|--|----------|-----------|-----------|--|
| Lecture hours (LH) - Theory | | | 100 11 | |
| Paper I | 90 Hours | 180 Hours | 180 Hours | |
| Paper II | 90 Hours | | (LH) | |
| Non-Lecture hours (NLH) – Theory | | | | |
| Paper I | 40 Hours | 80 Hours | 320 Hours | |
| Paper II | 40 Hours | 1 | (NLH) | |
| Non-Lecture hours (NLH) - Practical | | 240 Hours | | |

| AyUG-RS Examination (Papers & Mark Distribution) | | | | | | |
|---|------------------------|---------------------------|------|----------|----|--|
| Item | Theory Component Marks | Practical Component Marks | | | | |
| | | Practical | Viva | Elective | IA | |
| Paper I | 100 | 100 | 70 | | 20 | |
| Paper II | 100 | 100 | 70 | | 30 | |
| Sub-Total | Sub-Total 200 200 | | | | | |
| Total marks | Total marks 400 | | | | | |

Preamble

The primary purpose for teaching Rachana sharir to undergraduate students is to provide a thorough understanding of the basic principles of Sharir. Gross and microscopic structure and development of the human body in perspective of ancient and modern sciences, as well as to acquire necessary skills. Sharir in Ayurveda also provides in depth views to concepts like Marma and srotas. Learning of Sharir is most useful in further years in diagnosis and management of the diseases.

Various teaching and learning methods, including didactic, demonstration, tutorial, group discussion, seminars, Integrated Teaching (IT), Problem Based Learning (PBL), and Early Clinical Exposure (ECE), Case-Based Learning (CBL), Virtual Dissection, and cadaveric dissection, are used to transfer knowledge to students, and the syllabus is constructed accordingly. As a result, the students appreciate being a part of the teaching and learning process. This will help the students to become competent, self-assured, caring, and concerned humans capable of providing ethical medical treatment.

Index

| Course Code and Name of Course | 5 |
|---|----|
| AyUG RS | 5 |
| Rachana Sharir (Human Anatomy) | 5 |
| Table 1- Course learning outcomes and matched PO. | 5 |
| Table 2: Contents of Course AyUG-RS | 6 |
| Paper I | 6 |
| Paper II AyUG-RS | 8 |
| Table 3: Learning objectives (Theory) of Course AyUG-RS | |
| Paper I | |
| Paper II | |
| List of Practicals AyUG-RS | |
| Table 4: Learning objectives (Practical) of AyUG- RS | |
| Table 5: Non-Lecture Activities Course AyUG-RS | |
| Table 6: Assessment Summary | |
| 6 A - Number of Papers and Marks Distribution | |
| 6 B - Scheme of Assessment (formative and Summative) AyUG-RS | |
| 6 C - Calculation Method for Internal assessment Marks (30 Marks) AyUG-RS | 41 |
| 6 D - Evaluation Methods for Periodical Assessment | 41 |
| 6 E - Paper Layout | |
| PAPER-1 | |
| PAPER-1I | |
| 6 F – I - Distribution of Theory exam AyUG- RS | |
| Paper I | |
| Paper II | |
| 6 F – II - Theme table | |
| Paper-I: | 44 |
| Paper-II | |
| 6 G Question paper Blue print for AyU-RS: | |
| PAPER-I | |
| PAPER-II | |
| 6 H - I - Distribution of Practical Exam | 47 |
| 6 H - II Practical Spot examination | 47 |
| 6 H - III Viva Voce | |
| 7. Reference and Resourses | |
| | |

Course Code and Name of Course

| Course code | Name of Course |
|-------------|--------------------------------|
| | |
| AyUG RS | Rachana Sharir (Human Anatomy) |
| | |

AyUG RS

Table 1- Course learning outcomes and matched PO.

| SR1 | A1 | B1 |
|-------|---|----------------------|
| СО | Course learning Outcome (CO) AyUG RS | Course learning |
| No | At the end of the course AyUG RS, the student should be able | Outcome matched with |
| | to- | program learning |
| | | outcomes. |
| CO1 | Describe the fundamentals of Rachana Sharir, interpret and analyze it in relevant context and recognize its significance in Ayurveda | PO1, PO2 |
| CO 2 | Explain Garbha Sharir and Embryology in Ayurveda and modern science respectively with clinical significance | PO1, PO2 |
| CO 3 | Describe and demonstrate all the bones and joints with attachments of associated structures and its clinical application | PO1, PO2 |
| CO 4 | Explain the concept of Sira-Dhamani-Strotas, their organization in the human body and its applied aspect | PO1, PO2 |
| CO 5 | Identify the Marmas and understand its classification along with its importance in preventive and therapeutic aspect | PO1, PO2 |
| CO 6 | Explain and demonstrate the gross anatomy of the organs of various systems and their applied anatomy in perspective of Ayurveda and Modern science | PO1, PO2, PO3 |
| CO 7 | Explain the Indriva Sharir and Sensory organs with its application in preventive and therapeutic domain. | PO1, PO2 |
| CO 8 | Identify and locate all the structures of body and mark the topography of the living Sharir. | PO1, PO3 |
| CO 9 | Respect the cadaver and perform dissection with commitment to reiterate the theoretical aspect of Ayurved Rachana Sharir and contemporary sciences. | PO1, PO3, PO5 |
| CO 10 | Describe the basic principles of imaging technologies and identify the anatomical structures in the radiograph | PO1, PO2, PO3 |

Table 2: Contents of Course AyUG-RS

| Pap | er I | | | | |
|-----|---|------------|-------------|------------------------|--------------------------------|
| SN | A2 List of Topics AyUG-RS | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
| 1 | Shariropkramaniya Shaarira Sharir and Shaarir vyakhya (definitions of sharira and sharira) Shadangatvam (Six regions of the body) Anga Pratyanga vibhaga (subdivisions) Sharir shastra vibhag Sharir gyan prayojan and its description in contemporary science with its clinical importance | I | 6 | 4 | 2 |
| 2 | Paribhasha Shaarira Kurcha, Kandara, Jala, Asthisamghata, Seemnta, Seevani, Rajju, and lasika Terminologies related shadang sharir | Ι | 4 | 3 | 1 |
| 3. | Garbha Shaarira Garbha Vyakhya (Definition of Garbha) Concept of Shukra and Artava Garbhavkranti. Masanumasik grabhavruddhi Role of panchamahabhoot in Garbhavruddhi Concept of Beeja, Beejabhaga, Beejabhagavayava Garbhposhana Apara nirmiti, Garbhanabhinadi Garbha Angapratyanga utpatti according to different Acharya Garbha Vikruti | I | 15 | 17 | 5 |
| 4. | Asthi Shaarira Enumeration of Asthi, Types, asthi swaroopa, with its applied aspect | Ι | 4 | 2 | 1 |
| 5. | Sandhi Shaarira Description of Sandhi and its enumeration, Types of Sandhi with its clinical importance Introduction of diseases of Sandhi explained in Ayurveda | п | 4 | 2 | 3 |
| 6. | Snayu sharir Concept of Snayu and its clinical importance | II | 3 | 2 | 1 |
| 7. | Peshi Shaarira Description of Peshi, Utpatti, types, Swaroop, function with its importance | II | 3 | 2 | 1 |
| 8. | Kesha, Danta, Nakha Sharir Description of Panchbhautik swaroop and its applied value Explanation of its swabhava (Pitruja) and its applied value Description of Prakrita (normal) and Vikruta(abnormal) Swaroop (appearance) of kesha, danta, nakha in concern with disease Importance of examination of kesha, danta, nakha | п | 4 | 2 | 1 |

| | as diagnostic tool | | | | |
|----|---|-----|----|----|---|
| 9 | Embryology | | | | |
| | Definitions and branches of embryology. Embryo and Fetus. Sperm and Ovum, Fertilization, Cleavage. Germ layers formation and their derivatives. Laws of heredity, Sex determination and differentiation, Month-wise development of embryo. Fetal circulation, Placenta formation, Umbilical | Ι | 5 | 7 | 2 |
| 10 | cord formation | | | | |
| 10 | Osteology Bone: structure, types and ossification. Description of each bone with clinical anatomy | Ι | 12 | 9 | 6 |
| 11 | Arthrology | | | | |
| | Joints: structure, types and movements. Description of joints of extremities, inter-vertebral joints and temporomandibular joint with their clinical anatomy. | п | 10 | 10 | 6 |
| 12 | Myology | | | | |
| | Structure and types of muscles. Description of important muscles: origin, insertion, actions, nerve supply and clinical anatomy. Muscle movements in Yogasana | Π | 4 | 6 | 2 |
| 13 | Nervous System | | | | |
| 13 | Nervous system Nervous system: Introduction and classification Meninges Description of Brain and Spinal cord. Description of Peripheral Nervous System: Cranial and Spinal nerves, Brachial, Cervical, Lumber and Sacral nerve plexus, Anatomical consideration of Autonomic Nervous System, Formation and circulation of cerebrospinal fluid Blood supply of Brain and Spinal cord. | III | 14 | 14 | 4 |
| 14 | Endocrinology | | | | |
| | Description of endocrine glands (Pituitary, Thyroid, Parathyroid, Thymus, Pineal and Suprarenal glands) with clinical aspects. Histology of all glands. | III | 8 | 8 | 3 |
| 15 | Lymphatic system | | | | |
| | Introduction Structure included in lymphatic system: Lymph vessels, Lymph nodes, Lymph glands with their clinical importance. | III | 4 | 2 | 2 |

| SN | er II AyUG-RS A2 List of Topics AyUG-RS | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
|----|--|------------|-------------|------------------------|--------------------------------|
| 1 | Pramana Sharira: Anguli pramana & Anjali praman with its applied importance | п | 2 | 2 | 1 |
| 2 | Koshtha Evam Ashaya Sharira Definition of Kostha with its applied importance and Enumeration of Koshthanga and its description Concept of Ashaya with its clinical importance | Ι | 4 | 2 | 1 |
| 3. | Sira Sharir Concept of Sira Nirukti, types, enumeration of Sira and its applied aspect Introduction to Sira vedha | п | 4 | 3 | 1 |
| 4. | Dhamani Sharir Concept of Dhamani Nirukti, types, enumeration of Dhamani and its applied aspect | п | 2 | 2 | 1 |
| 5. | Strotas Shaarira Concept of Strotas Nirukti, types, number of Srotas, Strotomool and its applied aspect Types of Strotas and its description. Applied aspect of Strotas | п | 7 | 8 | 3 |
| 6. | Kala Shaarira Definition and etymology of Kala Enumeration and description of Kala Applied aspect of Kala | III | 4 | 2 | 2 |
| 7. | Indriya Shaarira Definition of Indriya, Indriya artha and Indriya adhisthan, Number and importance of Indriya Description of Gyanendriya, Karmendriya and Ubhayendriya (Manas). Ayurved sharir of Indriya adhistan- Karna, Twacha, Netra, Jivha, Nasa Applied aspect of Indriya | III | 3 | 3 | 1 |
| 8. | Twacha Sharir Definition, types and characteristics of Twacha with its clinical importance, significance of Twacha adhisthana in disease manifestation, its relation with Dhatu. | III | 3 | 2 | 2 |
| 9 | Marma Sharira Marma: definition, enumeration, classification, location Surface demarcation of Marma Explanation of Trimarma | п | 15 | 13 | 4 |

| | • Detail description of Marma with its applied | | | | |
|-----|---|-----|----|----|---|
| | importance. | | | | |
| 10 | Respiratory System | | | | |
| | • Bronchial tree and Lungs with their clinical | | | | |
| | aspects. | | | | |
| | • Respiratory tract: Nasal cavity, Pharynx, Larynx, | п | 10 | 6 | 4 |
| | Trachea | | 10 | 0 | |
| | • Pleura with its clinical aspects | | | | |
| | • Diaphragm and its opening | | | | |
| | Histology of all organs | | | | |
| 11 | Digestive system | | | | |
| | • Regions of abdomen | | | | |
| | • Organs of digestive tract (alimentary tract) with | | | | |
| | their clinical aspects. | Ι | 12 | 10 | 6 |
| | • Digestive glands: Liver, Spleen and Pancreas. | | | | |
| | • Description of peritoneum with its clinical aspects | | | | |
| | • Histology of all organs | | | | |
| 12 | Cardiovascular system | | | | |
| | Description of Heart | | | | |
| | • Structure of artery & vein | | | | |
| | • Importance blood vessels with their course and | II | 8 | 8 | 3 |
| | branches. | | | | |
| | • Pericardium with applied aspect | | | | |
| | Histology of Heart | | | | |
| 13 | Urinary System | | | | |
| | Urinary tract: Kidney, Ureter, Urinary | | 10 | 0 | 2 |
| | Bladder and Urethra with their clinical | II | 10 | 8 | 3 |
| | aspects | | | | |
| 1.4 | Histology of all organs | | | | |
| 14 | Reproductive system | | | | |
| | • Male Reproductive system: Reproductive | | | | |
| | organs, Scrotum and glands (Testis, Prostate and Seminal vesicles) with their clinical | | | | |
| | aspects. | | _ | _ | |
| | Female reproductive system: Introduction of | III | 6 | 7 | 3 |
| | external genital organ in brief and internal | | | | |
| | reproductive organs in detail, tract and glands | | | | |
| | with clinical importance. | | | | |
| | Histology of all organs | | | | |
| 15 | Sensory organs | | | | |
| | Description of structures of Eye, Ear, Nose, Tongue | III | 10 | 14 | 5 |
| | and Skin with their clinical aspects. | | | | |

Table 3: Learning objectives (Theory) of Course AyUG-RS

| Paper I | RACHANA SHARIR – | | | | | | | | |
|-----------------------------|---|----------------------------------|---|--|--------------------------------------|--|---------------------------------------|----------------|-----------------------|
| A3 Course outcom e | B3 Learning Objective (At the end of the session, the students should be able to) | Domain/ sub | D3 Must to know/ desirable to know/Ni ce to know | E3 Level Does/ Shows how/ Knows how/ Know | F3 T-L method | G3 Assessment | H3 Formati ve /summa tive | I3 Te rm | J3 Integrat ion |
| Topic 1- | Shariroupkramaniya [Time: | Lecture: 04 ho | ours, non-le | cture 02 hours |] Practical- 02 hours | | | | |
| CO1 | Define Sharir. | Cognitive / Recall | МК | Knows | Lecture | Written / viva-voce/ Open book test | F&S | I | |
| CO1 | Describe the constitutional elements of Sharir | Cognitive/ Comprehense on | i MK | Knows | Lecture | Written/ viva-voce | F&S | Ι | |
| CO1 | Analyze the Constitutional hierarchy of Sharir and its relevance | Cognitive/ analyze | DK | Knows how | Lecture/ GD | Written / viva-voce | F&S | I | |
| CO1 | Enlist Anga -Pratyanga and specific terms for each Pratyanga | Cognitive/ Recall | МК | Knows | Lecture/ GD | Written/ viva-voce | F&S | Ι | |
| CO1 | Describe the Importance of Pratyaksha (Demonstration & Dissection) method of learning Sharir | Cognitive - comprehensi on | MK | Knows how | Lecture/ demonstration/ TT/ GD | Written / viva-voce | F&S | I | |
| CO1 | Explain the Mruta Samshodhana as mentioned | Cognitive / Comprehension | i MK | Knows | Demonstration/ simulation/ | Written / viva-voce | F&S | Ι | |

| | in Sushruta Samhita and as per the modern science. | Psychomotor | | | | | | | |
|---------|---|---------------------------------------|------------|------------------|---------------------------------------|---|-------|---|---|
| CO1 | Appraise the concept of body donation and its relevance in present scenario | Cognitive - analysis, Affective | NK | Knows | Lecture/ educational video/ SDL | Written / viva-voce | F&S | Ι | |
| Topic 2 | 2- Paribhasha Sharir [Time: Le | cture: 03 hours, | non-lectu | ure 01 hours] Pr | actical- 6 hours | | | | |
| CO1 | Explain the terms Kandara, Kurcha, Mamsa, Rajju, Sevani, Jala, Seemant, Asthi Sanghat in context to its enumeration, site and structure. | Cognitive / comprehensi on | МК | Knows | Lecture/ Demonstration | Written/ viva-voce/ Open book test | F&S | Ι | |
| CO1 | Evaluate the clinical importance of Kandara, Kurcha, Mamsa, Rajju, Sevani, Jala Seemant, Asthi and Samghat | Cognitive/ Application | DK | Knows how | Lecture/ Demonstration/ SDL | Written/ viva-voce | S | Ι | |
| Topic 3 | 3- Garbha Sharir [Time: Lectur | e: 17 hours, non- | -lecture (|)5 hours] | | | | | |
| CO 2 | Define Garbha and recall the related verse from samhitas. | Cognitive / knowledge | MK | Knows | Lecture/ Recitation | Written/ viva-voce | F & S | Ι | - |
| CO 2 | Explain the concept of Shukra and recall the related verse from samhitas. | Cognitive / comprehensi on | МК | Knows | Lecture/ Recitation | Written/ viva-voce | F & S | Ι | - |
| CO 2 | Explain the concept of Artava and recall the related verse from samhitas. | Cognitive / comprehensi on | MK | Knows | Lecture/ recitation | Written/ viva-voce | F & S | Ι | - |
| CO 2 | Describe the role of tridosha and panchamahabhuta in the fetal development | Cognitive / comprehensi on | МК | Knows how | Lecture/ IT | Written/ viva-voce | F & S | Ι | Dept. of Streerog Prasuti tantra |
| CO 2 | Explain the concept of Beeja, Beejbhaag, Beejabhagavayava | Cognitive / Comprehensi on | МК | Knows | Lecture/ GD/ TT | Written/ viva-voce | F & S | Ι | Dept. of Streerog Prasuti tantra |

| CO 2 | Describe Masanumasik Garbha vriddhi kram and recall the related verse from samhitas. | Cognitive / comprehensi on | МК | Knows how | Lecture/ Recitation/ demonstration with 3D animated video | Written/ viva-voce/ Open book test | F & S | Ι | - |
|---------|---|----------------------------------|------------|---------------------|---|---|-------|----|---|
| CO 2 | Describe Garbhaposhana | Cognitive / comprehensi on | МК | Knows how | Lecture | Written/ viva-voce/ Open book test | F & S | Ι | - |
| CO 2 | Describe the formation of Apara according to Ayurved | Cognitive / knowledge | МК | Knows, Knows how | Lecture/ demonstration with 3D animated video | Written/ viva-voce/ Open book test | F & S | Ι | - |
| CO 2 | Describe Garbha nabhinadi | Cognitive / knowledge | MK | Knows | Lecture | Written/ viva-voce | F & S | Ι | - |
| CO 2 | Explain Angapratyanga utpatti with the related verse from samhitas. | Cognitive / comprehensi on | МК | Knows how | Lecture/ demonstration with 3D animated video/ | Written/ viva-voce/ Assignments/ Open book test | F & S | Ι | Dept. of Streerog Prasuti tantra |
| Topic 4 | - Asthi Shaarira [Time: Lecture | e: 02 hours, non- | lecture 0 | 1 hours] | | | | | |
| CO1 | Enlist the number of Asthi according to different Acharyas | Cognitive/ Recall | МК | Knows how | Lecture | Written / viva-voce/ Open book test | F & S | Ι | |
| CO1 | Describe the Asthi Sanghata and Asthi Simanta | Cognitive/ comprehensi on | МК | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | Ι | |
| Topic 5 | - Sandhi Sharir [Time: Lecture | 02 hours, non- | lecture 03 | hours] | | | | | |
| CO 3 | Define the term Sandhi | Cognitive – Recall | MK | Knows | Lecture | Written/ viva-voce | F&S | II | |
| CO 3 | Classify Sandhi into different types. | Cognitive – Recall | МК | Knows | Lecture | Written/ viva-voce/ project work | F&S | II | |
| CO 3 | Demonstrate the movements of Chala Sandhi and | Cognitive – Application | MK | shows | Lecture + | Written/ viva-voce | F&S | II | |

| | comprehend the structural appearance | Psychomotor | | | Demonstration thorugh model/ simulation | | | | |
|---------|---|--------------------------------------|------------|------------------|---|---|-------|----|------------------|
| CO 3 | Illustrate the applied aspect of Sandhi and introduction of diseases of Sandhi explained in Ayurveda | Cognitive - Application | DK | Knows how | Lecture/ ECE/ SDL/ Seminar | Written/ viva-voce/ Assignment | F&S | II | Kayachi kitsa |
| Topic 6 | 5- Snayu Sharir [Time: Lecture: | 02 hours, non-le | ecture 01 | hours] | | | | | |
| CO 6 | Describe Snayu with respect to its definition, structure, types, number, importance with its clinical importance | Cognitive/ comprehensi on | МК | Knows how | Lecture with demonstration/ SDL/Seminar | Written/ Viva -voce/ Open book test | F&S | II | |
| Topic 7 | 7- Peshi Sharir [Time: Lecture: (|)2 hours, non-lea | cture 01 h | ours] | | | | | |
| CO 5 | Describe Peshi Sharir and its classification as per Ayurveda | Cognitive – comprehensi on | МК | Knows | Lecture/ Demonstration/ SDL/ Seminar | Written/ Viva-voce/ Open book test | F&S | II | |
| Topic 8 | - B- Kesha, Danta, Nakha Sharir | [Time: Lecture: | 02 hours, | , non-lecture 01 | hours] | | | | · |
| CO 6 | Describe Panchabhautik Swaroop, Swabhav (Pitruja) with its applied value in Prakriti and also explain related diseases with importance of examination kesha, danta, nakha as diagnostic tool | Cognitive/ comprehensi on | МК | Knows how | Lecture with demonstration with 3D animated video/ SDL | Written/ Viva -voce/ Open book test/ Assignment | F&S | II | |
| Topic 9 | - Embryology [Time: Lecture: (| 7 hours, non-lec | cture 02 h | ours] | | | | | |
| CO 2 | Define embryology and enlist its branches | Cognitive / knowledge / recall | DK | Knows | Lecture | Written/ viva-voce | F & S | Ι | |
| CO 2 | Define Embryo and Foetus | Cognitive / knowledge / recall | MK | Knows | Lecture | Written/ viva-voce | F & S | Ι | |

| CO 2 | Describe the anatomical structure of Sperm and Ovum and explain its clinical importance | Cognitive / comprehensi on | МК | Knows how | Lecture/ Demonstration | Written/ viva-voce/ Assignment | F & S | Ι | |
|------|--|---|----|-----------|---|--|-------|---|---|
| CO 2 | Define term of fertilization | Cognitive / knowledge / recall | МК | Knows | Lecture/ Seminar | Written/ viva-voce | F & S | Ι | |
| CO 2 | Describe the process of cleavage | Cognitive / comprehensi on | МК | Knows how | Lecture/ Educational 3D Animated videos | Written/ viva-voce | F & S | Ι | |
| CO 2 | Explain the process of germ layer formation and its derivatives | Cognitive / comprehensi on | МК | Knows how | Lecture/ Educational 3D Animated videos | Written/ viva-voce | F & S | Ι | Dept. of Streerog Prasuti tantra |
| CO 2 | Explain the laws of heredity | Cognitive / comprehensi on | МК | Knows how | Lecture/ Seminar | Written/ viva-voce | F & S | Ι | Dept. of Streerog Prasuti tantra |
| CO 2 | Describe the process of sex determination and differentiation | Cognitive / comprehensi on | NK | Knows how | Lecture/ Seminar | Written/ viva-voce | F & S | Ι | |
| CO 2 | Explain the month wise development of Foetus | Cognitive / comprehensi on | МК | Knows how | Lecture/ Demonstration | Written/ viva-voce/ Open book test/ Project work | F & S | Ι | Dept. of Streerog Prasuti tar |
| CO 2 | Explain foetal circulation and the changes in the circulation after birth | Cognitive / comprehensi on | МК | Knows how | Lecture/Demonstrat ion | Written/ viva-voce | F & S | Ι | |
| CO 2 | Describe Placenta formation & its structure with applied anatomy | Cognitive / application | МК | Knows how | Lecture/ Seminar/ ECE | Written/ viva-voce | F & S | Ι | Dept. of Streerog Prasuti tantra |
| CO 2 | Describe Umbilical cord with clinical importance | Cognitive / knowledge / application | МК | Knows how | Lecture/ Seminar/ ECE | Written/ viva-voce | F & S | Ι | Dept. of Streerog Prasuti tantra |

| Topic 1 | 0- Osteology [Time: Lecture: 09 | hours, non-lect | ure 06 ho | ours] Practical- | 20 hours | | | | |
|---------|---|--|-----------|------------------|---------------------------------------|------------------------|-------|---|--|
| CO3 | Explain skeleton and its importance | Cognitive/ comprehensi on | МК | knows | Lecture/ Demonstration/ Seminar | Written / viva-voce | F & S | Ι | |
| CO3 | Describe the uses of bones | Cognitive/ comprehensi on | МК | Knows | Lecture | Written / viva-voce | F & S | Ι | |
| CO3 | Describe and demonstrate the processes and depressions of various bones | Cognitive/ comprehensi on, Application | МК | Show how | Lecture / Demonstration | Written / viva-voce | F & S | Ι | |
| CO3 | Describe the characteristics of the bones | Cognitive/ comprehensi on | МК | Knows | Lecture | Written / viva-voce | F & S | Ι | |
| CO3 | Describe the development and ossification of bones | Cognitive/ comprehensi on | DK | Knows how | Lecture | Written / viva-voce | F & S | Ι | |
| CO3 | Describe and demonstrate Cranial bones and its applied anatomy | Cognitive / comprehensi on, Application | МК | Shows how | Lecture/ Demonstration | Written / viva-voce | F & S | Ι | |
| CO3 | Describe and demonstrate Facial bones and its applied anatomy | Cognitive / comprehensi on, Application | DK | Shows how | Lecture/ Demonstration | Written / viva-voce | F & S | Ι | |
| CO3 | Describe and demonstrate pelvic bones and its applied anatomy | Cognitive / comprehensi on, Application | МК | Shows how | Lecture/ Demonstration | Written / viva-voce | F & S | Ι | |
| CO3 | Describe and demonstrate vertebral column and its applied anatomy | Cognitive / comprehensi on, Application | МК | Shows | Lecture/ Demonstration | Written / viva-voce | F & S | Ι | |
| CO3 | Describe and demonstrate thorax bones and its applied anatomy | Cognitive / comprehensi | МК | Shows how | Lecture/ Demonstration | Written / viva-voce | F & S | Ι | |

| | | on, Application | | | | | | | |
|---------|--|--|------------|------------------|---|--|-------|----|------------------|
| CO3 | Describe & demonstrate Clavicle and Scapula and its applied anatomy | Cognitive / comprehensi on, Application | МК | Shows how | Lecture/ Demonstration | Written / viva-voce | F & S | Ι | Kayachi kitsa |
| CO3 | Describe Phalanges, Carpal and Tarsal Bones and its applied anatomy | Cognitive / comprehensi on | DK | Knows | Lecture/ Demonstration | Written/ viva-voce | F & S | Ι | |
| CO3 | Describe & demonstrate bones of the upper & lower extremity and its applied anatomy | Cognitive / comprehensi on, Application | МК | Shows how | Lecture/ Demonstration | Written / viva-voce/ Project work | F & S | Ι | |
| CO3 | Describe & demonstrate Patella and its applied anatomy | Cognitive / comprehensi on, Application | DK | Shows | Lecture/ Demonstration | Written / viva-voce | F & S | Ι | |
| CO10 | Recognize and describe the Radiological structures in radiograph | Cognitive / comprehensi on, Application | МК | Shows | Lecture/ Demonstration/ PBL/ ECE/ SDL | Written / viva-voce/ Project work/ Assignment | F & S | Ι | |
| Topic 1 | 1- Arthrology [Time: Lecture: | 10 hours, non-le | cture 06 l | nours] Practical | - 8 hours | · | | | |
| CO 3 | Recall the classification of Joints | Cognitive – Recall | MK | Knows | Lecture | Written/ viva-voce | F&S | II | |
| CO 3 | Demonstrate movements of Synovial Joints and comprehend the structural aspect helping in movements. | Cognitive – Application Psychomotor | МК | Knows how | Lecture/ Demonstration/ Simulation | Written/ viva-voce | F&S | II | |
| CO 3 | Describe constitutional anatomy of joint | Cognitive – Comprehensi on | МК | Knows | Lecture | Written/ viva-voce | F&S | II | |
| CO 3 | Describe joints of upper limb and lower limb region, TM joint, and its related applied aspect | Cognitive – Application | МК | Knows how | Lecture/ PBL/ ECE | Written/ viva-voce/ Open book test/ Assignment | F&S | II | Kaychikit sa |

| CO 3 | Demonstrate the examination of synovial joints | Psychomotor | МК | Knows + Shows | Demonstration with case presentation in relative aspect/ ECE/ SDL/ 3D Animated videos | Written/ viva-voce/ Practical performance | F&S | II | Rognidan |
|---------|--|---|------------|------------------|--|--|-------|-----|------------------|
| Topic 1 | 2- Myology [Time: Lecture: 06 | hours, non-lect | ure 02 ho | urs] Practical- | 8 hours | | | | |
| CO5 | State the types of muscles. | Cognitive – application Psychomotor | МК | Knows | Lecture | Written/ Viva-voce | F & S | II | |
| CO5 | Describe and demonstrate the muscles of upper and lower extremity with their origin, insertion, action & nerve supply and applied aspect and its role in Yogasana | Cognitive – application | MK | Shows | Lecture/ Demonstration/ GD/TT/ SDL/ 3D Animated videos | Written/ Viva-voce/ Open book test/ Project work | F & S | Π | Swasthvrit ta |
| CO5 | Describe and demonstrate muscles of thorax and abdomen with their origin, insertion, action & nerve supply and applied aspect and its role in Yogasana | Psychomotor | МК | Shows | Lecture/ Demonstration/ GD/TT/ SDL/ 3D Animated videos | Written/ Viva-voce/ Open book test/ Project work | F & S | II | Swasthvrit ta |
| CO5 | Describe and demonstrate muscles of back with origin, insertion, action & nerve supply and applied aspect and role in Yogasana | Cognitive – application | DK | Shows | Lecture/ Demonstration/ GD/TT/ SDL/3D Animated videos | Written/ Viva-voce/ Open book test/ Project work | F & S | Π | Swasthvri tta |
| Topic 1 | 3- Nervous System [Time: Lect | ure: 14 hours, no | on-lecture | 04 hours] Pra | ctical- 12 hours | | | | |
| CO6 | Explain the hierarchy of structural unit | Cognitive-/ comprehensi on | MK | Knows | Lecture/ Demonstration | Written/ viva-voce | F&S | III | |
| CO6 | Describe the functional and structural division of the nervous system | Cognitive- comprehensi on | МК | Knows how | Lecture/ Seminar | Written/ viva-voce | F&S | III | |

| CO6 | Explain the parts of Brain (Cerebrum, Cerebellum) | Cognitive – comprehensi on | МК | Knows, Knows how | Lecture/ Demonstration | Written/ viva-voce/ Open book test | F&S | III | |
|-----|--|---|----|---------------------|--|---|-----|-----|------------------|
| CO6 | Describe external and internal features of Spinal cord. | Cognitive – comprehensi on | МК | Knows, Knows how | Lecture/ Demonstration/ 3D animated videos | Written/ viva-voce/ Open book test | F&S | Ш | |
| CO6 | Illustrate the Blood supply of Brain and Spinal cord. | Cognitive – comprehensi on | МК | Knows, Knows how | Lecture/ Demonstration/ 3D animated videos | Written/ viva-voce/ Open book test | F&S | III | |
| CO6 | Describe the external features of diencephalon Mid brain, Pons, Medulla oblongata. | Cognitive- Comprehensi on | DK | Knows | Lecture/ Demonstration/ 3D animated videos | Written/ viva-voce/ Open book test | F&S | Ш | |
| CO6 | Describe the limbic system | Cognitive- Comprehensi on | NK | Knows | Lecture/ Demonstration/ 3D animated videos | Written/ viva-voce/ Open book test | F&S | III | |
| CO6 | Describe the general Sulci and gyri of cerebrum and determine the clinical importance of Broadman's classification | Cognitive – application | МК | Knows Knows how | Lecture/ Demonstration/ 3D animated videos | Written/ viva-voce/ Open book test | F&S | III | |
| CO6 | Describe the ascending, descending pathways, upper motor neurons and lower motor neurons, its applied aspect in examination of nervous system | Cognitive/ application Affective /responding | DK | Knows how | Lecture/ Demonstration/ CBL, ECE | Written/ viva-voce/ Open book test | F&S | III | Kaya chikitsa |
| CO6 | Demonstrate the superficial and deep reflexes and its clinical importance | Cognitive /application Psychomotor /perception Affective /responding | DK | shows | Lecture + Demonstration though living object/ ECE/ PBL/ SDL/ CBL | Viva-Voce/ Practical performance | F&S | III | Kayachi kitsa |

| CO6 | Recall the general anatomical consideration of ANS | Cognitive/ Recall | МК | Knows | Lecture/ SDL | Written | F&S | III | |
|---------|--|----------------------------------|-------------|-----------------|-----------------------------------|--|-------|-----|--|
| CO6 | Describe the cranial and spinal nerves along with formation of nerve plexuses and applied anatomy | Cognitive / Application | DK | Knows how | Lecture/ PBL/ ECE/ SDL | Written / viva-voce/ Assignment | F &S | III | |
| CO6 | Describe the Formation and circulation of cerebro- spinal fluid | Cognitive/ comprehensi on | MK | Knows how | Lecture | Written / viva-voce | F&S | III | |
| Topic 1 | 14- Endocrinology [Time: Lectur | re: 08 hours, nor | n-lecture (| 03 hours] Pract | ical- 02 hours | | | | |
| CO 6 | Define Endocrine Glands and enlist them | Cognitive/ Recall | МК | Knows | Lecture | Written / viva-voce | F & S | III | |
| CO 6 | Describe Structure and Functions of Endocrine Glands | Cognitive-/ Comprehensi on | МК | Knows | Lecture | Written / viva-voce | F & S | III | |
| CO 6 | State the location, Dimension & Shape of Pituitary | Cognitive/ Recall | MK | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | III | |
| CO 6 | Describe the Parts & subdivisions of Pituitary | Cognitive / comprehensi on | MK | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | III | |
| CO 6 | Describe the Blood Supply, Nerve Supply & Lymphatic drainage of Pituitary | Cognitive /comprehensi on | MK | Knows | Lecture/ Demonstration/ CBL | Written / viva-voce | F & S | III | |
| CO 6 | Enlist the hormones secreted by Pituitary, & histology and discuss its clinical anatomy. | Cognitive/ Application | МК | Knows | Lecture/ Demonstration/ GD | Written / viva-voce/ Open book test | F & S | III | |
| CO 6 | State the location, Dimension & Shape of Thyroid gland | Cognitive/Re call | MK | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | III | |
| CO 6 | Describe the lobes, border & surfaces of Thyroid gland with its relation. | Cognitive /comprehensi on | МК | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | III | |
| CO 6 | Describe the blood supply, nerve Supply & lymphatic drainage of Thyroid gland | Cognitive /comprehensi on | МК | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | III | |

| CO 6 | List the Hormones secreted by Thyroid gland and & histology, and discuss its clinical application | Cognitive - Application | МК | Knows | Lecture/ GD/ CBL | Written / viva-voce/ Open book test | F & S | III | |
|---------|--|---------------------------------|----------|---------------|---------------------------|--|-------|-----|------------------|
| CO 6 | Describe the location, Shape, Dimensions and structure of Parathyroid gland | Cognitive /comprehensi on | MK | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | III | |
| CO 6 | Describe the Blood Supply, Nerve Supply & Lymphatic drainage of Parathyroid gland | Cognitive /comprehensi on | DK | Knows | Lecture Demonstration | Written / viva-voce | F & S | III | |
| CO 6 | List the hormones secreted by parathyroid, & histology and discuss its Clinical anatomy | Cognitive /Application | DK | Knows | Lecture/ GD/ CBL | Written / viva-voce/ Open book test | F & S | III | Kayachik itsa |
| CO 6 | State the location, Shape & dimension of Suprarenal gland | Cognitive / Recall | МК | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | III | |
| CO 6 | Describe the Surface, Borders of Suprarenal gland along with its relation. | Cognitive/co mprehension | МК | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | III | |
| CO 6 | List the Functions and Secretions of Suprarenal gland | Cognitive /Recall | MK | Knows | Lecture | Written / viva-voce | F & S | III | Sharir Kriya |
| CO 6 | Describe the Blood Supply, Nerve Supply & Lymphatic drainage of Suprarenal gland | Cognitive /comprehensi on | DK | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | III | |
| CO 6 | Describe the Internal structure of suprarenal gland | Cognitive /comprehensi on | DK | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | III | |
| CO 6 | Write the Clinical & applied anatomy & histology of Suprarenal gland | Cognitive /application | DK | Knows | Lecture/ CBL | Written / viva-voce/ Open book test | F & S | III | Kayachik itsa |
| Topic 7 | 7- Lymphatic System [Time: Le | cture: 02 hours, | non-lect | ure 02 hours] | | | | | L |

| CO 6 | Define Lymphatic System | Cognitive / Recall | MK | Knows | Lecture | Written / viva-voce | F & S | III | |
|---------|--|--|------------|------------------|--|--|-------|-----|---------------------------------------|
| CO 6 | Describe components of Lymphatic System | Cognitive / comprehensi on | MK | Knows | Lecture | Written / viva-voce | F & S | III | |
| CO 6 | Describe the anatomical structure of Various Lymph Vessels i.e. Lymphatic Trunks, Thoracic Duct etc and explain its clinical importance | Cognitive / comprehensi on, Application | МК | Knows how | Lecture/ Demonstration/ CBL | Written / viva-voce | F & S | Ш | |
| CO 6 | Describe the anatomical structure of Lymph Glands i.e. Lymph Nodes, Spleen, Thymus, Tonsils etc and explain its clinical importance | Cognitive / comprehensi on, Application | МК | Knows how | Lecture/ Demonstration/ ECE/ CBL | Written / viva-voce/ Open book test | F & S | III | Rognidan Evum Vikriti Vigyan |
| Paper | II | | | | | | | | |
| Topic 1 | I- Praman sharir [Time: Lectu | re: 02 hours, no | n-lecture | 01 hours] | | | | | |
| CO1 | Describe Anguli and Anjali praman with its significance. | Cognitive Comprehensi on | МК | Knows | Lecture/ Demonstration/ GD | Written/ Viva-voce/ Open book test | F & S | II | |
| Topic 2 | 2- Koshtha Evam Ashaya Shaa | rira [Time: Lect | ure: 02 ho | ours, non-lectur | re 01 hours] | | | | |
| CO1 | Define of Koshtha and Ashaya | Cognitive/ knowledge | МК | Knows | Lecture | Written/ viva-voce/ Open book test | F&S | Ι | |
| CO1 | Describe the concept of various numbers of Koshthanga as per Samhitas | Cognitive/ Comprehensi ve | МК | Knows | Lecture | Written/ viva-voce/ Open book test | F&S | Ι | |
| CO1 | Describe the concept of various Numbers of Ashaya as per Samhitas | Cognitive/ Comprehensi ve | МК | Knows | Lecture/ TT/ GD | Written/ viva-voce/ | F&S | Ι | |

| | | | | | | Open book test | | | |
|---------|---|--|-----------|--------------|-------------------------------|--|-------|----|------------------|
| CO1 | Describe and explain applied aspects of Koshtha and Ashaya. | Cognitive/ Comprehensi ve application | NK | Knows How | Lecture/ GD/ ECE | Written/ viva-voce/ Assignments/ Open book test | F&S | I | Kayacki tsa |
| Topic 3 | - Sira sharir [Time: Lecture: 03 | hours, non-lect | ure 01 ho | urs] | | | | | |
| CO 4 | Define Sira, Enumerate the sira & state its Nirukti | Cognitive /Recall | МК | Knows | Lecture/ Seminar | Written / viva-voce/ Open book test | F & S | II | |
| CO 4 | Explain the classification of Sira | Cognitive / Comprehensi on | МК | Knows how | Lecture | Written / viva-voce/ Open book test | F & S | II | |
| CO 4 | Define Vedhya Sira and Enumerate Vedhya Sira | Cognitive /Recall | МК | Knows | Lecture/ GD | viva-voce/ Open book test | F & S | II | |
| CO 4 | Define Avedhya sira and Enumerate the Avedhya Sira | Cognitive / Recall | МК | Knows | Lecture | Written / viva-voce/ Open book test | F & S | Π | |
| CO 4 | Locate the Vedhya Sira in the body according to region | Cognitive / application Psychomotor | МК | Shows | Lecture/ Demonstration/ IT | viva-voce/ Practical performance | F & S | II | Shalyatan tra |
| CO 4 | Describe the applied aspect of Siravedha | Cognitive - application | DK | Knows how | Lecture/ ECE/ IT/ CBL | Written / viva-voce/ Assignment / Open book test | F & S | п | Shalyatan tra |
| Topic 4 | - Dhamani Sharir [Time: Lectu | re: 02 hours, no | n-lecture | 01 hours] | | | | | |
| CO 4 | Define Dhamani, and state its Nirukti | Cognitive/ Recall | МК | Knows | Lecture/ Seminar | Written / viva-voce/ Open book test | F & S | II | |

| CO 4 | Explain the classification of Dhamani | Cognitive/ Comprehensi on | МК | Knows how | Lecture/ Seminar | Written / viva-voce/ Open book test | F & S | Π | |
|---------|--|--|-----------|------------------|-----------------------------------|---|-------|-----|--------------------------------------|
| CO 4 | Locate the Dhamani in the body according to region | Cognitive / application Psychomotor | DK | Shows | Lecture/ Demonstration | Viva-voce/ Practical performance | F & S | Π | |
| Topic 5 | 5- Srotasa Sharir [Time: Lecture | e: 08 hours, non- | lecture 0 | 3 hours] | | | | | |
| CO 4 | Define Srotasa and state its Nirukti and types | Cognitive/ Recall | МК | Knows | Lecture/ Seminar | Written / viva-voce/ Open book test | F & S | Π | |
| CO 4 | Explain the Classification of Srotasa | Cognitive / Comprehensi on | МК | Knows | Lecture/ Seminar | Written / viva-voce/ Open book test | F & S | II | |
| CO 4 | State the Moolsthana of all Srotasa as per Acharya Sushrut and Charak and its clinical aspect | Cognitive / Recall | МК | Knows how | Lecture/ Seminar/ ECE | Written / viva-voce/ Assignment/ Open book test | F & S | II | Kayachi kitsa/ Panchak arma |
| Topic 6 | 6- Kala Sharir [Time: Lecture:0 | 2 hours, non-lect | ure 02 h | ours] Practical- | 03 hours | | | | |
| CO1 | Define Kala and explain the formation & functions of seven Kala | Cognitive –/ comprehensi on | МК | Knows | Lecture/ Seminar | Written / viva-voce/ Open book test | F&S | III | |
| CO1 | Describe Saptakalas with its applied aspect | Cognitive /comprehensi on +application | МК | Knows | Lecture/ demonstration/ ECE | Written / viva-voce/ Open book test | F&S | III | Agadtantr a |
| CO1 | Relate the Sapta Kala with Sapta Dhatu | Cognitive – application + affective - awareness | NK | Knows how | Lecture/ Seminar/ IT | Written / viva-voce | F&S | III | |

| CO 7 | Define Indriya. Interpret derivation of Indriya and explain its importance. | Cognitive / comprehensi on | МК | Knows | Lecture/ Seminar | Written / viva-voce/ Open book test | F & S | III | |
|---------|---|----------------------------------|------------|----------------|--|---|-------|-----|--------------------------------|
| CO 7 | State the meaning of Indriya- artha and Indriya- adhishthan | Cognitive / knowledge | МК | Knows | Lecture/ Seminar | Written / viva-voce/ Open book test | F & S | III | |
| CO 7 | Enlist Dnyanendriyas, Karmendriyas and Ubhayendriya | Cognitive / knowledge | МК | Knows | Lecture/ Seminar | Written / viva-voce/ Open book test | F & S | III | |
| CO 7 | Illustrate classical description of Dnyanendriya Adhishthan – Karna, Twak, Netra, Jivha, Nasa with its clinical perspective | Cognitive / application | МК | Knows how | Lecture/ IT/ ECE/ PBL | Written / viva-voce/ Open book test/ Assignment | F & S | ш | Dept. of Shalaky atantra |
| Topic 8 | - Twacha Sharir [Time: Lecture | e: 02 hours, non- | -lecture 0 | 2 hours] | | | | | |
| CO 7 | DefineTwacha, its types and characteristics with its clinical importance, significance of twacha adhisthana in disease manifestation, its relation with dhatu | Cognitive/ comprehensi on | МК | Knows how | Lecture with demonstration with 3D animated video/ ECE/ SDL | Written/ Viva -voce/ Open book test | F&S | Ш | |
| Topic 9 | - Marma Sharir [Time: Lecture | e: 13 hours, non- | lecture 04 | hours] Practio | cal- 12 hours | | · | | |
| CO 5 | Define Marma and enumerate the Marmas | Cognitive – Recall | МК | Knows | Lecture/ Seminar | Written / viva-voce/ Open book test | F&S | II | |
| CO 5 | Describe the Marma and Prana tatva with its Significance | Cognitive – Comprehensi on | МК | Knows | Lecture | Written / viva-voce/ Open book test | F&S | II | |

| CO 5 | Discuss the classification of Marma | Cognitive – Comprehensi on | МК | Knows | Lecture/ ECE/ PBL | Written / viva-voce/ Open book test | F&S | II | |
|---------|---|---|-----------|------------------|--|--|-------|----|------------------|
| CO 5 | Narrate the importance of marma in Sharir and Shalya vigyan | Cognitive – application | МК | Knows how | Lecture/ ECE/ PBL | Written/ Open book test | F&S | II | Shalyat antra |
| CO 5 | Illustrate the specific location of Marma as per Sushruta Samhita | Cognitive – Comprehensi on | МК | Knows + Shows | Lecture/ Demonstration/ Workshop | Written / viva-voce/ Open book test | F&S | II | |
| CO 5 | Demonstrate the Marma location as per modern anatomy | Cognitive – Application Psychomotor | МК | Knows + Shows | Lecture with 3D animated demonstration/ Seminar/ Workshop | Viva-voce/ Practical performance | F&S | II | Panchaka rma |
| Topic 1 | 10- Respiratory system [Time: I | Lecture: 06 hour | s, non-le | cture 04 hours] | Practical- 10 hours | | | | |
| CO6 | Enlist the parts of the Bronchial tree | Cognitive / Recall | MK | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | II | |
| CO6 | State the location and dimension of Lungs | Cognitive - Knowledge | МК | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | II | |
| CO6 | Differentiate between Right and left Lungs | Cognitive -/ comprehensi on | МК | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | II | |
| CO6 | Describe the Borders, Surfaces and lobes of the Lungs | Cognitive/ comprehensi on | МК | Knows | Lecture/ Demonstration | Written / viva-voce/ Open book test | F & S | II | |
| CO6 | Explain the root of Lungs | Cognitive /comprehensi on | МК | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | II | |
| CO6 | Explain the Bronchopulmonary segments of the lungs | Cognitive /comprehensi on | DK | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | II | |
| CO6 | Describe the Blood supply, Nerve supply, Lymphatics of the Lungs | Cognitive /comprehensi on | МК | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | II | |

| CO6 | Describe histology and Clinical Anatomy of Lungs | Cognitive / application | МК | Knows how | Lecture/ ECE/ PBL | Written / viva-voce/ Assignment | F & S | II | Kaychik ita |
|-----|---|-----------------------------------|----|-----------|---------------------------|--|-------|----|--------------------|
| CO6 | State the extent and features of Trachea | Cognitive / Recall | МК | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | II | |
| CO6 | Explain the Relations of Trachea | Cognitive – /comprehensi on | МК | Knows how | Lecture/ Demonstration | Written / viva-voce/ Open book test | F & S | II | |
| CO6 | Describe the Blood supply, Nerve supply and Lymphatics of Trachea | Cognitive /comprehensi on | МК | Knows how | Lecture/ Demonstration | Written / viva-voce | F & S | II | |
| CO6 | Explain the histology and Clinical anatomy of Trachea | Cognitive /Application | МК | Knows how | Lecture/ ECE/ PBL | Written / viva-voce/ Assignment | F & S | II | Shalaky atantra |
| CO6 | State the extent of Larynx and its external features | Cognitive / Recall | MK | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | II | |
| CO6 | Enlist the paired and unpaired cartilages of Larynx | Cognitive / Recall | МК | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | II | |
| CO6 | Explain the relations of Larynx | Cognitive /comprehensi on | DK | Knows how | Lecture/ Demonstration | Written / viva-voce/ Open book test | F & S | II | |
| CO6 | Write the blood supply, nerve supply and lymphatics of Larynx | Cognitive /comprehensi on | DK | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | II | |
| CO6 | Explain the histology and clinical anatomy of Larynx | Cognitive / application | DK | Knows how | Lecture/ Demonstration | Written / viva-voce/ Assignment | F & S | II | |
| CO6 | State the location of Pleura and enlist its parts | Cognitive/ Recall | MK | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | II | |
| CO6 | Describe the parts of parietal Pleura | Cognitive/ comprehensi on | МК | Knows | Lecture/ Demonstration | Written / viva-voce | F & S | II | |
| CO6 | Explain the Pulmonary ligaments and recesses of Pleura | Cognitive /comprehensi on | МК | Knows | Lecture/ Demonstration | Written / viva-voce/ | F & S | II | |

| | | | | | | Open book test | | | |
|---------|---|---------------------------------|------------|-----------------|--|--|-------|----|------------------|
| CO6 | Describe the blood supply, nerve supply, lymphatics of Pleura | Cognitive /comprehensi on | DK | Knows how | Lecture | Written / viva-voce | F & S | II | |
| CO6 | Explain the clinical anatomy of Pleura | Cognitive – Application | DK | Knows how | Lecture/ ECE/ PBL | Written / viva-voce/ Assignment | F & S | II | Kayachi kitsa |
| Topic 1 | 11- Digestive system [Time: Le | ecture: 10 hours | , non-lect | ure 06 hours] H | Practical- 22 hours | | | | |
| CO 6 | Describe peritoneum and nine parts of abdomen | Cognitive – application | МК | Knows | Lecture/ Demonstration | Written/ Viva-voce/ Open book test/ Assignment | F & S | Ι | |
| CO 6 | Describe the anatomy of the Oesophagus with relations, histology and clinical anatomy | Cognitive – application | МК | Knows | Lecture/ Demonstration | Written/ Viva-voce/ Open book test/ Assignment | F & S | Ι | |
| CO 6 | Describe the structure of the Stomach, Stomach bed, the interior, histology, blood supply with relations and clinical anatomy | Cognitive – application | МК | Knows | Lecture/ Demonstration/ PBL/ ECE/ IT | Written/ Viva-voce/ Open book test/ Assignment | F & S | Ι | |
| CO 6 | Describe the structure of the Duodenum with relations, histology and clinical anatomy. | Cognitive – application | МК | Knows | Lecture/ Demonstration/ ECE/ PBL/ IT | Written/ Viva-voce/ Open book test/ Assignment | F & S | Ι | |
| CO 6 | Describe the parts, structure, histology and clinical anatomy of Large intestine. | Cognitive – application | МК | Knows how | Lecture/ Demonstration | Written/ Viva-voce/ Open book test/ Assignment | F & S | I | |
| CO 6 | Describe the anatomy of the Rectum, Peritoneal & | Cognitive – application | MK | Knows how | Lecture/ | Written/ | F & S | Ι | |

| | visceral relations and applied anatomy of the Rectum. | | | | Demonstration/ ECE/ PBL/ IT | Viva-voce/ Open book test/ Assignment | | | |
|---------|---|----------------------------|------------|----------------|--|--|-------|----|--|
| CO 6 | Describe the anatomy and musculature of the anal canal, histology with its blood supply, venous drainage and applied anatomy | Cognitive – application | МК | Knows how | Lecture/ Demonstration | Written/ Viva-voce/ Open book test/ Assignment | F & S | I | |
| CO 6 | Describe the structure of the Pancreas, Pancreatic ducts, applied anatomy, along with histology of endocrine & exocrine part. | Cognitive – application | MK | Knows how | Lecture/ Demonstration/ ECE/ PBL/ IT | Written/ Viva-voce/ Open book test/ Assignment | F & S | I | |
| CO 6 | Describe external features, anatomy histology and clinical anatomy of Liver | Cognitive – application | MK | Knows how | Lecture/ Demonstration/ ECE/ PBL/ IT | Written/ Viva-voce/ Open book test/ Assignment | F & S | I | |
| CO 6 | Describe the structure, peritoneal & visceral relations histology and applied anatomy of the Spleen. | Cognitive – application | МК | Knows how | Lecture/ Demonstration/ ECE/ PBL/ IT | Written/ Viva-voce/ Open book test/ Assignment | F & S | Ι | |
| CO 6 | Enlist the salivary glands and describe the anatomy of Parotid gland, Submandibular gland and Sublingual gland with its & Clinical anatomy | Cognitive – application | DK | Knows how | Lecture/ Demonstration | Written/ Viva-voce/ Open book test/ Assignment | F & S | Ι | |
| Topic 1 | 12- Cardiovascular System [Tin | ne: Lecture: 08 h | nours, non | lecture 03 hou | urs] | | | | |
| CO 6 | Describe pericardium with its clinical anatomy | Cognitive – application | МК | Knows how | Lecture/ Demonstration | Written/ Viva-voce | F & S | II | |
| CO 6 | Describe external features of the Heart. | Cognitive – recall | МК | Knows | Lecture/ Demonstration | Written/ | F & S | II | |

| | | | | | | Viva-voce/ Open book test/ Assignment | | | |
|---------|--|---|-----------|------------------|--|---|-------|----|--|
| CO 6 | Describe internal features of the chambers, valve and auscultatory areas of Heart and its applied anatomy | Cognitive – application | МК | Knows how | Lecture/ Demonstration/ ECE/ PBL/ IT | Written/ Viva-voce/ Open book test/ Assignment | F & S | II | |
| CO 6 | Describe the major arteries and veins of Heart. | Cognitive – Recall | MK | Knows | Lecture/ Demonstration | Written/ Viva-voce | F & S | II | |
| CO 6 | Describe the histology and applied anatomy of Heart. | Cognitive – application | МК | Knows how | Lecture/ Demonstration/ ECE/ PBL/ IT | Written/ Viva-voce/ Open book test/ Assignment | F & S | II | |
| Topic 1 | 3- Urinary System [Time: Lect | ure: 08 hours, n | on-lectur | re 03 hours] Pra | ctical- 04 hours | | | | |
| CO 6 | Enlist the components of Urinary System | Cognitive / Recall | MK | Knows | Lecture | Written / viva-voce | F & S | II | |
| CO 6 | Describe the anatomical structure of Kidney, Ureter, Urinary bladder, Urethra | Cognitive / Comprehensi on | МК | Knows | Lecture/ Demonstration | Written / viva-voce/ Open book test/ Assignment | F & S | II | Kayachik itsa /Panchkai ma/Shala ya-Tantra |
| CO 6 | Explain histology and clinical anatomy of Kidney, Ureter, Urinary bladder, Urethra and its importance | Cognitive / Comprehensi on & Application | МК | Knows how | Lecture/ Demonstration/ ECE/ PBL/ IT | Written / viva-voce/ Open book test/ Assignment | F & S | II | |
| CO 6 | Enlist developmental anomalies of Kidney, Ureter, Urinary bladder, Urethra | Cognitive / Recall | NK | Knows | Lecture | Written / viva-voce/ Open book test/ Assignment | F & S | II | |

| CO 6 | Enlist the anatomical structures of male reproductive system and discuss its Ayurved Sharir | Cognitive / Comprehensi on | МК | knows how | Lecture | Written / viva-voce/ Open book test | F & S | III | |
|---------|---|----------------------------------|-----------|-----------|--|---|-------|-----|--|
| CO 6 | Describe the male reproductive organs – Testes, Scrotum, Epididymis, Ductus deference, Ejaculatory duct, penis, Spermatic cord with histology and applied aspect | Cognitive / application | МК | knows how | Lecture | Written / viva-voce/ Open book test | F & S | III | |
| CO 6 | Enlist the anatomical structures of female reproductive system and discuss its Ayurved Sharir. | Cognitive / Comprehensi on | МК | knows how | Lecture/ Seminar | Written / viva-voce/ Open book test | F & S | III | |
| CO 6 | Describe external female reproductive organs | Cognitive / Comprehensi on | МК | knows | Lecture/ Seminar | Written / viva-voce | F & S | III | |
| CO 6 | Explain Internal reproductive organs in detail with histology and its applied anatomy (Uterus, Fallopian tube, Cervix, Vagina, Ovary) | Cognitive / application | МК | knows how | Lecture/ ECE/ PBL/ IT | Written / viva-voce/ Open book test/ Assignment | F & S | III | |
| CO 6 | Explain histology of Uterus, Fallopian tube, Cervix, Vagina, Ovary | Cognitive / application | DK | knows how | Lecture/ Demonstration | Written / viva-voce/ Open book test/ Assignment | F & S | III | |
| Topic 1 | 15- Sensory organ [Time: Lectur | e: 14 hours, non | lecture (|)5 hours] | | | | | |
| C07 | Explain five sensory receptors, hierarchy of development of five senses and need of five senses | Cognitive - comprehensi on | МК | Knows how | Lecture with 3D animated demonstration | Written / viva-voce/ Open book test/ Assignment | F&S | III | |
| CO7 | Describe structural aspect of five sensory organ | Cognitive – comprehensi on | МК | Knows | Lecture | Written / viva-voce/ Open book | F&S | III | |

| | | | | | | test/ Assignment | | | |
|-----|--|---|----|------------------|---|---|-----|-----|---|
| CO7 | Describe the pathways of each sense in understanding of its functional anatomy | Cognitive - comprehensi on | NK | Knows how | Lecture with 3D animated demonstration/ ECE/ PBL/ IT | Written / viva-voce/ Open book test/ Assignment | F&S | III | |
| CO7 | Determine Method of examination, tool of examination and Importance of sensory organ in systemic examination | Cognitive - comprehensi on + Psychomotor | DK | Knows + Shows | Lecture with practical demonstration of tools/ ECE/ PBL/ IT | Written / viva-voce/ Open book test/ Assignment | F&S | III | Shalakya dept. Kaya chikitsa dept |

*MK-Must Know, DK- Desirable to Know, NK- Nice to Know, TT- Tutorial, GD- Group Discussion, PBL- Problem Based Learning, IT- Integrated Teaching, ECE- Early Clinical Exposure, SDL- Self Directed Learning, CBL- Case Base Learning (P)-Practical

List of Practicals AyUG-RS Marks: 200 Hours: 240

| SN | Name of Practical | Term | Hours |
|----|---|------|-------|
| P1 | Branches of anatomy. History of Anatomy | Ι | 2 |
| | • Ethics in dissection hall | 1 | 2 |
| P2 | Anatomical Terminologies | | |
| | Anatomical position, Planes, and explanation of anatomical terms related to skin, | Ι | 4 |
| | fasciae, bones, joints and their movements, muscles, ligaments, tendons, blood | 1 | 4 |
| | vessels, nerves. | | |
| P3 | Preservation methods of the cadaver, Mrut sharir Samshodhan | | |
| | • Different methods of preservation techniques. | Ι | 2 |
| | Brief introduction of chemical composition of preservative fluid. | | |
| P4 | Introduction of Anatomy Act and Brief detailing about Bio medical waste management act 1960 | Ι | 2 |
| P5 | Shava vichhedana – detailed dissection of the whole body | | |
| | • Line of incision | | |
| | Dissection technique | Ι | 32 |
| | • Identification of different tools and its Uses | | |
| | • Identification and characteristics of Different layers and its relation | | |
| | In Extremities: Dissection of extremities & Identification of related structures | II | 40 |
| | In Trunk region: Demonstration of visceral relation of thoracic, abdominal and pelvic organ | II | 38 |
| | In Head Region: Dissection of head, | | |
| | Identification of Meninges, Major Sulci and gyri, Superficial origin of Cranial Nerve and and | III | 14 |
| | venous Sinus. | | |
| | Dissection of sensory organs | III | 22 |
| P6 | Practical study of vital organs, Histological slides | | 0.6 |
| | • Identification of external features of thoracic, abdominal and pelvic viscera | II | 06 |
| P7 | Practical study of bones | Ι | 36 |

| | Identification of external features of bones and different attachment | | |
|-----|--|-----|----|
| | Surface and Radiological anatomy | | |
| | In Radiology Anatomy: Characteristics of radio imaging film and detailing about its color | | |
| | contrasting | | |
| | Identification of Normal alignment of bodily structure – X ray film | | |
| | a. Chest X Ray – A.P And P.A view | III | 22 |
| | b. Detailing of A.P view of Shoulder joint, Elbow Joint, Wrist joint, Hip joint, knee joint, Ankle joint. | | |
| | c. Identification of basic clinical finding through X ray film related to long bones and | | |
| | joints | | |
| P8 | In Surface Anatomy Section: | | |
| | Identification of Underlying viscera of Nine region based upon Cadaveric and Living | III | 6 |
| | Anatomy | | 0 |
| | Surface marking of thoracic, abdominal and pelvic viscera | | |
| P9 | Practical study of Marma | III | 12 |
| | Surface markings of all Marma points and its anatomical demarcation. | 111 | 12 |
| P10 | Brief detailing about body donation, organ donation and its awareness | III | 2 |
| | (Communication skills) | 111 | 2 |

*Note: one practical should not be less than 2 hrs.

Table 4: Learning objectives (Practical) of AyUG- RS

| A4 Course outcome | B4 Learning Objective (At the end of the session, the students should be able to) - Definition and branche | C4 Domain/s ub | D4 Must to know/ desirabl e to know/N ice to know y History | E4 Level Does/ Shows how/ Knows how/ Know | F4 T-L method | G4 Assessment | H4 Form ative /sum mativ e | I4 Te rm | J4 Integration |
|-------------------------|---|--|---|--|---|---|---|----------------|-------------------|
| CO1 | Define and describe branches of anatomy and its history | Cognitive / knowledge / recall | MK | Know | Lecture/ Tutorial | Written +viva-voce | F&S | I | |
| CO9 | Practice of ethics in the context of human dissection | Cognitive / knowledge / recall/ Affective/ psychomot or | МК | Knows Shows | Tutorial/ Demonstration | viva-voce | F&S | Ι | |
| Practical 2 | - Anatomical Terminolo | gies [Time: I | Practical-2 | hours and ot | her activity 2 hour | rs] | | | 1 |
| CO1 | Demonstrate anatomical position, Planes, and explanation of anatomical terms related to skin, fasciae, bones, joints and their movements, muscles, ligaments, tendons, blood vessels, nerves. | Cognitive / knowledge / recall | МК | Knows | Tutorial/ Demonstration/ Simulation | Written +viva-voce/ Open book test/ Assignments | F&S | Ι | |

| Practical | 3- Preservation methods | of the cadav | er, Mrut s | sharir Samsh | odhan [Time: Pra | ctical or other | activity - | 02 hours] | |
|-----------|--|--|------------|----------------------------------|---|--|------------|-----------------|--|
| CO9 | Describe and demonstrate preservation methods | Cognitive / knowledge / recall | МК | Knows, Shows | Tutorial/ Demonstration | Written +viva-voce | F&S | | |
| | of the cadaver and Mrut sharir Samshodhan | | | | | | | I | |
| CO9 | Describe the different methods of preservation techniques and give brief introduction of chemical composition of preservative fluid. | Cognitive / knowledge / recall | МК | Knows | Tutorial/ Demonstration | Written +viva-voce, spotting, OSPE | F&S | Ι | |
| | 4- Introduction of Anator ractical or other activity - 02 | | Brief deta | iling about B | io medical waste | management | act 1960 | | |
| CO9 | Describe and follow the Anatomy Act and Bio medical waste management act 1960 | Cognitive - comprehen sion, Affective/ psychomot or | NK | Knows, know how, Shows | Lecture/ Tutorial/ Demonstration | Written +viva-voce/ Practical performance/ Public awareness | F&S | I | |
| Practical | l 5- Shava vichhedana – de | etailed dissec | tion of th | e whole body | [Time: Practical- | 126 hours and | other act | ivity 20 hours] | |
| CO9 | Demonstrate the line of incision, dissection technique, different tools and their uses | Cognitive / knowledge / recall | МК | Knows/ Shows/ Shows How | Tutorial/ Demonstration / Cadaveric dissection | Written +viva-voce, spotting, OSPE | F&S | I | |
| CO9 | Identify and characteristics of Different layers and its relation | Cognitive / knowledge / recall | DK | Knows | Tutorial/ Demonstration / Simulations / | Written +viva-voce, spotting, OSPE | F&S | Ι | |

| | demonstrate the | comprehen sion + | | Shows | | +viva-voce, spotting, | | II | |
|-------------|---|--------------------------------------|-------------|-----------------|--|--|----------|--------------|---------------|
| CO6 | Describe and | Cognitive - | MK | Knows | Demonstration | Written | F&S | | |
| CO6 | Focus the histological slides of identified organs | Cognitive / knowledge / recall | DK | Knows | Tutorial/ Demonstration | Written +viva-voce spotting, OSPE | F&S | П | |
| [Time: Prac | ctical- 04 hours and other | activity 02 h | ours] | | _ | | | | |
| Practical 6 | 5- Practical study of vital | organs, Hist | tological s | lides and ide | entification of exte | | of thora | cic and abdo | minal viscera |
| | | or | | | dissection | Practical performance | | | |
| | sensory organs | sion + psychomot | | | Cadaveric | spotting, OSPE/ | | III | |
| CO6 | Describe, dissect and demonstrate the | Cognitive - comprehen | MK | Knows, Shows | Demonstration / Simulations/ | Written +viva-voce, | F&S | | |
| | nerve and meninges and venous sinus. | | | | | | | | |
| | of brain, major sulci and gyri, superficial origin of cranial | or | | | uissection | Practical performance | III | III | |
| | identification of parts | sion + psychomot | | | Cadaveric dissection | spotting, OSPE/ | | | |
| CO6 | Describe and demonstrate surface | Cognitive - comprehen | MK | Knows, Shows | Demonstration / Simulations/ | Written +viva-voce, | F&S | | |
| CO6 | thoracic and abdominal organ | or | | | | Practical performance | | | |
| | visceral relation of | sion + psychomot | | | Cadaveric dissection | spotting, OSPE/ | | II | |
| CO6 | Describe and demonstrate the | Cognitive - comprehen | DK | Knows, Shows | Demonstration / Simulations / | Written +viva-voce, | F&S | | |
| | demonstrate muscles of extremities and its related structures | knowledge / recall | | Shows | Demonstration / Cadaveric dissection | +viva-voce | | п | |
| CO9 | Identify and | Cognitive / | DK | Knows, | dissection Tutorial/ | Written | F&S | | |
| | | | | | Cadaveric dissection | | | | |

| | external features of thoracic and abdominal viscera | psychomot or | | | | OSPE/ Practical performance | | | |
|-----------|--|---|--------------|-----------------|---|--|--------------|-----|------------------------------|
| Practical | 7- Practical study of bone | es [Time: Pra | ctical- 30 l | nours or other | r activity 06 hours | | | | |
| CO3 | Describe and demonstrate external features of bones and muscle attachments | Cognitive - comprehen sion + psychomot or | МК | Knows, Shows | Demonstration / Simulations | Written +viva-voce, spotting, OSPE/ Practical performance | F&S | Ι | |
| CO10 | Describe the characteristics of radio imaging film and difference in color contrasting | Cognitive / knowledge / recall | DK | Knows | Tutorial/ Demonstration / Simulations | Written +viva-voce spotting, OSPE | F&S | Ι | |
| | 8- Surface and Radiologi | | - | | | - | F 0.0 | | 1 |
| CO10 | Describe and demonstrate the normal alignment of chest X Ray – A.P And P.A view | Cognitive - comprehen sion + psychomot or | МК | Knows, Shows | Tutorial/ Demonstration | Written +viva-voce, spotting, OSPE/ Practical performance | F&S | Ш | |
| CO10 | Describe and demonstrate the normal alignment of A.P view of Shoulder joint, Elbow Joint, Wrist joint, Hip joint, knee joint, Ankle joint | Cognitive - comprehen sion + psychomot or | МК | Knows, Shows | Tutorial/ Demonstration | Written +viva-voce, spotting, OSPE/ Practical performance | F&S | III | |
| CO10 | Identify the basic clinical finding through X ray film | Cognitive - comprehen sion + | NK | Knows, Shows | Tutorial/ Demonstration | Written +viva-voce, spotting, OSPE/ | F&S | III | Kaychikitas, Shalyatantra |

| | related to long bones and joints | Psychomot or | | | | Practical performance | | | |
|--------------|--|---|-------------|------------------------------|---|--|-------|-----|---|
| CO8 | Describe and demonstrate underlying viscera of Nine region based upon cadaveric and Living Anatomy | Cognitive - comprehen sion + psychomot or | DK | Knows, Shows | Tutorial/ Demonstration | Written +viva-voce, spotting, OSPE/ Practical performance | F&S | III | |
| CO8 | Describe and demonstrate surface marking of thoracic and abdominal viscera | Cognitive - comprehen sion + psychomot or | DK | Knows, Shows | Tutorial/ Demonstration | Written +viva-voce, spotting, OSPE/ Practical performance | F&S | III | |
| Practical 9- | · Practical study of Mar | ma [Time: P | ractical or | other activity | - 12 hours] | · • | | | |
| CO5, CO8 | Describe and demonstrate surface markings of Marma points and its anatomical demarcation of all Marma as per Shadang sharir | Cognitive - comprehen sion + psychomot or | МК | Knows + Shows | Tutorial/ Demonstration / Cadaveric dissection | Written +viva-voce, spotting, OSPE/ Practical performance | F&S | III | Panchakarma |
| Practical 1 | 0- Body donation, organ | donation a | nd its awa | reness [Time | : Practical or other | r activity - 02 h | ours] | | |
| CO9 | Describe body donation and organ donation process with respect to specific organ and its | Affective/ psychomot or | DK | Knows, know how, Shows | Tutorial/ Demonstration | Written +viva-voce/ Public awareness/ social work | F&S | III | Shalyatantra and Shalakyatan tra |
| | awareness Demonstrate process of communication | Psychomot oe | МК | | Role Play | | | III | |

| process in awareness | | | | |
|----------------------|--|--|--|--|
| speech or cousellinf | | | | |
| for Body donation. | | | | |

| 1 | List non lecture Teaching-Learning methods | No of Activities (Values in hours) |
|---|---|---------------------------------------|
| a | Seminar / Workshop | 14 |
| b | Tutorial (TT) / Group Discussion (GD) | 14 |
| с | Problem based learning (PBL) | 8 |
| d | Integrated teaching (IT) | 8 |
| e | Early Clinical Exposure (ECE)/ Case Base Learning (CBL) | 18 |
| f | Self-Directed Learning (SDL) / Summary writing | 12 |
| g | Field visit | 6 |
| | | 80 |
| 2 | Practical (refer Table 4) | 240 |
| | Total | 320 |

Table 5: Non-Lecture Activities Course AyUG-RS

Other Educational Activities(Additional):

- Field visit (community/anatomy museum) II & III term
- Practical journal II & III term
- Summary/ Essay writing (Research papers/Samhitas literature review)- II or III term

Table 6: Assessment Summary

6 A - Number of Papers and Marks Distribution

| | Subject Code | | | Pra | Practical/Clinical Assessment | | | | | |
|-------|--------------|--------|--------|------------------------|-------------------------------|-----------|----|--------------|----------------|--|
| S.No. | | Papers | Theory | Practical/ Clinical | Viva | Electives | IA | Sub Total | Grand Total | |
| 1. | AyUG-RS | 2 | 200 | 100 | 70 | - | 30 | 200 | 400 | |
| | | | | | | | | | | |

6 B - Scheme of Assessment (formative and Summative) AyUG-RS

| | DDODECCIONAL | DURATION OF PROFESSIONAL COURSE | | | | | |
|--------|------------------------|---------------------------------|------------------------------|------------------------------|--|--|--|
| SR.NO. | PROFESSIONAL COURSE | First Term (1-6 Months) | Second Term (7-12 Months) | Third Term (13-18 Months) | | | |
| 1 | First | 3 PA & First TT | 3 PA & Second TT | 3 PA & UE | | | |
| | | | | | | | |

PA: Periodical Assessment; TT: Term Test; UE: University Examinations

| | | PERIC | DDICAL A | TERM TEST** | | TERM ESSMENT | | |
|-----------------|------------|--------------|------------|----------------|---------------------|-----------------|------------|--------------------|
| | Α | В | С | D | Ε | F | G | Н |
| TERM | | | | | Converted to | Term Test | Sub | Tom |
| | 1 (15 | 2 (15 | 3 (15 | Average | 30 | (Marks | Total | Term Assessment |
| | Marks) | Marks) | Marks) | (A+B+C/3) | Marks | converted | _/60 | |
| | | | | | (D/15*30) | to 30) | Marks | (/30) |
| FIRST | | | | | | | E+F | (E+F)/2 |
| SECOND | | | | | | | E+F | (E+F)/2 |
| THIRD | | | | | | NIL | | E |
| Final IA | | Avera | ge of Thr | ee Term Asse | ssment Marks a | s Shown in 'I | H' Colum | n. |
| | Maximun | n Marks in | Parenthese | es | | | | |
| | *Select an | n Evaluatio | n Method | which is appro | priate for the obje | ectives of Topi | cs from th | e Table 6 D for |
| | Periodic a | assessment | . Conduct | 15 marks asses | ssment and enter | marks in A, B, | and C. | |
| | ** Condu | ict Theory | (100 Mark | s) [MCQ (20*1 | l Marks), SAQ (8 | *5), LAQ (4*1 | 10)] and P | ractical (100 |
| | Marks) | | | | | | | |
| | Then con | vert to 30 r | narks. | | | | | |

6 C - Calculation Method for Internal assessment Marks (30 Marks) AyUG-RS

6 D - Evaluation Methods for Periodical Assessment

| S. No. | Evaluation Methods for Periodical Assessment |
|--------|--|
| 1. | Practical / Clinical Performance |
| 2. | Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions) |
| 3. | Open Book Test (Problem Based) |
| 4. | Summary Writing (Research Papers/ Samhitas) |
| 5. | Class Presentations; Work Book Maintenance |
| 6. | Problem Based Assignment |
| 7. | Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD) |
| 8. | Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department). |
| 9. | Small Project |
| 10. | Other activities explained in Table 3 Column G3 as per indicated term and objective of the topic. |

6 E - Paper Layout

I PROFESSIONAL BAMS EXAMINATIONS

AyUG-RS

PAPER-1

Time: 3 HoursMaximum Marks: 100INSTRUCTIONS: All questions compulsoryTOTAL MARKS 100

| | | Number of Questions | Marks per question | Total Marks |
|-----|------------------------------------|------------------------|-----------------------|----------------|
| Q 1 | Multiple Choice Questions (MCQ) | 20 | 1 | 20 |
| Q 2 | Short answer questions (SAQ) | 8 | 5 | 40 |
| Q 3 | Long answer questions (LAQ) | 4 | 10 | 40 |
| | | | | 100 |

I PROFESSIONAL BAMS EXAMINATIONS

AyUG-RS

PAPER-1I

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory TOTAL MARKS 100

| | | Number of Questions | Marks per question | Total Marks |
|-----|------------------------------------|------------------------|-----------------------|----------------|
| Q 1 | Multiple Choice Questions (MCQ) | 20 | 1 | 20 |
| Q 2 | Short answer questions (SAQ) | 8 | 5 | 40 |
| Q 3 | Long answer questions (LAQ) | 4 | 10 | 40 |
| | | | | 100 |

| | | | | | D | |
|----|-------------------------------|------|---------------|---------------------|--------------|------------|
| | Donor I | | | Type of Questions | | |
| | Paper I | | | "Yes" can be asked. | | |
| | | | | "No" s | should not b | e asked. |
| | Α | В | С | MCQ | SAQ | LAQ |
| | List of Topics | Term | Marks | (1 Mark) | (5 | (10 Marks) |
| | | | | | Marks) | |
| 1 | Shariropkramaniya Shaarira | Ι | | Yes | Yes | No |
| 2 | Paribhasha Shaarira | Ι | | Yes | Yes | No |
| 3. | Garbha Shaarira | Ι | | Yes | Yes | Yes |
| 4. | Asthi Shaarira | Ι | | Yes | Yes | Yes |
| 5. | Sandhi Shaarira | II | | Yes | Yes | Yes |
| 6. | Snayu sharir | II | | Yes | Yes | No |
| 7. | Peshi Shaarira | II | Refer | Yes | Yes | No |
| 8. | Kesha, Danta, Nakha Sharir | II | Next table | Yes | Yes | No |
| 9 | Embryology | Ι | | Yes | Yes | Yes |
| 10 | Osteology | Ι | | Yes | Yes | Yes |
| 11 | Arthrology. | II | | Yes | Yes | Yes |
| 12 | Myology | II | | Yes | Yes | No |
| 13 | Nervous System. | III | | Yes | Yes | Yes |
| 14 | Endocrinology | III | | Yes | Yes | Yes |
| 15 | Lymphatic system | III | | Yes | No | Yes |

| 6 F – I - | Distribution | of Theory exam | AvUG-RS |
|-----------|--------------|-----------------|---------|
| • | | or incory chain | 1,00 10 |

| | Paper II | | | D Type of Questions "Yes" can be asked. "No" should not be asked. | | |
|----|------------------------------|------|---------------|--|-----------|------------|
| | Α | В | C | MCQ | SAQ | LAQ |
| | List of Topics | Term | Marks | (1 Mark) | (5 Marks) | (10 Marks) |
| 1 | Pramana Shaarira: | II | | Yes | No | No |
| 2 | Koshtha Evam Ashaya Shaarira | Ι | | Yes | Yes | Yes |
| 3. | Sira Sharir | II | | Yes | Yes | Yes |
| 4. | Dhamani Sharir | II | Defer | Yes | Yes | Yes |
| 5. | Strotas Shaarira | II | Refer | Yes | Yes | Yes |
| 6. | Kalaa Shaarira | III | Next Table | Yes | Yes | Yes |
| 7. | Indriya Shaarira | III | Table | Yes | Yes | Yes |
| 8. | Twacha Sharir | III | | Yes | Yes | Yes |
| 9 | Marma Shaarira | II | | Yes | Yes | Yes |
| 10 | Respiratory System | II | | Yes | Yes | Yes |

| 11 | Digestive system | Ι | Yes | Yes | Yes |
|----|-----------------------|-----|-----|-----|-----|
| 12 | Cardiovascular system | II | Yes | Yes | Yes |
| 13 | Urinary System | II | Yes | Yes | Yes |
| 14 | Reproductive system | III | Yes | Yes | Yes |
| 15 | Sensory organs | III | Yes | Yes | Yes |

6 F – II - Theme table

Paper-I:

| aper-1. | | | | | | |
|---------|---|-----------|------------|-------------------|-----------------|-----------|
| Theme* | Topics | Term | Marks | MCQ | SAQ | LAQ |
| а | 1) Shariropakramaniya 2) Paribhasha Sharir | Ι | 10 | YES | YES | NO |
| b | 3) Garbha Sharir9) Embryology | Ι | 20 | YES | YES | YES |
| с | 4) Asthi Sharir10) Osteology | Ι | 16 | YES | YES | YES |
| d | Kesh, Dant, Nakha Sharir Peshi Sharir Myology | II | 11 | YES | YES | NO |
| e | 5) Sandhi Sharir 6) Shayu Sharir 11) Arthrology | Π | 17 | YES | YES | YES |
| f | 13) Nervous System | III | 14 | YES | YES | YES |
| g | 14) Endocrinology 15) Lymphatic | III | 12 | YES | YES | YES |
| *Ther | ne: is group of similar topics in Ayurv | ed Sharir | and Anator | ny. Used in 6G qu | uestion paper b | lue print |

Paper-II

| Theme | Topics | Term | Marks | MCQ | SAQ | LAQ |
|-------|---|------|-------|-----|-----|-----|
| а | 2) Koshta Evam Ashay Sharir11) Digestive system | Ι | 16 | YES | YES | YES |
| b | Praman Sharir Marma Sharir | II | 17 | YES | YES | YES |
| с | 3) Sira Sharir 4) Dhamani Sharir 5) Strotas Sharir 12) Cardiovascular System | Π | 21 | YES | YES | YES |
| d | 10) Respiratory System | II | 10 | YES | YES | YES |
| e | 13) Urinary System | II | 10 | YES | YES | YES |
| f | 14) Reproductive System | III | 6 | YES | YES | NO |
| g | 6) Kala Shair 7) Indriya Sharir 8) Twacha Sharir 15) Sensory organs | III | 20 | YES | YES | YES |

| PAPER-I | В | C |
|----------|---|---|
| A | _ | |
| Question | Type of Question | Question Paper Format |
| Sr. No | | (Refer table 6 F II Theme table for themes) |
| Q1 | Multiple choice Questions | 1. Theme a |
| | (MCQ) | 2. Theme a |
| | | 3. Theme a |
| | 20 Questions | 4. Theme a |
| | | 5. Theme a |
| | 1 mark each | 6. Theme b |
| | | 7. Theme b |
| | All compulsory | 8. Theme b |
| | | 9. Theme b |
| | Must know part: 15 MCQ | 10. Theme b |
| | Desirable to know: 3 MCQ. | 11. Theme c |
| | Nice to know: 2 MCQ | 12. Theme d |
| | | 13. Theme e |
| | | 14. Theme e |
| | | 15. Theme f |
| | | 16. Theme f |
| | | 17. Theme f |
| | | 18. Theme f |
| | | 19. Theme g |
| | | 20. Theme g |
| Q2 | Short answer Questions | 1. Theme a |
| | (SAQ) | 2. Theme b |
| | Eight Questions | 3. Theme c |
| | 5 Marks Each | 4. Theme d |
| | All compulsory | 5. Theme d |
| | Must know part: 7 SAQ | 6. Theme e |
| | Desirable to know: 1 SAQ | 7. Theme g/f |
| | Nice to know: Nil | 8. Theme g/f |
| | nice to know: mi | |
| Q3 | Long answer Questions | |
| | (LAQ) | 1. Theme b |
| | Four Questions | 2. Theme c |
| | 10 marks each | 3. Theme e |
| | All compulsory | 4. Theme f/g |
| | All questions on must know | |
| | No Questions on Nice to know and Desirable to | |
| | know | |
| | | |

6 G Question paper Blue print for AyU-RS: PAPER-I

PAPER-II

| Question Sr. No | | SET |
|-----------------|----------------------------------|---------------|
| Q1 | Multiple choice Questions | 1. Theme a |
| | (MCQ) | 2. Theme b |
| | | 3. Theme b |
| | 20 Questions | 4. Theme c |
| | | 5. Theme c |
| | 1 mark each | 6. Theme c |
| | | 7. Theme c |
| | All compulsory | 8. Theme c |
| | | 9. Theme c |
| | Must know part: 15 MCQ | 10. Theme d/e |
| | Desirable to know: 3 MCQ. | 11. Theme d/e |
| | Nice to know: 2 MCQ | 12. Theme d/e |
| | | 13. Theme e/d |
| | | 14. Theme e/d |
| | | 15. Theme f |
| | | 16. Theme g |
| | | 17. Theme g |
| | | 18. Theme g |
| | | 19. Theme g |
| | | 20. Theme g |
| Q2 | Short answer Questions | 1. Theme a |
| | (SAQ) | 2. Theme b |
| | Eight Questions | 3. Theme c |
| | 5 Marks Each | 4. Theme d/e |
| | All compulsory | 5. Theme e/d |
| | Must know part: 7 SAQ | 6. Theme e/d |
| | Desirable to know: 1 SAQ | 7. Theme f |
| | Nice to know: Nil | 8. Theme g |
| Q3 | Long answer Questions | 1. Theme a |
| | (LAQ) | 2. Theme b |
| | Four Questions | 3. Theme c |
| | 10 marks each | 4. Theme g |
| | All compulsory | |
| | All questions on Must to know | |
| | No Questions on Nice to know | |
| | and Desirable to know | |

6 H - I - Distribution of Practical Exam

Practical 100 Marks + (Viva 70 + IA 30) Marks

| SN | Heads | Marks | |
|-------|---|---|--|
| 1 | Spotting (Refer Table 6 H II below) | 20 | |
| 3 | Kostha Ashay Sharir, Dissected organs and histology slides | 20 | |
| 4 | Ashti, Sandhi, Peshi, Bones and Joints, | 20 | |
| 5 | Marma Sharir, Surface & Radiological anatomy | 20 | |
| 6 | Practical record (15 Marks) and Communication Skill (5 Marks) | 20 | |
| 7 | Viva-Voce (Objective Structured) (Refer table 6 H – III) | 70 | |
| 8 | Internal assessment | 30 | |
| | Total Marks | 200 | |
| | I Practical Spot examination Questions – (20 marks) | | |
| SN | Question | Mark allotment | |
| 1 1 | - Garbha/Sira/Kala Identify the structure & give the Drushtant/ Metaphor related with it. e.g Gunja Phala- Artava, Spatik-Shukra, etc | Identification- 1 Drushtant- 1 | |
| Topic | - Marma | | |
| 1 | Identify the Marma & write its type as per Parinama & Rachana | Identification- 1 Type-1 | |
| 2 | Identify the Marma & write its Pariman & any two anatomical structures related to the Marma | | |
| 3 | Identify the Marma & write its applied aspect | Identification- 1 Viddha-1 | |
| Торіс | - Bones, Muscles | vidunu i | |
| 1 | Identify the bone & write its peculiarities (Any 2) e.g Atlas vertebra | Identification- 0.5 Peculiarities- 1.5 | |
| 2 | Identify the indicated part on the bone & write its attachment (Any 2) e.g., Scapula spine | Identification- 1 Attachment- 1 | |
| 3 | Identify the side of the given bone & write side determination points | Side identification- 0.5 Points- 1.5 | |
| 4 | Identify the side of the given bone & write its applied anatomy (Any 2 points) | Identification-1 Applied -1 | |
| 5 | Write the type of the given bone as per Ayurved & Modern science e.g., Tibia- Nalakasthi, long bone | Ayu. Type- 1 Modern type- 1 | |
| 6 | Identify the indicated muscle on the bone & write whether it originates or inserts there | | |
| 7 | Identify the indicated muscle & write its action (Any 2) | Identification- 1 Action-1 | |
| 8 | Identify the indicated muscle& write its blood supply/nerve supply | Identification-1 | |

| | | Supply-1 |
|-------|--|---------------------|
| | Identify the indicated muscle& write its applied anatomy | Identification-1 |
| 9 | identify the indicated muscle& write its applied anatomy | |
| | | Applied -1 |
| 10 | Identify the bone and write any two processes | Identification-1 |
| | | Processes -1 |
| 11 | Identify the bone and write any two angles | Identification-1 |
| 11 | | Angle -1 |
| 12 | Identify the bone and write any one peculiarity related to gender | Identification-1 |
| 12 | e.g., Hip bone, Clavicle, Sacrum | Peculiarities- 1 |
| Topic | - Joints | |
| 1 | Identify the joint & write its ligaments (Any 3) | Identification- 0.5 |
| 1 | | Ligaments- 1.5 |
| | Identify the joint & write names of actions occurring there (Any 3) | Identification- 0.5 |
| 2 | | Actions- 1.5 |
| | Identify the joint & write the type of joint as per Ayurved & Modern | Identification- 1 |
| 3 | science | Ayu. Type- 0.5 |
| 5 | | Modern type- 0.5 |
| | Identify the joint & write its clinical anatomy (Any two) | Identification- 1 |
| 4 | identify the joint & write its chinical anatomy (Any two) | Clinical anatomy-1 |
| | Identify the joint & write its relation (Any two) | Identification- 1 |
| 5 | Identify the joint & write its relation (Any two) | |
| | | Relation -1 |
| | Identify the joint & write the movements along with the muscle | Identification- 1 |
| 6 | | Movement -0.5 |
| | | Muscle – 0.5 |
| Topic | - Organs | |
| 1 | Identify the organ & write name of the Srotas related to it | Identification- 1 |
| 1 | | Sroras-1 |
| 2 | Identify the organ & write name of the kala related to it | Identification-1 |
| 2 | | Kala-1 |
| 3 | Identify the organ & write its Utpatti as per Ayurved | Identification-1 |
| 3 | | Utpatti-1 |
| 4 | Identify the organ & write its visceral impressions (Any 3) | Identification- 0.5 |
| 4 | | Impressions-1.5 |
| ~ | Identify the organ & write its blood/nerve supply | Identification- 0.5 |
| 5 | | Supply-1.5 |
| | Identify the organ & write it's the borders (Any two) | Identification- 1 |
| 6 | , | Borders -1 |
| | Identify the organ & write its surfaces (Any two) | Identification- 1 |
| 7 | actions, the organize white his surfaces (rang two) | Borders -1 |
| | Identify the organ& write its applied anatomy (Any 3 points) | Identification-0.5 |
| 8 | identity the organice write its applied anatomy (Any 5 points) | Applied -1.5 |
| Topic | Dadialagy | Applied -1.5 |
| Topic | - Radiology | Identification 05 |
| 1 | Identify the X-ray & write the structures seen in it (Any 3) | Identification- 0.5 |
| | | Structures-1.5 |
| 2 | Identify the view of the X-ray & write the marked structures (Any two) | Identification- 1 |
| | ~ | Structures-1 |
| Topic | - Central Nervous System/ Sense organs | |
| 1 | Name the lobes of the given organ | Each lobe -0.5 |
| 1 | e.g., cerebrum | Total -2 |

| 2 | Identify the sense organ & write its nerve supply | Identification-1 |
|---|--|------------------|
| Z | e.g., tongue | Supply-1 |
| 2 | Identify the marked structure and write its applied aspect (Any two) | Identification-1 |
| 3 | | Applied aspect-1 |

6 H - III Viva Voce (70 Marks)

| Recall Questions | Comprehention Questions | Application Questions |
|--|--|---|
| 40 Marks | 20 Marks | 10 Marks |
| 1. Sira-Dhamani-Strotas | | |
| 2. Shariropakramaniya Sharir | | |
| 3. Paribhasha Shaarir | 1. Nervous system | |
| 4. Praman Shaarira | 2. Endocrine system | 1. Garbha Sharir, |
| 5. Anatomical terminologies | 3. Lymphatic system | 2. Embryology |
| 6. Kalaa Sharir | 4. Cardiovascular system | 3. Respiratory system |
| Indriya Sharir & Sensory organ | 5. Urinary system | 4. Digestive system |
| 8. Reproductive system | | |
| e.g., Definition, types, numbers, planes, parts, Shlokas, etc. | e.g., Relations, Blood supply, Nerve Supply, Venous & Lymphatic drainage, etc. | e.g., Applied anatomy, Clinical anatomy, Surgical anatomy, Congenital anomalies etc. |

7. Reference and Resourses

- 1. Parishadhya Shabdarth Sharir
- 2. Pratyaksha shaririram
- 3. Sharisthana of all Samhita
- 4. Sushrut Samhita Sharirshtana- Dr. Bhaskar Govind Ghanekar
- 5. Brihat Shariram Vaidyaratna- P.S. Varrier
- 6. Abhinava Shariram- Acharya Damodar Sharma Gaur
- 7. Manava Sharir (Revised Edition)- Prof. Dinkar Govind Thatte
- 8. Sharir Rachana Vigyan (English)- Vaidya P.G. Athawale
- 9. Manual of Practical Anatomy Cunnigham Practical Manual Vol-1, Vol-2, Vol-3
- 10. Clinical Anatomy in Ayurveda Prof. D.G. Thatte & Prof. Suresh Chandra
- 11. Ayurvedic Human Anatomy Prof. Dr. Giridhar M. Kanthi
- 12. Sharir Rachana Vigyan Vol I & II– Dr. Sunil Kumar Yadav
- 13. Regional Anatomy B. D. Chaurasia
- 14. Rachana Sharir Vigyana Dr. Mahendra Sing
- 15. Relevant chapters of Brihtrayee and Laghuthrayee
- 16. Gray's Anatomy
- 17. Text Book of Human Anatomy- Inderbir Singh
- 18. Clinical Anatomy- Richard S Snell
- 19. Fundamentals of Human Anatomy- Dr. Chakraborthy
- 20. Human Osteology Poddar
- 21. A Handbook of Anatomical Terminology, Dr. Nidhi Shrivastava, Dr. Ravi Kumar Shrivastava, Dr. Rakesh Kumar Sharma.

COURSE CURRICULUM FOR FIRST PROFESSIONAL BAMS (PRESCRIBED BY NCISM)



PADARTHA VIJNANAM (SUBJECT CODE- AyUG-PV) FUNDAMENTAL PRINCIPLES OF AYURVEDA AND QUANTUM MECHANICS

(Applicable from 2021-22 batch onwards for 5 years or until further notification by NCISM, whichever is earlier)



BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110058



NCISM

I professional Ayurvedcharya (BAMS)

Subject Code: AyUG-PV

Padartha Vijnanam FUNDAMENTAL PRINCIPLES OF AYURVEDA AND QUANTUM MECHANICS

| Total number | of Teaching ho | urs: 230 | | |
|-------------------------------------|----------------|--------------------|-------|--|
| Lecture hours (LH) - Theory | | | 00 11 | |
| Paper I | 45 Hours | 90 Hours 90 Hour | | |
| Paper II | 45 Hours | | (LH) | |
| Non-Lecture hours (NLH) – Theory | | | | |
| Paper I | 70 Hours | 140 Hours (NLH) | | |
| Paper II | 70 Hours | | | |
| Non-Lecture hours (NLH) - Practical | | Hours | | |

| Examination (Papers & Mark Distribution) | | | | | |
|--|------------------------|---------------------------|------|----------|-----|
| Item | Theory Component Marks | Practical Component Marks | | | rks |
| | | Practical | Viva | Elective | IA |
| Paper I | 100 | 100 6 | 60 | 10 | 30 |
| Paper II | 100 | 100 | UU | (Set-FB) | 50 |
| Sub-Total 200 | | | 2 | 200 | |
| Total marks | 400 | | | | |

PREFACE

All Medical sciences whether ancient or modern, needs frequent updating. Acharya Vagbhata stresses upon reform of Ayurveda according to the present time (yuganurupasandarbha). The syllabus of Ayurveda also needs reformation for effective dissemination of principles of Ayurveda which is strongly based on Padartavijnanam. Acharya Vagbhata says one who seeks long life should respect Ayurveda by are knowedge (Adhiti). comprehension(Bodha)skill(Acharana) four strategies that and Attitude(pracharana). These teaching methodologies are evolved from the ancient upanishadic way of teaching(Adhyapanavidhi). The new principles of teaching strategies of blooms taxonomy correlate with the ancient way of teaching and the syllabus of Padarthavijnanam has been revamped according to the need of hour.

Padartha Vijnanam is a unique and mandatory subject needed for learning the stream of Ayurveda. It is the combination of science and philosophy. One can say that the science and philosophy are the two sides of the same coin. The search behind "existence of world/self" when progresses outward it travels the path of science and when this search is inwards it becomes philosophy. Thus, Padartha Vijnanam is an essential base of Ayurveda education. When the foundation becomes strong building also becomes strong.

Padartha Vijnanam not only provides the platform to understand Ayurveda better but it also helps the students to appreciate the moral values beneficiating them in developing the personality. As mentioned in graduate attributes this subject helps the student to become eloquent communicator and self-directed learner who constantly endeavors to advance knowledge and skills to improve healthcare and social wellbeing.

This syllabus reform of Padartha Vijnanam has taken care of adopting the modern teachinglearning methodology well-merging with the ancient one. This will definitely enhance the understanding of the subject in a better way.

Introduction of practicals is the zest for the subject. As we all know- "I hear, and I forget. I see and I remember. I do, and I understand". The teaching learning process must be joyful along with lecture methods like group discussions, debate, roleplay and PBL. They are also mentioned and the flexibility is kept. Here in this syllabus, the activity book is introduced to induce activity-based learning. This will definitely create the interest in the subject. There are some self-learning activities also which will induce the thirst for the knowledge in the student. This will help the student to understand theoretical concepts in a lucid way and also provides hands on experience

Index

| Course Code and Name of Course | 5 |
|---|----|
| Table 1- Course learning outcomes and matched PO. | 5 |
| Table 2 : Contents of Course AyUG-PV | 6 |
| Paper I | 6 |
| Paper II | 8 |
| Table 3: Learning objectives (Theory) of Course AyUG-PV | |
| Paper I | |
| Paper II | 27 |
| List of Practicals | 41 |
| Table 4: Learning objectives (Practical) of AyUG-PV | 46 |
| Table 5: Non Lecture Activities Course AyUG-PV | |
| Table 6: Assessment Summary AyUG-PV | |
| 6 A - Number of Papers and Marks Distribution | |
| 6 B - Scheme of Assessment (formative and Summative) | |
| 6 C - Calculation Method for Internal assessment Marks (30 Marks) | |
| 6 D -Evaluation Methods for Periodical Assessment | |
| 6 E- Paper Layout | 60 |
| Paper-I | 60 |
| Paper-II | 60 |
| 6 F- Disribution of Theory Exam | 61 |
| Paper I | 61 |
| Paper II | 61 |
| 6 G- Question paper blue print | 62 |
| Paper I – | 62 |
| Paper II | 63 |
| 6 H Distribution of Practical Exam | 64 |
| 7. References /Resourses | 65 |
| | |

Course Code and Name of Course

| Course code | Name of Course |
|-------------|---|
| | |
| AyUG-PV | Padartha Vijnanam (Fundamental Principles of Ayurveda |
| | and Quantum Mechanics) |
| | |

AyUG-PV Course

Table 1- Course learning outcomes and matched PO.

| со | Course learning Outcomes (CO) AyUG-PV At the end of the course AyUG-PV, the student should be able to- | Course learning Outcome matched with program learning outcomes. |
|------|--|--|
| CO 1 | Illustrate the scope and utility of Ayurveda | PO1 |
| CO 2 | Explain Philosophical foundation of Ayurveda, Principles (Siddhantha) of Darshana along with their similarities and relevance in Ayurveda and contemporary sciences. | PO1, PO2, PO6 |
| CO 3 | Analyse and interpret Padartha (Prameya) in Darshana and Ayurveda. Recognize their applications in Ayurveda. | PO1, PO2, PO9 |
| CO 4 | Distinguish, analyse and apply concept of Pramana shastra (Epistemology) in Darshana and Ayurveda. Demonstrate their applications in Ayurveda. | PO1, PO2, PO9 |
| CO 5 | Analyse and apply concept of Karya Karana Bhava in Ayurveda. | PO1, PO2, PO9 |

Table 2 : Contents of Course AyUG-PV

| Sr No | A2 List of Topics AyUG-PV Paper I | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
|----------|---|------------|-------------|------------------------|--------------------------------|
| 1 | Ayurveda Nirupana 1.1 Lakshana of Ayu, composition of Ayu. 1.2 Lakshana of Ayurveda. Swaroopa and Prayojana of Ayurveda 1.3 Lakshana and classification of Siddhanta. 1.4 Introduction to Basic Principles of Ayurveda and their significance. | I | | 5 | 6 |
| 2 | Padartha and Darshana Nirupana 2.1 Padartha Lakshana, Enumeration and classification of Padartha, Bhava and Abhava Padartha, Padartha according to Acharya Charaka (Karana-Padartha). 2.2 Etymological derivation of the word "Darshana". Classification and general introduction to 9 Schools of Indian Philosophy with an emphasis on: Nyaya, Vaisheshika, Sankhya ,Yoga, Meemamsa and Vedanta darshana. 2.3 Ayurveda as unique and independent school of thought (philosophical individuality of Ayurveda). 2.4 Principles and examples in contemporary sciences which will enhance understanding concept of Padartha. 2.5 Relevance of Study of Darshana and Padartha Vignana in Ayurveda | Ι | 25 | 10 | 14 |
| 3. | Dravya vijnaneeyam 3.1 Dravya: Lakshana, Classification and Enumeration 3.2 Panchabhuta: Various theories regarding the creation (theories of Taittiriyopanishad, Nyaya-Vaisheshika, Sankhya-Yoga, Sankaracharya, Charaka and Sushruta), Lakshana and qualities of each Mahabhoota. 3.3 Kala: Etymological derivation, Lakshana , division / units and significance. 3.4 Dik: Lakshana , division and significance. 3.5 Atma: Lakshana, classification, seat, Gunas, Linga according to Charaka, the method / process of knowledge formation (atmanah jnasya pravrittih). 3.6 Purusha: According to Ayurveda - Ativahikapurusha/ Sukshmasharira/ Rashipurusha/ Chikitsapurusha/ Sukshmasharira/ Rashipurusha/ Chikitsapurusha/ Sarmapurusha/ Shaddhatvatmakapurusha. 7 Manas: Lakshana, Synonyms, Qualities, Objects, Functions, dual nature of mind (ubhayaatmakatvam), as a substratum of diseases,Influence of Panchabhoutika aahara and aushadha (penta-elemental diet)on manas. 8 Role of Panchamahabhuta and Triguna in Dehaprakriti and Manasaprakriti respectively. 9 Tamas as the tenth Dravya. 3.10 Practical study/Application and Importance of each Kaarana dravya in Ayurveda. 3.11 Principles and examples in contemporary sciences | Π | 48 | 14 | 20 |

| | which will enhance understanding concept of Kaarana | | | | |
|----|--|-----|----|---|---|
| | dravya. | | | | |
| 4. | Guna vijnaneeyam | | | | |
| - | 4.1 Etymological Derivation, Classification and | | | | |
| | Enumeration according to various Darshana and | | | | |
| | Charaka, | | | | |
| | 4.2 Lakshana and Classification of Sartha Guna, | | | | |
| | Gurvadiguna, Paradiguna, Adhyatmaguna (41 Guna) | | | 4 | 6 |
| | 4.3 Gunapradhanyata (Importance of Guna) | | | | |
| | 4.4 Practical / clinical application of each Guna in | II | | | |
| | Ayurveda | | | | |
| | 4.5 Principles and examples in contemporary sciences | | | | |
| | which will enhance understanding concept of Guna. | | | | |
| 5. | Karma vijnaneeyam | | | | |
| | 5.1 – Introduction of concept of Karma According to | | | | |
| | Darshanaand Ayurveda | | | | |
| | – Classification of Karma | | | 2 | 4 |
| | 5.3 - Practical application of karma | II | | | |
| | 5.4 - Principles and examples in contemporary sciences | | | | |
| | which will enhance understanding concept | | | | |
| 6. | Samanya vijnaneeyam | | | | |
| | 6.1 – Introduction of concept of Saamaanya According to | | | | |
| | Darshana and Ayurveda. | | | | |
| | – Classification of Saamaanya | III | | 3 | 6 |
| | 6.3 - Practical application of saamaanya | | | Ũ | Ŭ |
| | 6.4 - Principle and examples in contemporary sciences | | | | |
| | which will enhance understanding the concept of | | | | |
| | Saamanya. | | | | |
| 7. | Vishesha vijnaneeyam | | | | |
| | 7.1 – Introduction of concept of Vishesha according to | | | | |
| | Darshana and Ayurveda | | | | |
| | 7.2 - Classification of Vishesha | III | | 3 | 6 |
| | 7.3 - Practical Application of vishesha | | | | |
| | 7.4- Principles and examples in contemporary sciences | | | | |
| | which will enhance understanding the concept of | | 27 | | |
| 0 | Vishesha | | 27 | | |
| 8. | Samavaya vijnaneeyam | | | | |
| | 8.1 – Introduction of concept of Samavaaya According | | | | |
| | toDarshana and Ayurveda. | III | | 2 | 4 |
| | 8.2 – Practical application of Samavaaya | 111 | | 4 | 4 |
| | 8.3- Principles and examples in contemporary sciences | | | | |
| | which will enhanceunderstanding the concept of | | | | |
| 0 | Samavaya | | | | |
| 9 | Abhava vijnaneeyam | | | | |
| | 9.1 – Introduction of concept of Abhaava According to | | | | |
| | Darshana and Ayurveda. 9.2 – Classification of Abhaava. | | | | |
| | | III | | 2 | 4 |
| | 9.3 – Practical application of Abhaava9.4- Principles and examples in contemporary sciences | | | | |
| | which will enhance understanding the concept of | | | | |
| | Abhava. | | | | |
| L | Aunava. | | | | |

| Pap | oer II | | | | |
|-----|---|------------|-------------|------------------------|----------------------------|
| | A2 List of Topics – AyUG-PV | B2 Term | C2 Marks | D2 Lecture hours | E2 Non-Lecture hours |
| 1 | Pariksha 1.1.Definition, Significance, Necessity and Use of Pariksha. 1.2.Definition of Prama, Aprama, Prameya, Pramata, Pramana. 1.3.Significance and importance of Pramana, Enumeration of Pramana according to different schools of Philosophy. 1.4.Four types of methods for examination in Ayurveda (Chaturvidha-Parikshavidhi), Pramana in Ayurveda. 1.5.Subsudation of different Pramanas under three Pariksha. 1.6.Practical application of methods of examination (Parikshavidhi) in Nidan and Chikitsa. | Ι | 26 | 6 | 12 |
| 2 | Aptopdesha Pariksha/Pramana Lakshana of Aptopadesha, Lakshana of Apta. Lakshana of Shabda, and its types. Shabdavritti-Abhidha, Lakshana, Vyanjana and Tatparyakhya.Shaktigrahahetu. Vaakya: Characteristics, Vaakyarthajnanahetu- Aakanksha, Yogyata, Sannidhi. Importance of Aptopadesha in maintaining Health, Prevention of Diseases, Diagnostics, | I | | 6 | 10 |
| 3. | Therapeutics and Research. 3. Pratyaksha Pariksha/Pramana 3.1.Lakshana of Pratyaksha, types of Pratyaksha- Nirvikalpaka- Savikalpaka with description, description of Laukika and Alaukika types and their further classification. 3.2.Indriya-prapyakaritvam, six types ofSannikarsha. 3.3.Indriyanam lakshanam, classification and enumeration of Indriya. Description of Panchapanchaka, Penta-elemental nature of Indriya (<i>Panchabhautikatwa</i> of Indriya) and similarity in sources (<i>Tulyayonitva</i>) ofIndriya. 3.4.Trayodasha Karana, dominance ofAntahkarana. 3.5.Hindrances in direct perception (<i>pratyaksha- anupalabdhikaarana</i>), enhancement of direct perception (Pratyaksha) by various | п | 42 | 8 | 14 |

| | | | 1 | | , |
|----|---|-----|----|----|----|
| | instruments/ equipments, necessity of other Pramanas in addition to Pratyaksha. 3.6.Practical study/ application of Pratyaksha in Sharir, Nidan (Diagosis), Chikitsa(Treatment) and Anusandhan (Research). | | | | |
| 4. | 4. Anumanapariksha/Pramana 4.1. Lakshana of Anumana. Introduction of Anumiti, Paramarsha, Vyapti, Hetu, Sadhya, Paksha, Drishtanta. Types of Anumana mentioned by Charaka and Nyayadarshana. 4.2. Characteristics and types of Vyapti. 4.3. Lakshana and types of Hetu, Description of Ahetu and Hetwabhasa. 4.4. Characteristics and significance of Tarka (logic). 4.5. Practical study/ application of Anumanapramana in Sharir, Nidan, Chikitsa and Anusandhan. | Π | | 10 | 15 |
| 5. | 5. Yuktipariksha/Pramana 5.1. Lakshana and description. 5.2. Importance in Ayurveda. 5.3. Practical study and utility in diagnostics, therapeutics and research. | III | | 2 | 2 |
| 6. | 6. UpamanaPramana 6.1. Lakshana. 6.2. Application in Sharir, diagnostics, therapeutics and research. | III | | 2 | 4 |
| 7. | Karya- Karana Siddhanta 7.1. Lakshana of Karya and Kaarana. Types of Kaarana. 7.2. Significance of Karya and Kaarana in Ayurveda. 7.3. Different opinions regarding the manifestation of Karya from Kaarana: Satkaryavada, Parinamavada, Vivartavada, Asatkaryavada, Arambhavada, Paramanuvada, Kshanabhanguravada, Pilupaka, Pitharpaka, Anekantavada, Swabhavoparamavada. Importance/ Utility of each of these in Ayurveda 7.4 Study of cause effect relationship, causality, causation in Contemporary sciences. | III | 32 | 11 | 13 |

| Paper I | | | | | | | | | |
|-------------------------|---|--------------------------------|--|--|--|---------------------------|---------------------------------------|----------------|-----------------------|
| A3 Course outcome | B3 Learning Objective (At the end of the session, the students should be able to) | C3 Domain/sub | D3 Must to know/ desirable to know/Nice to know | E3 Level Does/ Shows how/ Knows how/ Know | F3 T-L method | G3 Assessment | H3 Format ive /summ ative | I3 Te rm | J3 Integ ration |
| Topic 1- A | yurveda Nirupana Time (L | ecture:5 hours | Non lecture 6 ho | ours) | | | | | |
| CO1 | Describe the Nirukti (etymology) and Definition of Ayu | Cognitive/ Recall | Must Know | Knows | Lecture Group discussion | Written and Viva | F and S | Ι | |
| CO1 | Describe the components of Ayu | Cognitive/ Recall | Must Know | Knows | Lecture Group Discussion Enquiry Based learning | Written and Viva | F and S | Ι | |
| CO1 | Explain Synonyms of Ayu with their meaning and importance | Cognitive Recall | Must Know | Knows | Lecture Group Discussion | Written and Viva | F and S | Ι | |
| CO1 | Distinguish between 4 types Ayu namely Sukhayu, Dukhayu, Hitayu, Ahitayu | Cognitive Comprehensi on | Must Know | Knows | Lecture Group Discussion/ Problem Based Learning | Written and Viva, Quiz | F and S | Ι | |
| CO1 | Realises that the balance between hitayu | Affective | Must know | Knows | Group Discussion/ | viva | F | Ι | |

 Table 3: Learning objectives (Theory) of Course AyUG-PV

| | and Sukhayu will offer better living | | | | Debate | | | | |
|--------------|--|--------------------------------|-----------|-------|--|--|---------|---|--|
| CO1 | Describe Lakshana of Ayurveda and Enlist Synonyms of Ayurveda | Cognitive Recall | Must Know | Knows | Lecture Group Discussion | Written and Viva | Fand S | Ι | |
| CO1 | Explain different Swarupa of Ayurveda and Discuss Ayurveda Prayojana | Cognitive Comprehensi on | Must Know | Knows | Lecture Group Discussion/Prob lem Based Learning | Written and Viva Open Book Test | F and S | Ι | |
| CO1 | Explain Trisutra of Ayurveda and discuss Nityatva (eternity) of Ayurveda | Cognitive Comprehensi on | Must Know | Knows | Lecture Group Discussion/ Debate | Written and Viva | F and S | Ι | |
| CO1, CO 2 | Define Siddhanta | Cognitive Recall | Must Know | Knows | Lecture Presentation Discussion | Written and Viva | F and S | Ι | |
| CO1, CO 2 | Distinguish the types of Siddhanta | Cognitive Comprehensi on | Must Know | Knows | Lecture Group Discussion/ Enquiry Based Learning | Written and Viva, Puzzle | F and S | Ι | |
| CO1, CO 2 | Elaborate the Basic Principles of Ayurveda like Lokapurusha Samya Siddhanta Panchamahabhoota Siddhanta Tridosha Siddhanta Samanya Vishesha Siddhanta Karya Karana Siddhant | Cognitive Comprehensi on | Must Know | Knows | Lecture/ Group Discussion /Problem Based Learning/ Flipped Classroom | Written and Viva, quiz PBA CBA | F and S | Ι | |

| CO1, CO 2 | Justify the Application of Basic Principles in Ayurveda | Affective | Must know | Knows | Lecture Demonstration/ Group Discussion | Written and Viva | F and S | Ι |
|--------------|--|--------------------------------|----------------------|--------------|--|------------------------------------|---------|---|
| CO1, CO 2 | Recite the concern verses from Tarkasangraha and Charak Samhita | Cognitive Recall | Desirable to know | Kmows | Audio clips, classroom recitation | Viva, recitation competition | F and S | Ι |
| Topic 2- | Padartha and Darshana Nir | upana Time (Le | ecture:10 he | ours Non lec | ture14_hours) | | | |
| CO1, CO 2 | Classify padartha, differentiate bhava, abhava padartha and Appreciate Shat karana of Acharya Charaka. | Cognitive Recall | Must Know | Knows | Lecture/ Discussions PBL | Written and Viva, puzzle | F & S | Ι |
| CO1, CO 2 | Discuss similarity and dissimilarity of padartha | Cognitive Comprehensi on | Desirable to Know | Knows | Lecture/ Discussions/ Activity based learning | Written and Viva | F & S | Ι |
| CO2 | Explain nirukti and vyakhya (definition) of darshana | Cognitive Recall | Must Know | Knows | Lecture | Written and Viva | F & S | Ι |
| CO2 | Describe Origin of darshana and Explain Importance of darshana (prayojana) | Cognitive Comprehensi on | Must know | Knows how | Lecture / Group Discussion | Written and Viva, Quiz | F & S | Ι |
| CO1, CO 2 | Analyse terms viz - philosophy, metaphysics, aesthetics, epistemology, psychology in relation with darshana | Cognitive Comprehensi on | Nice to know | Knows | Lecture / Group Discussion/ Activity Based learning | Written and Viva | F & S | Ι |
| CO2 | Classify darshana and differentiate between asthika, nasthika, asthikanasthika | Cognitive Recall | Must Know | Knows | Lecture / Enquiry Based Learning | Written and Viva | F & S | Ι |

| | darshana | | | | | | | | |
|--------------|---|--------------------------------|----------------------|--------------|---|--|-------|---|--|
| CO1, CO 2 | Enumerate darshana relevant for Ayurveda study and mention the pioneers of each darshana | Cognitive Recall | Must Know | Knows | Lecture/ Role play/Group Discussion | Written and Viva, Puzzle | F & S | I | |
| CO1, CO 2 | Outline the reason for study of darshana in Ayurveda and Comprehend Philosophical foundation of Ayurveda | Cognitive Comprehensi on | Must Know | Knows how | Lecture/ Problem Based Learning/ Group discussion/Tutor ial | Written and Viva, Open Book Test | F & S | Ι | |
| CO2 | Explain meaning of nyaya and synonyms of nyayadarshana | Cognitive Recall | Must Know | Knows | Lecture Group discussion | Written and Viva | F & S | Ι | |
| CO2 | Enumerate nyayoktha 16 padarthas, 12 prameyas | Cognitive Recall | Desirable to Know | Knows | Lecture /Enquiry Based Learning | Written and Viva | F & S | Ι | |
| CO2 | Recall the content of nyaya sutra | Cognitive Recall | Nice to know | Knows | Lecture | Written and Viva | F & S | Ι | |
| CO2 | Outline salient features of nyayadarshana viz- chaturvida pramana, pitharapaka, arambhayada. | Cognitive comprehensi on | Must Know | Knows | Lecture/ Group discussion / Activity Based Learning | Written and Viva, Quiz | F & S | Ι | |
| CO2 | Explain meanings of vaisheshika and synonyms | Cognitive Recall | Must Know | Knows | Lecture/ | Written and Viva | F & S | Ι | |
| CO2 | Recall the content of vaisheshika sutra | Cognitive Recall | Nice to Know | Knows | Lecture | Written and Viva | F & S | Ι | |

| CO2 | Identify salient features of vaisheshika darshana viz-shatpadartha, paramanuvada, peelupakavada | Cognitive comprehensi on | Must Know | Knows | Lecture group discussion/Activ ity based learning | Written and Viva, quiz, puzzle | F & S | Ι | |
|--------------|--|--------------------------------|-----------------|-------|--|--|-------|---|--|
| CO2 | Explain the meaning of sankhya | Cognitive Recall | Must Know | Knows | Lecture | Written and Viva | | Ι | |
| CO2 | Enumerate, define and categorise 25 tatvas | Cognitive Recall | Must Know | Knows | Lecture discussion | Written and Viva puzzle | F & S | Ι | |
| CO2 | Recall the trividhadukha, triguna, satkaryavada | Cognitive Recall | Must Know | Knows | Lecture/ Inquiry based learning | Written and Viva | F & S | Ι | |
| CO2 | Define yoga and explain ashtangayoga | Cognitive comprehensi on | Must Know | Knows | Lecture Group discussion/demo nstration | Written and Viva, quiz | F & S | Ι | |
| CO2 | Recall content of yoga sutra | Cognitive Recall | Nice to know | Knows | Lecture | Written and Viva | F & S | Ι | |
| CO2 | Enumerate chittavrutti, panchaklesha, ashtasiddhi | Cognitive Recall | Must Know | Knows | Lecture Debate /Group Discussion | Written and Viva, quiz | F & S | Ι | |
| CO2 | Recall different type of yoga | Cognitive Recall | Nice to know | Knows | Lecture Self-Directed learning/Activit y based learning | Written and Viva, open book test | F & S | Ι | |
| CO1, CO 2 | Outline the salient features of meemamsa darshana and Vedanta darshana Viz. karma siddhanta, atma, maya, vivartavada, | Cognitive comprehensi on | Must Know | Knows | Lecture Group Discussion/ Debate | Written and Viva, Quiz | F & S | Ι | |

| CO1, CO 2 | Explain similarity between Nyaya, vaisheshika, Sankyha, yoga, meemamsa and Vedanta darshana with Ayurveda | Cognitive comprehensi on | Must Know | Knows how | Lecture discussion PBL/ Flip classroom | Written and Viva | F & S | Ι |
|--------------|---|---|----------------------|---------------|---|--------------------------------|-------|---|
| CO1, CO 2 | Explain Charvaka, Jaina and Bouddha darshana and their influence in Ayurveda | Cognitive comprehensi on | Must Know | Knows | Lecture Group Discussion | Written and Viva | F & S | Ι |
| CO1, CO 2 | Demonstrate Ayurveda as unique and independent school of thought (philosophical individuality of Ayurveda). | Cognitive Comprehensi on Affective | Must Know | Knows how/ | Lecture/ Group Discussions PBL | Written and Viva | F & S | Ι |
| CO 1 CO 2 | Compare the the Srishtiutpatti krama by different darshanas with contemporary theories like- Big Bang, The multiverse, brane world, the hylographic universe, Simulation theory etc | Cognitive Comprehensi on | Nice to Know | Knows | Lecture with Videos, Group discussion/ self learning | Puzzle, viva | F | Ι |
| CO 1 | Respect ancient philosophy and Ayurveda | Affective | Must know | Know | Discussion | Discussion Debate | F | Ι |
| CO1, CO 2 | Enumerate padartha according to different schools of thought | Cognitive Recall | Desirable to Know | Knows | Lecture Group Discussion | Written and Viva, Puzzle | F & S | Ι |
| CO1, CO 2 | Find principles and examples in contemporary sciences | Cognitive/ Comprehensi on | Nice to know | knows | Lecture/ Discussions/ Self-learning, | - | F | Ι |

| CO1, CO 2 | which will enhance understanding concept of Padartha. For ex- matter and energy. Analyse role of padartha in darshana and in Ayurveda and Demonstrate the role of Padarthavijnana in | Cognitive / Comprehensi on | Must Know | Knows how | Lecture/ Seminars /PBL | Written and Viva, Open Book Test | F & S | I |
|--------------|---|----------------------------------|-------------------|--------------|--|--|---------|---|
| CO2 | Ayurveda Recite concern verses | Cognitive Recall | Desirable to know | kmows | Edutainment Audio clips, classroom recitation | Viva, recitation competition | F&S | I |
| Topic-3 | Dravya vijnaneeyam Time | (Lecture:- 14 ł | hours Non lectur | e 20 hou | rs) | | | |
| CO3 | Explain Nirukti and Paribhasha (definition) of Dravya | Cognitive Recall | Must Know | Knows | Lecture | Written and Viva | F and S | п |
| CO3 | Classify Dravya and Differentiate between Karana and Karya dravya | Cognitive Recall | Must Know | Knows | Lecture Group Discussion/ Enquiry Based Learning | Written and Viva, Puzzle | F and S | п |
| CO3 | Enumerate Darvya as per different schools of thoughts | Cognitive Recall | Must Know | Knows | Lecture Group Discussion | Written and Viva, puzzle | F and S | П |
| CO3, CO1 | Value Practical application of study of Dravya in Ayurveda | Affective | Desirable to know | Knows how | Lecture Group Discussion | Written and Viva | F and S | П |
| CO3 | Explain the various theories (theories of Taittiriyopanishad, Nyaya-Vaisheshika, | Cognitive/ Comprehensi on | Must Know | Knows | Lecture Group Discussion /Activity Based | Written and Viva, Quiz | F and S | п |

| | Sankhya-Yoga, Sankaracharya, Charaka and Sushruta) regarding creation of Panchamahabhoota | | | | Learning | | | |
|-------------|---|----------------------------------|-----------|-------|--|--|---------|---|
| CO3 | Describe Prithvi Mahabhoota Explain qualities of Prithvi Mahabhoota | Cognitive / Comprehensi on | Must Know | Knows | Lecture Seminar/ Group Discussion | Written and Viva | F and S | Π |
| CO3 | Describe Aap Mahabhoota Explain qualities of Ap Mahabhoota | Cognitive, Comprehensi on | Must Know | Knows | Lecture Seminar/ Group Discussion | Written and Viva | F and S | п |
| CO3 | DescribeTeja Mahabhoota Explain qualities of Teja Mahabhoota | Cognitive, Comprehensi on | Must Know | Knows | Lecture Seminar/ Group Discussion | Written and Viva | F and S | п |
| CO3 | Describe Vayu Mahabhoota Explain qualities of Vayu Mahabhoota | Cognitive, comprehensi on | Must Know | Knows | Lecture Seminar/ Group Discussion | Written and Viva | F and S | п |
| CO3 | Describe Aakash Mahabhoota. Explain qualities of Aakash Mahabhoota | Cognitive, Comprehensi on | Must Know | Knows | Lecture Seminar/ Group Discussion | Written and Viva | F and S | ш |
| CO3, CO1 | Value Practical application of Panchamahabhoota in Ayurveda | Affective | Must know | Knows | Lecture Group Discussion, Demonstration | Written and Viva, Open Book Test | F and S | п |

| CO2 | Compare elementary particles/subatomic particles with Tanmatra/triguna. | Cognitive/ Recall | NK | Know | Video clips, discussions SDL | Quiz | F | п |
|--------------------|--|---------------------------------|-----------|--------------|---|--|-------|----|
| CO3, CO1 | Define the term <i>Kala</i> from various <i>darshanas</i> and <i>Ayurveda</i> . | Cognitive/ Recall | Must know | Knows | Lecture | Written and Viva | F & S | II |
| CO3 | Explain classification/types of <i>Kala</i> | Cognitive/ Recall | Must know | Knows | Lecture | Written and Viva | F & S | П |
| CO3, CO1 | Find illustrations of kala explained in Ashtang Hridaya. | Cognitive/ Comprehensi on | Must know | Knows | Lecture /Activity Based Learning | Written and Viva | F & S | II |
| CO3, CO2 CO1 | Give examples of importance of Kala in Ayurveda and time as per contemporary sciences | Cognitive/ Recall | Must know | Knows how | Problem Based Learning/ Group Discussion | Written and Viva, Quiz | F & S | п |
| CO3 | Define <i>the term Dik</i> . Explain classification/ division of <i>Dik</i> . | Cognitive/ Recall | Must know | Knows | Lecture /Activity Based Learning | Written and Viva, puzzle | F & S | П |
| CO3, CO1 | Illustrate significance of <i>Dishas</i> in Ayurveda with examples. | Cognitive/ Comprehensi on | Must know | Knows how | Lecture /Seminar | Written and Viva | F & S | Ш |
| CO3 | Find illustrations of Dik explained in Ashtangahridaya. | Cognitive/ Comprehensi on | Must know | Knows how | Group Discussion | Written and Viva, Open book test | F & S | II |
| CO3 | Define the term Atma, | Cognitive/ Recall | Must know | Knows | Lecture | Written and Viva | F & S | п |
| CO3 | Explain atma at different levels, seat, Gunas of Atma, | Cognitive/ Recall | Must know | Knows | Lecture | Written and Viva | F & S | п |

| CO1 CO3 | Explain Atma Linga according to Charaka Samhita. | Cognitive/ comprehensi on | Must know | Knows | Lecture / Flipped Classroom | Written and Viva | F & S | П |
|------------|---|---|----------------------|--------------|--|--|-------|----|
| CO3 | Describe the method / process of knowledge formation (<i>atmanah</i> <i>jnasya pravrittih</i>). | Cognitive/ Comprehensi on | Must know | Knows how | Lecture/ Demonstration/ | Written and Viva | F & S | п |
| CO3 | Describe Purusha as mentioned in Ayurveda | Cognitive/ Recall | Must know | Knows | Lecture | Written and Viva | F & S | П |
| CO3 | Differentiate Ativahikapurusha/ Sukshmasharira/ Rashipurusha/ Chikitsapurusha/ Karmapurusha/ Shad- dhatvatmaka-purusha. | Cognitive/ Comprehensi on | Must know | Knows how | Lecture / Group discussions | Written and Viva | F & S | П |
| CO3 | Recognize and state significance of Atmavijnanam | Affective | Desirable to know | Knows | Group Discussions/ Problem Based Learning | viva | F | п |
| CO3 | Define term Manas, Enlist synonyms, Explain it's Guna. Karma, Vishay. Explain dual nature of mind. (<i>ubhayaatmakatvam</i>), | Cognitive/Re call and Comprehensi on | Must know | Knows | Lecture / Activity Based Learning/Debate | Written and Viva. Puzzle | F & S | II |
| CO3 | Explain influence of Panchabhoutika aahara and aushadha (penta- elemental diet) on manas | Cognitive/ Recall | Must know | Knows how | Lecture/ discussions/ PBL | Written and Viva. Open Book Test | F & S | п |

| CO3 | Recognizes the utility of Knowledge of Mana | Affective | Must Know | Knows | Case Based learning | viva | F &S | П |
|-------------|---|---------------------------------|----------------------|--------------|---|--|-------|----|
| CO3, CO1 | Explain Concept of mind in other sciences. | Cognitive/ Recall | Nice to know | Knows | Discussions/ Videos | Written and Viva | F | II |
| CO1 | Explain Role of Panchamahabhuta and Triguna in Dehaprakriti and Manasaprakriti respectively. | Cognitive/ Comprehensi on | Must know | Knows how | Lecture / discussions/ C B L | Written and Viva | F & S | Ш |
| CO3 | Discuss the role of Tamas as the tenth Dravya | Cognitive/Co mprehension | Desirable to know | Know | Lecture Edutainment Role Play | Written and Viva | F & S | II |
| CO3 | Realize Practical application of study of dravya in Ayurveda | Affective | Desirable to know | Know | Group Discussions/ Case Base Learning/ Demonstration. | Written and Viva, quiz | F & S | Ш |
| CO3 | Recite Dravya Granth of Tarka Sangrah& defn from Charak | Cognitive Recall | Desirable to know | kmows | Audio clips/ classroom recitation | Viva, Recitation Competetio n | F&S | |
| CO3. CO2 | Discuss principles and examples in contemporary sciences which will enhance understanding the concept of Karana dravya. For ex- Quantum Physics | Cognitive/Co mprehension | Nice to know | Know | Lecture/ Discussions/ Self-learning activity | Open book testh | F | п |
| Topic -4 | Guna vijnaneeyam Time (L | ecture:-4 hours No | on lecture 6 hour | rs) | | | | |
| CO3 | Define Guna and classify Guna according to various Darshanas and Charaka Samhita | Cognitive Recall | Must know | knows how | Lecture /Demonstration | Written and Viva | F&S | Ш |

| CO3 | Explain the Lakshana of indriyartha Gunas with examples. | Cognitive Comprehensi on | Must know | Knows how | Lecture / Group Discussion | Written and Viva | F&S | П |
|-----|---|--------------------------------|-----------|--------------|---|--------------------------------|-----|----|
| CO3 | Discuss the Lakshana of Gurvadi Guna with examples. | Cognitive Comprehensi on | Must know | Knows how | Lecture /Seminar/ Group Discussion | Written and Viva, puzzle | F&S | п |
| CO3 | Explain the Lakshana of Paradi Guna with examples. | Cognitive Comprehensi on | Must know | Knows how | Lecture /Seminar/ Group Discussion | Written and Viva, Puzzle | F&S | п |
| CO3 | Describe the Lakshana of Adhyatma Guna with examples. | Cognitive Comprehensi on | Must know | Knows how | Lecture /Seminar/ Group Discussion | Written And Viva | F&S | II |
| CO3 | Appreciate the importance of Guna (Gunapradhanyata) | Affective | Must know | Knows | Discussion | Written Discussion viva | F&S | п |
| CO3 | Describe the practical application of Indriyartha Gunas in diagnosis of disease and Treatment | Cognitive Comprehensi on | Must know | Knows how | Lecture / Demonstration/ Case based learning | Written And Viva | F&S | п |
| CO3 | Describe the practical application of Gurvadi Guna in diagnosis of disease and Treatment | Cognitive Comprehensi on | Must know | Knows how | Lecture / Demonstration/ Case based learning | Written And Viva | F&S | II |
| CO3 | Describe the practical application of Paraadi Gunas. | Cognitive Comprehensi on | Must know | Knows how | Lecture / Demonstration/ Activity based learning | Written And Viva | F&S | п |

| CO3 | Describe the practical application of Adhyatma Guna . | Cognitive Comprehensi on | Must know | knows how | Lecture / Demonstration/ Problem Based Learning | Written And Viva | F&S | П |
|------------|---|--------------------------------|----------------------|--------------|--|---------------------|--|----|
| CO3 | Recite the concern verses from TarkaSangrah and Charak Samhita | Cognitive Recall | Desirable to know | kmows | Audio clip/ classroom recitation | viva | F&S Recitati on competi tion | П |
| CO1 CO2 | Discuss Principles and examples in contemporary sciences which will enhance understanding the concept of Guna. | Cognitive Comprehensi on | Nice to know | Knows | Lecture/ Discussions/ Self-learning activity | - | F | II |
| Topic - | 5. Karma vijnaneeyam Tin | ne (Lecture:2_ | hours Non lect | ure _4hou | rs) | | · | |
| CO3 | Define <i>Karma</i> acco. to <i>various Darshana</i> and <i>Ayurveda</i> . | Cognitive Recall | Must know | Knows | Lecture | Written And Viva | F&S | II |
| CO3 | Compare the <i>Karma</i> <i>Lakshana</i> (characteristics) from <i>Charaka Samhita</i> and Darshana | Cognitive Comprehensi on | Must know | Knows | Lecture/ Group discussion/ Flipped Classroom | Written And Viva | F&S | П |
| CO3 | Explain the types of <i>Karma</i> | Cognitive Comprehensi on | Must know | Knows | Lecture and discussion, demonstration | Written And Viva | F&S | п |
| CO3 | Describe the process of production and destruction of <i>Laukika</i> <i>Karma</i> with one | Cognitive Comprehensi on | Desirable to know | Knows how | Lecture and demonstration | Written And Viva | F&S | П |

| | example. | | | | | | | | |
|------------|---|--------------------------------|-------------------|--------------|---|---------------------|--|-----|--|
| CO3 | Describe the Adhyaatmika karma and its causal relationship with health and disease. | Cognitive Comprehensi on | Must know | Knows how | Lecture and discussion | Written And Viva | F&S | п | |
| CO3 | Enlist the other types of processes or pharmacological actions which came under the title of <i>Karma</i> in <i>Ayurveda</i> . Viz: <i>Panchakarma</i> , <i>Shastrakarma</i> , <i>Lekhana</i> , <i>Bruhana</i> etc. | Cognitive Recall | Must know | Knows how | Lecture and discussion/ Self Directed Learning | Written And Viva | S | П | |
| CO3 | Recite the concern verses from TarkaSangrah and Charak Samhita | Cognitive Recall | Desirable to know | kmows | Audio clip/ classroom recitation/ Edutainment | viva | F&S Recitati on competi tion | П | |
| CO1 CO2 | Discuss principles and examples in contemporary sciences which will enhance understanding the concept of Karma. | Cognitive Recall | Nice to know | Knows | Lecture/ Discussions/ Self-learning | - | F | П | |
| | . Samanya vijnaneeyam Lecture:3 hours Non lectur | a 6 hours) | · | | · | | | | |
| CO3 | Explain the Samanya(According to Ayurveda &Darshana) | Cognitive Comprehensi on | Must know | Knows | Lecture | Written And Viva | F&S | III | |
| CO3 | Distinguish the Samanya concept of Ayurveda from | Cognitive Comprehensi on | Must know | Knows | Lecture and discussion | Written And Viva | F&S | III | |

| | Darshana. | | | | | | | | |
|-----|--|--------------------------------|----------------------|--------------|--|---|--|-----|--|
| CO3 | Describe the Anuvrutti Buddhi | Cognitive Recall | Desirable to know | knows | Lecture and discussion | Written | F & S | III | |
| CO3 | Explain the types of Samanya (Acc. To Ayurveda and Darshana) | Cognitive Recall | Must know | Knows | Lecture and discussion/ Flipped Classroom | Written And Viva | F & S | III | |
| CO3 | Explain the importance of samanya in diagnosis and treatment | Cognitive Comprehensi on | Must know | Knows | Lecture and discussion/Case Based Learning | Written And Viva ,Quiz | S | III | |
| CO3 | Identify the examples of <i>Dravya-guna-karma</i> <i>Samanya</i> with each <i>DOSHA-DHATU-</i> <i>MALA</i> | Cognitive Comprehensi on | Must know | Knows how | Lecture and Demonstration/ Group Discussion | Written And Viva, Open Book Test | S | ш | |
| CO3 | Recite the concern verses from TarkaSangrah and Charak Samhita | Cognitive Recall | Desirable to know | kmows | Audio clip/ classroom recitation | viva | F&S Recitati on competi tion | | |
| CO1 | Discuss principle and examples in contemporary sciences which will enhance understanding the concept of Samanya. For ex-system biology | Cognitive Comprehensi on | Nice to know | knows | Self -Directed learning | - | F | Ш | |
| | Vishesh vijnaneeyam cture:3_ hours Non lectur | e 6 hours) | 1 | 1 | 1 | 1 | 1 | II | |
| CO3 | Explain Vishesha According to Ayurveda &Darshana | Cognitive Comprehensi on | Must know | Knows | Lecture and Group Discussion | Written And Viva | F&S | III | |

| CO3 | Distinguish Vishesha concept of Ayurveda | Cognitive Comprehensi | Must know | Knows | Lecture and Group | Written and Viva | F&S | III |
|-------------|---|--------------------------------|-------------------|--------------|---|-------------------------------------|-------|-----|
| CO3 | from <i>Darshana</i> . Describe the <i>Vyavrutti</i> <i>Buddhi</i> | on Cognitive Recall | Desirable to know | knows | Discussion Lecture and discussion | Written | F & S | ш |
| CO3 | Explain Vishesha in the context of Mahabhoota Paramanu | Cognitive Recall | Nice to know | knows | Lecture | Written | F & S | III |
| CO3 | Discuss the Viruddha Vishesha and Aviruddha Vishesh aand other types of Vishesha | Cognitive Comprehensi on | Must know | Knows how | Lecture and discussion, demonstration | Written And Viva | F&S | ш |
| CO3 | Explain the statement "Pravruttirubhayasyatu | Cognitive Comprehensi on | Must know | Knows how | Lecture, Problem Based Learning | Written Viva | F&S | III |
| CO3 | Provide different classifications of vishesha and their utility in Diagnosis and Treatment. | Cognitive recall | Must know | Knows how | Lecture/ Activity Based Learning | Written, Viva, Open Book Test | F&S | ш |
| CO3 | Identify the examples of <i>Dravya-guna-karma</i> <i>Vishesha</i> with each <i>DOSHA-DHATU-</i> <i>MALA</i> | Cognitive Comprehensi on | Must know | Knows how | Lecture and demonstration/ Game Based Learning | Written And Viva Quiz | S | ш |
| CO1, CO2 | Describe principles and examples in contemporary sciences which will enhance understanding the concept of Vishesha For ex- System Biology | Cognitive Comprehensi on | Nice to know | knows | Lecture/ Discussions/ Self-learning activity | viva- | F | ш |

| CO3 | Recite the concern verses from TarkaSangrah and Charak Samhita | Cognitive Recall | Desirable to know | kmows | Audio clip/ classroom recitation | viva | F&S Recitati on competi tion | ш |
|------------|---|--------------------------------|----------------------|--------------|---|------------------------------------|--|-----|
| | 8. Samavay vijnaneeyam Lecture:2_ hours Non lectur | e _4hours) | | | | | | |
| CO3 | Explain Samavaya (Acc. To <i>Ayurveda</i> and <i>Darshana</i>) | Cognitive Recall | Must know | Knows | Lecture | Written And Viva | F&S | III |
| CO3 | Describe the eternal relation between ayutasiddhavritti | Cognitive Comprehensi on | Must know | Knows how | Lecture and demonstration | Written And Viva | F&S | III |
| CO1 CO2 | Discuss principles and examples in contemporary sciences which will enhance understanding the concept of Samavaya | Cognitive Recall | Nice to know | knows | Lecture/ Discussions/ Self-learning activity | - | F | III |
| CO3 | Recite the concern verses from TarkaSangrah and Charak Samhita | Cognitive Recall | Desirable to know | kmows | Audio clip/ classroom recitation | Viva, Recitation competition | F&S | |
| | 9. Abhav vijnaneeyam | | | | | | | |
| CO3 | Lecture:2_hours Non lectur Define Abhava | Cognitive Recall | Must know | Knows | Lecture and discussion | Written And Viva | F&S | III |
| CO3 | Discuss the supportive and contradictory views for the acceptance of <i>Abhava</i> as a <i>Padartha</i> | Cognitive comprehensio n | Must know | Knows How | Lecture Group Discussion/ debate | Written And Viva | F&S | ш |
| CO3 | Explain the view of <i>Ayurveda</i> about <i>Abhava</i> | Cognitive Recall | Must know | Knows | Lecture demonstration | Written And Viva | F&S | ш |

| CO3 | Explain the four types of <i>Abhava</i> | Cognitive Recall | Must know | Knows | Lecture ,Activity Based Learning | Written And Viva, Puzzle | F&S | III |
|------------|--|--------------------------------|----------------------|--------------|--|---|--|-----|
| CO3 | Demonstrate the utility of the knowledge of <i>Abhava</i> in Ayurveda | Cognitive Comprehensi on | Must know | Knows how | Lecture, Group discussions Problem Based Learning | Written And Viva | F&S | III |
| CO1 CO2 | Discuss principles and examples in contemporary sciences which will enhance understanding the conceptof Abhava | Cognitive Recall | Nice to know | knows | Lecture/ Discussions/ Self-learning activity | - | F | III |
| CO3 | Recite the concern verses from TarkaSangrah and Charak Samhita | Cognitive Recall | Desirable to know | kmows | Audio clip/ classroom recitation | viva | F&S Recitati on compet etion | |
| Paper II | | | | | | | | |
| Торіс | c 1- (Pariksha) Time (Lectur | e:- 6 hours Non le | ecture 12 hours) | | | | | |
| CO4 | Describe Pariksha | Cognitive/ Recall | Must know | Knows | Lecture/Group Discussion | Written And Viva | F&S | I |
| CO4 | Explain the necessity & significance of pariksha | Cognitive Comprehensi on | Must know | Knows how | Lecture/Problem Based Learning/Debate | Written And Viva | F&S | Ι |
| CO4 | Describe Buddhi and its classification | Cognitive / Recall | Must know | Knows | Lecture/Activity based learning | Written And Viva | F&S | Ι |
| CO4 | Describe Prama, Prameya, Pramata, Pramana and differentiate Prama and | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva, open book test | F&S | Ι |

| CO4 | Describe the Significance of Pramana | Cognitive / comprehensi on | Must know | Knows how | Problem based learning | Written And Viva | F&S | Ι | |
|-----|--|----------------------------------|----------------------|--------------|---|---|-----|---|--|
| CO4 | Enumerate Pramana according to different schools of philosophy. | Cognitive / Recall | Must know | Knows | Lecture | Written And Viva, puzzle | F&S | Ι | |
| CO4 | Enumerate Pariksha as per Ayurveda. | Cognitive / Recall | Must know | Knows | Lecture/ Enquiry based learning | Written And Viva | F&S | Ι | |
| CO4 | Describe the Pramana accepted by different schools of Philosophy with one example each. | Cognitive / Recall | Must know | Knows | Lecture/ group discussion | Written And Viva, quiz | F&S | I | |
| CO4 | Describe 4 Pariksha explained by Ayurveda with one example each | Cognitive / Recall | Must know | Knows | Lecture/ activity based learning | Written And Viva, puzzle | F&S | Ι | |
| CO4 | Justify the inclusion of Pramanas under three Pariksha | Cognitive / Comprehensi on | Must know | Knows how | Problem based learning and flipped classroom | Written And Viva | F&S | Ι | |
| CO4 | Describe the practical application of Pariksha Vidhi in Diagnosis and Treatment. | Cognitive / Recall | Must know | Knows | Case based learning/ Group discussion | Written, open book test And Viva | F&S | Ι | |
| CO4 | Establish that the Pramanas are tool to gain the knowledge | Affective | Must know | knows | Group discussion | Viva | F&S | Ι | |
| CO4 | Recite the concern Verses from Tarkasangrah & CharakSamhita | Cognitive Recall | Desirable to know | kmows | Audio clips, classroom Recitation | Viva, Recitation competetion | F&S | Ι | |

| CO 4 | Describe Apta and Aptopadesh | Cognitive / Recall | Must know | Knows | Lecture | Written And Viva | F&S | Ι |
|------|---|-----------------------|-----------|-------|---|------------------------------|-----|---|
| CO 4 | Describe the significance of Aptopadesha in Chikitsa | Cognitive / Recall | Must know | Knows | Case based learning/ Group discussion | Written And Viva | F&S | Ι |
| CO 4 | Define the term Shabda | Cognitive / Recall | Must know | Knows | Lecture | Written And Viva | F&S | Ι |
| CO 4 | Describe types of Shabda | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva | F&S | Ι |
| CO 4 | Define the term Shaba artha bodhaka Vrutti | Cognitive / Recall | Must know | Knows | Lecture/ group discussion | Written And Viva | F&S | I |
| CO 4 | Enumerate Shabaartha bodhaka vrutti | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva, quiz | F&S | Ι |
| CO 4 | Define Abhidha Vrutti with illustration | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva | F&S | Ι |
| CO 4 | Define Lakshana Vrutti with examples | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva | F&S | Ι |
| CO 4 | Enumerate the types of Lakshanavrutti and define each of them with example | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva | F&S | Ι |
| CO 4 | Define Vyanjana vrutti with example | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva | F&S | Ι |
| CO 4 | Define Tatparyakhya vrutti with | Cognitive / Recall | Must know | Knows | Lecture/ Activity based | Written And Viva | F&S | Ι |

| | example | | | | learning | | | |
|------|---|-----------------------|-----------|-------|--|--------------------------------|-----|---|
| CO 4 | Define the term Pada with specification to Shakti and enumerate the types of Pada | Cognitive / Recall | Must know | Knows | enquiry based learning | Written And Viva | F&S | I |
| CO 4 | Enumerate Shaktigraha hetu | Cognitive / Recall | Must know | Knows | Lecture/ group discussion/ Problem based learning | Written And Viva, puzzle | F&S | I |
| CO 4 | Describe Shakti graha hetu | Cognitive / Recall | Must know | Knows | Lecture/ Tutorial/Proble m based learning | Written And Viva | F&S | Ι |
| CO 4 | Enumerate Vaakyarthajnana hetu | Cognitive / Recall | Must know | Knows | Lecture/ group discussion/ Problem based learning | Written And Viva, quiz | F&S | Ι |
| CO 4 | Define Akanksha with example | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning/ Problem based learning | Written And Viva | F&S | Ι |
| CO 4 | Define Yogyata with example | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning/ Problem based learning | Written And Viva | F&S | Ι |
| CO 4 | Define Sannidhi with example | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning/ Problem based learning | Written And Viva | F&S | Ι |

| CO 4 | Describe importance of Aptopadesha in maintaining Health, Prevention of diseases, diagnostics, therapeutics and research. | Cognitive/ Comprehensi on | Must know | knows | Lecture/ Activity based learning/ Problem based learning | Written And Viva, open book test | F&S | Ι |
|----------|---|----------------------------------|-------------------|--------------|--|---|-----|----|
| CO4 | Recite the concern Verses from Tarkasangrah & CharakSamhita | Cognitive Recall | Desirable to know | kmows | Audio clips, classroom Recitation | Viva, Recitation competetion | F&S | I |
| Topic 3- | Pratyaksha Pariksha/Pra | mana Time (Lec | ture:8_ hour | s Non lectur | e _14hours) | | | |
| CO4 | Define Pratyaksha | Cognitive / Recall | Must know | Knows | Lecture/ Tutorial/Activit y based learning | Written And Viva | F&S | П |
| CO4 | Enumerate the types of Pratyaksha | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva | F&S | II |
| CO4 | Describe types of Pratyaksha | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning/ Problem based learning | Written And Viva, quiz | F&S | п |
| CO4 | Describe Indriya Prapyakaritva Mechanism of sensory perception) | Cognitive / comprehensi on | Must know | Knows | Lecture/ Flip classroom/ Problem based learning | Written And Viva, | F&S | п |
| CO4 | Define Sannikarsha | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva | F&S | п |

| CO4 | Describe the types of Sannikarsha | Cognitive / comprehensi on | Must know | Knows how | Lecture/ Problem based learning | Written And Viva, puzzle | F&S | п |
|-----|--|----------------------------------|-----------|--------------|---|---|-----|----|
| CO4 | Define Indriya | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva | F&S | П |
| CO4 | Enumerate the types of Indriya | Cognitive / Recall | Must know | Knows | Lecture/ role play | Written And Viva | F&S | II |
| CO4 | Define Jnanendriya | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva | F&S | II |
| CO4 | Enlist the functions of Karmendriya | Cognitive / Recall | Must know | Knows | Problem based learning | Written And Viva | F&S | II |
| CO4 | Describe the function of Manas in relation to Jnanotpatti | Cognitive / Recall | Must know | Knows | Lecture/ Problem based learning | Written And Viva | F&S | Ш |
| CO4 | Justify the role of Manas as ubhayendriya in relation with Jnanotpatti and Karma. | Cognitive / Comprehensi on | Must know | Knows how | Problem based learning / Group discussion/Deba te | Written And Viva, open book test | F&S | II |
| CO4 | Enumerate Panchapanchaka and describe its significance with respect to Pratyaksha Jnana | Cognitive / Recall | Must know | Knows | Lecture/ Problem based learning / Group discussion | Written And Viva, quiz | F&S | II |
| CO4 | Enumerate and describe briefly the various theories of Darshana and Ayurveda, which highlight the relationship of Indriya | Cognitive / Comprehensi on | Must know | Knows | Group discussion/ role play/debate | Written And Viva, open book test | F&S | п |

| | and Panchamahabhuta. | | | | | | | |
|-----|--|----------------------------------|-----------|--------------|--|---|-----|----|
| CO4 | Justify the specificity of Indriya for perceiving specific Artha | Cognitive / Comprehensi on | Must know | Knows how | Activity based learning/ Problem based learning / Group discussion | Written And Viva | F&S | п |
| CO4 | Enumerate Trayodasha Karana | Cognitive / Recall | Must know | Knows | Lecture/Tutorial / Activity based learning | Written And Viva, puzzle | F&S | П |
| CO4 | Enumerate Antahkarana | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva | F&S | П |
| CO4 | Enumerate the functions of Antahkarana | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva | F&S | II |
| CO4 | Illustrate the role Antahkarana in Jnanotpatti with example to highlight the significance | Cognitive / Comprehensi on | Must know | Knows how | Lecture/ Problem based learning / Group discussion | Written And Viva, open book test | F&S | п |
| CO4 | Describe the factors which create hindrance for perception with an illustration (pratyaksha- anupalabdhikaarana) | Cognitive / Comprehensi on | Must know | Knows | Activity based learning/ Problem based learning / Group discussion | Written And Viva, puzzle | F&S | п |
| CO4 | Enumerate a few equipments or aids which help in enhancing the direct perception | Cognitive / Recall | Must know | Knows | demonstrations/ Problem based learning / Group discussion | Written And Viva, quiz | F&S | п |
| CO4 | Justify the necessity of other pramana with textual references and | Cognitive / Application | Must know | Knows how | Lecture/ Activity based learning/ | Written And Viva, open book | F&S | п |

| | illustrations | | | | Problem based learning / Group discussion | test | | |
|---------|--|----------------------------------|-------------------|--------------|--|------------------------------------|-----|----|
| CO4 | Describe the practical application of Pratyaksha in Sharir, Nidan, Chikitsa and Anusandhan (research). | Cognitive / comprehensi on | Must know | Knows | Lecture/ case- based learning / Group discussion | Written And Viva | F&S | п |
| CO4 | Justify the role Pratyaksha (Observation and interpretation skills for generalization of results) in research | Cognitive / Application | Must know | Knows how | Lecture/ Activity based learning/ Problem based learning / Group discussion | Written And Viva | F&S | п |
| CO4 | Realizes importance as well as limitation of Pratyaksha | Affective | Must know | Knows | Group discussion | Viva | F&S | п |
| CO4 | Recite the concern Verses from Tarkasangrah & CharakSamhita | Cognitive Recall | Desirable to know | kmows | Audio clips, classroom Recitation | Viva, Recitation competetion | F&S | II |
| Topic 4 | - Anumana pariksha/Prar | nana Time (Lect | ure:10 hour | s Non lectur | e _15hours) | | | |
| CO4 | Describe Anumana | Cognitive / Recall | Must know | Knows | Lecture | Written And Viva | F&S | II |
| CO4 | Define the terms with an example (Anumiti, Paramarsha, Vyapti, Hetu, Sadhya, Paksha, Drishtanta) | Cognitive / Recall | Must know | Knows | Lecture/ enquiry based learning | Written And Viva, quiz | F&S | П |
| CO4 | Describe the types of anumana | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning/ group discussion | Written And Viva, | F&S | II |

| CO4 | Describe Pancha Avayava Vakya | Cognitive / Recall | Must know | Knows | Lecture/ gamification/ Problem based learning / Group discussion | Written And Viva | F&S | Ш |
|-------------|--|----------------------------------|----------------------|--------------|---|---|-----|----|
| CO4, CO2 | Associate Contemporary method of carrying out research with Pancha Avayava Vakya | Cognitive / Comprehensi on | Desirable to know | Knows how | Self directed learning, / Problem based learning / Group discussion | Written And Viva, open book test | F&S | Ш |
| CO4 | Define vyapti | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva | F&S | П |
| CO4 | Describe the types of vyapti | Cognitive / Recall | Must know | Knows | Lecture/ Problem based learning | Written And Viva | F&S | П |
| CO4 | Define hetu | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva | F&S | П |
| CO4 | Describe the types of hetu | Cognitive / Recall | Must know | Knows | group discussion | Written And Viva | F&S | II |
| CO4 | Enlist Sad-hetu Lakshana | Cognitive / Recall | Must know | Knows | Lecture/ Problem based learning | Written And Viva, quiz | F&S | II |
| CO4 | Define Hetwabhasa | Cognitive / Recall | Must know | Knows | Lecture/ Problem based learning | Written And Viva | F&S | П |
| CO4 | Explain the types of Hetwabhasa | Cognitive / Comprehensi on | Must know | Knows | Lecture/Tutorial group discussion | Written And Viva, puzzle, quiz | F&S | П |
| CO4 | Describe Ahetu | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva | F&S | П |

| CO4 | Describe Tarkaas per Nyaya Sutra and Tarka Sangraha | Cognitive / Recall | Must know | Knows | Lecture Tutorial/ Problem based learning | Written And Viva, quiz | F&S | П |
|------|--|----------------------------------|----------------------|--------------|--|---|-----|-----|
| CO4 | Distinguish between Tarka as Aprama and tool in Anumana | Cognitive / Comprehensi on | Must know | Knows how | Enquiry based learning/ group discussion/debat e | Written And Viva | F&S | П |
| CO4 | Justify the role of Tarka in Anumana | Cognitive / Comprehensi on | Must know | Knows how | Activity based learning/ Problem based learning / Group discussion | Written And Viva, open book test | F&S | Π |
| CO4 | Demonstrate the practical applications of Anumana Pariksha (with few examples) in Sharir, Nidan, Chikitsa and Anusandhan (research). | Cognitive / Application | Must know | Knows how | Role play/ Game based learning / Group discussion | Written And Viva, open book test | F&S | II |
| CO4 | Recite the concern Verses from Tarkasangrah & CharakSamhita | Cognitive Recall | Desirable to know | kmows | Audio clips, classroom Recitation | Viva, Recitation competetion | F&S | I |
| Торі | c 5 - Yukti pariksha/Prama | ana Time (Lectu | ire:2 hours | Non lecture | _2hours | | | |
| CO4 | Describe Yukti | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning/ Group discussion | Written And Viva | F&S | III |
| CO4 | Compare Yukti as an independent Pariksha and as a part of Anumana | Cognitive / Comprehensi on | Must know | Knows how | Lecture/ Activity based learning/ Problem based | Written And Viva, open book test | F&S | ш |

| | | | | | learning / Group discussion | | | |
|----------|---|---------------------------------|-------------------|--------------|---|------------------------------------|-----|-----|
| CO4 | Describe the Importance of Yukti in Ayurveda | Cognitive / Recall | Must know | Knows how | Lecture / Activity based learning/ Problem based learning / Group discussion | Written And Viva | F&S | ш |
| CO4 | Describe the practical application of Yukti in Sharir, Nidan, Chikitsa and Anusandhan (research). | Cognitive Recall | Must know | Knows how | Lecture/ Activity based learning/ Problem based learning / Group discussion | Written And Viva | F&S | ш |
| CO4 | Recite the concern Verses from CharakSamhita | Cognitive Recall | Desirable to know | knows | Audio clips, classroom Recitation | Viva, Recitation competition | F&S | III |
| 8. Topic | c 6 – Upamana Pramana T | Time (Lecture: | _2_ hours Non le | ecture _4h | ours) | | | |
| CO4 | Define UpamanaEnlist the types of Upaman | Cognitive / Recall | Must know | Knows | Lecture/ Activity based learning | Written And Viva | F&S | III |
| CO4 | Describe the Importance of Upamana in Ayurveda | Cognitive / Recall | Must know | Knows | Lecture/ Problem based learning / Group discussion | Written And Viva | F&S | ш |
| CO4 | Describe the practical applications of Upamana in Sharir, Nidan, Chikitsa and Anusandhan. | Cognitive/ Comprehensi on | Must know | Knows | Lecture/ Game based learning/ Problem based learning / Group discussion | Written And Viva, quiz | F&S | ш |
| CO4 | Recite the concern Verses from Tarkasangrah & Charak | Cognitive Recall | Desirable to know | kmows | Audio clips, classroom Recitation | Viva, Recitation competition | F&S | III |

| Topic 7 | - Karya- Karana Siddhant | a Time (Lecture: | 11 hours N | on lecture _ | 13hours) | | | |
|------------|---|---------------------------------|------------|--------------|--|---------------------------|-------|-----|
| CO5 CO2 | Define Karya and Karana. List types of Karana. Charakokta Dashvidha Parikshya Bhava. | Cognitive/ Recall | Must know | Knows | Lecture Tutorial | Written and Viva | F & S | ш |
| CO5 | Explain Charakokta Dashvidha Parikshya Bhava. | Cognitive/Co mprehension | Must know | Knows | Lecture/Problem Based learning | Written and Viva | F & S | III |
| CO5 CO2 | Describe the significance of Karya and Kaarana in Ayurveda | Cognitive/ Comprehensi on | Must know | Knows how | Lecture/problem based activity | Written and Viva | F & S | ш |
| CO5 CO2 | Realises the utility of Charakokta Dashvidha Parikshya Bhav in understanding situations and taking decisions | Affective | Must know | Knows | Group discussion/ Role play/ Debate | | F | ш |
| CO5 CO2 | Distinguish different opinions regarding the manifestation of Karya from Karana | Cognitive / Application | Must know | Knows how | Edutainment Role play/ Debate group discussion/debat e | Written and Viva, quiz | F & S | ш |
| CO5 CO2 | Analyse Satkaryavada and relate it with Ayurveda Siddhanta | Cognitive / Application | Must know | Knows how | Lecture & Group Discussion/deba te | Written and Viva | F & S | ш |
| CO5 CO2 | Analyse Asatkaryavada & relate it with Ayurveda Siddhanta | Cognitive / Application | Must know | Knows how | Lecture & Group Discussion/deba te | Written and Viva | F & S | ш |

| CO5 | Analyse Parinamavada | Cognitive / | Must know | Knows | Lecture & | Written and | F & S | |
|-----|-------------------------|-------------|-----------|-------|-----------------|-------------|-------|-----|
| CO2 | & relate it with | Application | | how | Group | Viva | | III |
| | Ayurveda Siddhanta | | | | Discussion | | | |
| CO5 | Analyse Arambhavada | Cognitive / | Must know | Knows | Lecture & | Written and | F & S | |
| CO2 | & relate it with | Application | | how | Group | Viva | | III |
| | Ayurveda Siddhanta | | | | Discussion | | | |
| CO5 | Analyse Paramanuvada | Cognitive / | Must know | Knows | Lecture & | Written and | F & S | |
| CO2 | and relate it with | Application | | how | Group | Viva | | III |
| | Ayurveda Siddhanta | | | | Discussion | | | |
| CO5 | Explain Vivartavada | Cognitive/ | Must know | Knows | Lecture & | Written and | F & S | |
| CO2 | and relate it with | Comprehensi | | how | Group | Viva | | III |
| | Ayurveda Siddhanta | on | | | Discussion | | | |
| CO5 | Explain | Cognitive/ | Must know | Knows | Lecture & | Written and | F & S | |
| CO2 | Kshanabhangurvada | Comprehensi | | how | Group | Viva | | III |
| | and relate it with | on | | | Discussion | | | 111 |
| | Ayurveda Siddhanta | | | | | | | |
| CO5 | Explain Swabhavavada | Cognitive/ | Must know | Knows | Lecture & | Written and | F & S | |
| CO2 | and relate it with | Comprehensi | | how | Group | Viva | | III |
| | Ayurveda Siddhanta | on | | | Discussion | | | |
| CO5 | Explain Peelupakavada | Cognitive/ | Must know | Knows | Lecture & | Written and | F & S | |
| CO2 | and relate it with | Comprehensi | | how | Group | Viva | | III |
| | Ayurveda Siddhanta | on | | | Discussion/deba | | | 111 |
| | | | | | te | | | |
| CO5 | Explain | Cognitive/ | Must know | Knows | Lecture & | Written and | F & S | |
| | Pitharapakavada and | Comprehensi | | how | Group | Viva | | Ш |
| | relate it with Ayurveda | on | | | Discussion/deba | | | |
| | Siddhanta | | | | te | | | |
| CO5 | Explain Anekantavada | Cognitive/ | Must know | Knows | Lecture & | Written and | F & S | |
| | and relate it with | Comprehensi | | how | Group | Viva | | III |
| | Ayurveda Siddhanta | on | | | Discussion | | | |
| C05 | Explain | Cognitive/ | Must know | Knows | Lecture & | Written and | F & S | |
| CO2 | Swabhavoparamavada. | Comprehensi | | how | Group | Viva | | III |
| | | on | | | Discussion | | | |

| CO5 CO2 | Recite the concern Verses from Tarkasangrah & CharakSamhita | Cognitive Recall | Desirable to know | kmows | Audio clips, classroom Recitation | Viva, Recitation competition | F&S | III | |
|--------------|---|----------------------------------|-------------------|-------|---|------------------------------------|-----|-----|--|
| CO5, CO2 | Value cause and effect theory | Affective | Must know | Knows | Debate/Group Discussion | Viva | F | III | |
| CO 5, CO2 | Analyse cause effect relationship, causality, causation in contemporary sciences | Cognitive / Comprehensi on | Nice to know | Knows | Self directed learning , Flipped classroom, Group Discussions. | - | - | III | |

List of Practicals

Course AyUG-PV_: Practical List

Marks: 100

Hours:- 45 (included in non Lecture hours)

| SN | Name of Topic/ Name of Practical | Term | Activity / Practical |
|----|-------------------------------------|------|--|
| P1 | Ayurved Nirupan | I | Ayurved Perception identification: Ask the meaning of Ayurveda to your parents, friends and family members (min 10) and write it, give your opinion on it. Introduction to communication skills. Conduct of survey. |
| P2 | Darshana and Padartha | I | Darshan concept development: Find and write names of different philosophies? Discussions: meanings of philosophy, darshana, spirituality, religion. Are they same or different? Write in Activity Book. |
| P3 | Hitayu/ Sukhayu lakshanas | Ι | • Identification of characters of Hitayu, & Sukhayu in Healthy individuals. |
| P4 | Dravya | Ι | Identification of Guna and Karma. Make a list of 10 dravyas surrounding you and identify Guna and Karma in it. Panchbhautik nature identification: Demonstrate the Panchamahabhuta in any five ahara dravya and five sharira dravya/ avayava with a neat labeled diagramme. (ex-cell, blood, vata, pitta, kapha etc). Determination of Directions: Identify the directions in and enlist the content in each direction in your campus. Conceptualize Time : Discussion and understanding of Kala as per Ayurved and contemporary sciences. Categorization of Aushadhi dravya by dominance of Mahabhoot e.g. Parthiv / Jaleeya/ Agney/ Vayaveey/ Akasheey dravya with reasons. Early Clinical Exposure(ECE): Visit the OPD, find the diseases common for different age groups (balyavastha/ tarunyavastha/ vruddhavastha) |

| P5 | Guna | II | Identification: |
|----|-------------------|----|---|
| | | | Sartha Guna : Identify concept of Shabda, Sparsha, Rupa, Rasa, Gandha in Dravya. |
| | | | Application and demonstration find the different therapies based on 5 Sartha |
| | | | Gunas. e.g. Gandha. Shabda, Sparsha. |
| | | | Observe /Experience/ Study / Read book or article present on (any one) |
| | | | Aromatherapy- Gandha Chikitsa. Music therapy/ Mamtra Chikitsa -Shabda guna. |
| | | | Sparsha- Touch therapy. |
| | | | Gurvadi Guna: Identify guna in any five |
| | | | ahara dravya : different vargas. |
| | | | in Sharir dravya: dosha, dhatu mala. |
| | | | Comparison Gurvadi gunas and corelate with concepts learned in Physics, |
| | | | Chemistry and Biology. |
| | | | Observation(survey) of the effects of Seasons on Gurvadi gunas in body, nature etc |
| | | | Paradi Guna and their application in five examples. |
| | | | Atma Guna identification: Making or Framing their real life situations related to |
| | | | Atma Guna(sukha, dukkha etc) |
| P6 | Karma | II | Conceptualization Karma, its application in branch of Ashtanga Ayurveda. panchakrma/ Shastrakarma etc |
| | | | Illustration : Make a collage of pictures/ photos depicting five types of karma an their similarity with concepts learned in Physics, Chemistry etc. |
| P7 | Pratyaksha Praman | II | Observation : Note down the factors from Prakruti analysis which you can |

| | | | understand through pratyaksh (like- colour, dry skin) |
|-----|--------------------------|-----|--|
| | | | Identification : Find few identification marks for identification of herbs/ minerals |
| | | | which need Pratyaksha. |
| | | | ECE : Pramans in examination of patient and Diagnosis of disease. |
| | | | Identifies the gunas which can be perceived by one sense (ekendriya) organ and |
| | | | more than one sense organ (Dwiendriya etc). |
| | | | Demonstrate with examples of Shabda,(snigdha/ ruksha etc) Sparsha (snigdha/ |
| | | | ruksha etc), Rupa, Rasa(taste threshold video), Gandha. (5 examples) |
| | | | Tuksha etc), Rupa, Rasa(taste tileshold video), Galidia. (5 examples) |
| P8 | Pratyaksha Praman | II | Observation : Find out how one can overcome limitations of Pratyaksha by |
| | Limitations | | advances in equipment. (microscopre, telescope etc) |
| | | | Justification of use of various equipment in examination of patient and Diagnosis |
| | | | of disease. (X ray, USG etc) |
| P9 | Anuman Praman | II | Application in Real life situation |
| | | | Write 3 examples of Vyapti (associations)in real life. |
| | | | Find and explain 5 examples of Anumana pramana as per types. |
| | | | Write 3 examples of panchavayava vakya. Correlate it with practicals that you have |
| | | | conducted. |
| | | | Examples of Hetvabhas.(Any three) |
| | | | Study use of inference in various sciences. |
| P10 | Samanya Vishesh Siddhant | III | Identification: Visit vanaushadhi udyan of your college. Find samanyatva and visheshatva among plants.Illustration : Make a chart of food articles and activities to illustrate the relationship of samanya/vishesha with dosha-dhatu-malas. |
| | | | Application: Make a list/ collection of seasonal vegetables and fruits which are |

| | | | Samanya/Vishesha with the dosha.(five examples) |
|-----|-------------------------|-----|--|
| P11 | Samvay | III | Conceptualization Mention five real life examples of Nitya and anitya sambandha. |
| P12 | Abhav | III | Application: Write five real life experiences of pragabhava, pradhwamsabhava, |
| | | | atyantabhava and anyonyabhav. |
| P13 | Upman Praman | III | Illustration : Upamana in practical life or with your prior learning. (Examples of |
| | | | upamana from Ashtang Hridaya and Charak samhita) and prior learning (Examples |
| | | | in Physics, chemistry etc) |
| P14 | Yukti Praman | III | Conceptualization: How various factors influence the process of the decision |
| | | | making? |
| | | | Application : Write 5 examples of Yukti in practical life or with your prior |
| | | | learning. |
| | | | ECE: Role of Yukti in Sharir, Nidan, Chikitsa and Anusandhan. |
| P15 | Satkaryavad and other | III | Justification : Parinama vada: Describe 3 real life or with your prior learning |
| | vadas | | examples (Physics, Chemistry etc). |
| | | | Justification of Satkarya vada.: Describe 3 real life or with your prior learning |
| | | | examples. |
| | | | Swabhavoparama vada : Describe 3 real life or with your prior learning examples. |
| | | | Pakajotpatti siddhanta.: Write 3 examples of real life or with your prior learning. |
| | | | Justification of Arambhavada Describe 3 real life or with your prior learning |
| | | | examples |
| P16 | Cause and effect theory | III | Illustration: Karya Karan Bhav: Write Samavayi, asamavayi and Nimitta Karana of |
| | | | a karya in real life examples (5 examples). |
| | | | Examples learned in Physics, Chemistry, Biology. Search Find out use of cause effect theory in other sciences. |
| | | | Schematic representation of cause effect in any examples. |

| | | | Application: Assess the 10 factors of Charakokta Karyakarana bhava regarding any task consider the task as karya Remember and write theories of evolution you learned within and other than syllabus. | | | | | |
|----|------------------------------|------|--|--|--|--|--|--|
| A1 | Other Activities in Journal. | I, | 1. Oral presentation: on allotted topic, PPT slides be made and Copy of slides be | | | | | |
| | | II, | pasted in activity book | | | | | |
| | | III. | 2. Quiz: Participation of all students in Quiz on some topic of Padartha vijnana. | | | | | |
| | | | 3. Recitation: Important shloka of padartha vijnana recitation everyday or | | | | | |
| | | | alternate days by students and written in diary. | | | | | |
| | | | 4. Each student will do Pick and speak on topics of Padartha Vijnana. | | | | | |
| | | | 5. e charts / animations etc. | | | | | |

| A4 Cours e outco me | B4 Learning Objective (At the end of the session, the Students should be able to) | C4 Domain/ sub | D4 Must to know/ desirab le to know/ Nice to know | E4 Level Does/ Shows how/ Knows how/ Know | F4 T-L method | G4 Assessmen t | H4 Formativ e /summati ve | I4 Te rm | J4 Integrati on |
|---------------------------------|---|-----------------------|---|--|--|----------------------|---------------------------------------|----------------|-----------------------|
| | Practical1-Ayurved Nir | upan Time | (practical | - 2 hours) | | | | | |
| CO1 | Define Ayurved | Cognitive Recall | МК | knows | discussion | Viva | F & S | I | |
| CO1 | Conduct the survey to identify the perception about Ayurved in the society | Psychom otor | МК | Shows | Demonstration/ discussion | Viva | F&S | I | |
| | Practical2-Darshan and | Padarth (I | Practical- | lhour) | | • | | | |
| CO2 | Discuss and compare the meanings of philosophy, darshana, spirituality, religion. | Cognitive / Recall | МК | Knows how | Demonstration/ discussion/ brainstorming | Viva | F &S | Ι | |
| CO2 | Find and write names of different philosophies? | Cognitiv e/Recall | МК | Knows how | Demonstration/ discussion/ brainstorming | Viva | F&S | Ι | |

Table 4: Learning objectives (Practical) of AyUG-PV

| CO 1 | Discuss characters of hitayu, &Sukhayu | Cognitive /Recall | МК | Knows how | Demonstration/ discussion/ brainstorming | Viva | F&S | Ι | |
|---------|---|-------------------------------------|-------|--------------|--|---------------------|------|---|--|
| CO 1 | Identifies characters of hitayu, &Sukhayu in healthy individuals | Cognitive / Compreh ension | MK | Knows How | Demo/Practical | Viva | F& S | Ι | |
| Practic | al 4- Dravya Time (Practica | l/ Clinical 6 h | ours) | | | | | | |
| CO1,3 | Define dravya, discuss nature of dravya | Cognitive Recall | MK | Knows how | Demonstration/ discussion/ brainstorming | Viva | F&S | Ι | |
| CO1,3 | Identify pentaelemental nature of Ahar Dravya Aushadh Dravya in given examples | Cognitive/ Comprehe nsion | МК | Shows | Practical/Demon stration | Viva/ Practicals | F& S | Ι | |
| CO1,3 | Identify the Guna and Karma in the given dravya | Cognitive/ Comprehe nsion | МК | Knows how | Practical/Demon stration | Viva/ Practicals | F&S | I | |
| CO1,3 | Categorize the Aushadhi dravya by dominance of Mahabhoot e.g. Parthiv /Jaleeya/ Agney/ Vayaveey/ Akasheey dravya with reasons | Cognitive/ Comprehe nsion | МК | Knows how | Practical/Demon stration | Viva/ Practicals | F&S | I | |
| CO1,3 | Identify the directions in and enlist the content in each direction in your campus. | Cognitive/ Comprehe nsion | МК | Knows how | Practical/Demon stration | Viva/ Practicals | F&S | I | |
| CO1,3 | Discus the concept of Kala as per Ayurved and | Cognitive/ Recall | MK | Knows | Demonstration/ discussion/ | Viva | F&S | Ι | |

| | contemporary sciences. | | | | brainstorming | | | | |
|----------|--|---------------------------------|-----|--------------|---|---------------------|-----|----|--|
| CO1,3 | find the diseases common for different age groups (balyavastha/ tarunyavastha/ vruddhavastha) | Cognitive/ Comprehe nsion | МК | Knows how | Early Clinical Exposure. | Viva/ Practicals | F&S | Ι | |
| Practica | ll - 5(Guna) Time (Practical/ | Clinical 5 hours | s) | | | | | | |
| CO 3 | Discuss Guna, | Cognitive/ Recall | MK | Knows how | Demonstration/ discussion/ brainstorming | Viva | F&S | II | |
| CO 3 | Identify Gunas in given Ahar dravya. | Cognitive/ Comprehe nsion | MK | Knows How | Demo/Practical | Viva/ Practicals | F&S | II | |
| CO 3 | Identify Gunas in given Sharir dravya. | Cognitive/ Comprehe nsion | МК | Knows how | Practical/Demon stration | Viva/ Practicals | F&S | П | |
| CO 3 | Identify the specification of Shabda, Sparsha, Rupa, Rasa, Gandha in Dravy | Cognitive/ Comprehe nsion | МК | Knows how | Demonstration of Dravyas like- kutki, gojihva, guduchi, yashtimadhu, sariva etc. | Viva/ Practicals | F&S | п | |
| CO 3 | find the different therapies based on 5 Sartha Gunas. e.g.Gandha. Shabda, Sparsha. | Cognitive/ Comprehe nsion | DK | knows | Demonstration/ discussion/ brainstorming | Viva/ Practicals | F&S | п | |

| CO 3 | Observe and record the effects of Seasons on Gurvadi gunas in body and nature | Cognitive/ analysis | MK | Knows how | Practical/Demon stration | Viva/ Practicals | F&S | п | |
|---------|---|---------------------------------|-------|--------------|--|---------------------|-----|---|--|
| CO 3 | Correlate Gurvadi gunas with concepts learned in Physics, Chemistry and Biology. | Cognitive/ comprehens ion | МК | Knows how | Demonstration/ discussion/ brainstorming | Viva/ Practicals | F&S | п | |
| CO 3 | Identify the paratva- aparatva in five examples | Cognitive/ Comprehe nsion | МК | Knows how | Practical/Demon stration | Viva/ Practicals | F&S | п | |
| CO 3 | Perform the Sanskar (toyasannikarsha/vasan/ Bhavana) | Psychomot or | МК | Shows | Practical/Demon stration | Viva/ Practicals | F&S | п | |
| CO 3 | Frame the real life situations related to Atma Guna(sukha, dukkha etc) | Cognitive/ Comprehe nsion | МК | Knows how | Demonstration/ discussion/ brainstorming | Viva/ Practicals | F&S | П | |
| Practic | al -6 Karma Time (Practica | al/ Clinical 3 h | ours) | | • | | | | |
| CO 3 | Discuss Karma | Cognitive/ Recall | MK | Knows how | Demonstration/ discussion/ brainstorming | Viva | F&S | п | |
| CO 3 | Classify Karma in given | Cognitive/ Comprehe | MK | Knows how | Demonstration/ Practical | Viva/ Practicals | F&S | Π | |

| | examples (panchakarma/Shastrakarm a) | nsion | | | | | | | |
|---------|--|---------------------------------|------------|--------------|--|---------------------|-----|----|--|
| CO 3 | Illustrate five types of Karma in collage of pictures/ photos | Cognitive/ Comprehe nsion | МК | Knows how | Practical/Demon stration | Viva/ Practicals | F&S | II | |
| CO 3 | compare Karma with concepts learned in Physics, Chemistry etc. | Cognitive/ Comprehen sion | MK | Knows | Practical/Demon stration | Viva/ Practicals | F&S | П | |
| Practic | al – 7 Pratyaksha Praman ' | Time (Practical | l/ Clinica | 1 5 hours) | 1 | | | • | |
| CO4 | Discuss Pratyaksha Praman | Cognitive/ Recall | МК | Knows how | Demonstration/ discussion/ brainstorming | Viva | F&S | II | |
| CO4 | Find identification marks for identification of herbs/ minerals which need Pratyaksha. | Cognitive/ Comprehe nsion | MK | Knows how | Demonstration/ Practical | Viva/ Practicals | F&S | П | |
| CO4 | Note down the factors from Prakruti analysis which need pratyaksh (like- colour, dry skin) | Cognitive/ Comprehe nsion | MK | Knows how | Practical/Demon stration | Viva/ Practicals | F&S | П | |
| CO4 | Discuss the use of pratyaksha in examination of patient and Diagnosis of disease. | Cognitive/ Comprehe nsion | МК | Knows how | ECE/ discussion | Viva/ Practicals | F&S | II | |
| CO4 | identifies with examples of Shabda,(snigdha/ ruksha etc) Sparsha (snigdha/ ruksha etc), | Cognitive/ Comprehe nsion | МК | Knows how | Practical/Demon stration/ Shabd from recordings, (snigdha/ | Viva/ Practicals | F&S | п | |

| | Rupa, Rasa(taste threshold video), Gandha. | | | | ruksha etc) Sparsha by touching or instruments. (snigdha/ ruksha etc), Rupa, Rasa(taste threshold video), Gandha.(intens ity of Smell) | | | | |
|---------|---|---------------------------------|-------------|---------------|---|---------------------|-----|---|---|
| CO4 | Identifies the gunas which can be perceived by one sense (ekendriya) organ and more than one sense organ (Dwiendriya etc). | Cognitive/ Comprehe nsion | МК | Knows how | Demonstration/ discussion/ brainstorming | Viva/ Practicals | F&S | П | |
| Practic | al -8 Pratyaksha Badhakar | Bhav Time (Pr | ractical/ (| Clinical 2 ho | ours) | | | | • |
| CO4 | Discuss Pratyaksha Badhakar Bhav (limitations of pratyaksha.) | Cognitive/r ecall | МК | Knows | Lecture | Viva | F&S | п | |
| CO4 | Identify and classifies Pratyaksha badhakar Bhav in given examples. | Cognitive/ Comprehe nsion | МК | Knows how | Demonstration/ Practical. Ask examples or encourage to identify examples. | Viva/ Practicals | F&S | п | |

| CO4 | Justify the use of various equipment in examination of patient and Diagnosis of disease. | Cognitive/ Comprehe nsion | МК | Knows how | Demonstration/ discussion/ brainstorming/ Video Clips | Viva/ Practicals | F&S | п | | | | |
|---------|--|---------------------------------|----|--------------|--|-----------------------------|-----|---|--|--|--|--|
| Practic | Practical -9 Anuman praman Time (Practical/ Clinical 5 hours) | | | | | | | | | | | |
| CO4 | Discuss Anuman praman | Cognitive/ Recall | MK | Knows | Demonstration/ discussion/ brainstorming | Viva | F&S | Π | | | | |
| CO4 | Identify and classify Anuman praman with type in given examples. | Cognitive/ Comprehe nsion | МК | knows | Demonstration/ Practical, Ask examples or encourage to identify examples. | Practical/De monstration | F&S | п | | | | |
| CO4 | Find and discuss examples of Vyapti (associations)in real life. | Cognitive/ Comprehe nsion | МК | Knows how | Practical/Demon stration. Ask examples or encourage to identify examples. | Practical/De monstration | F&S | П | | | | |
| CO4 | Apply panchavayava vakya for drawing inference in practicals conducted | Cognitive/ Comprehe nsion | МК | Knows how | Practical/Demon stration | Practical/De monstration | F&S | П | | | | |
| CO4 | Identify and discuss Hetvabhas in given examples | Cognitive/ Comprehe nsion | МК | Knows how | Practical/Demon stration. Ask examples or encourage to identify | Practical/De monstration | F&S | п | | | | |

| | | | | | examples. | | | | |
|----------|--|---------------------------------|------------|--------------|---|--------------------------------------|-----|-----|---|
| CO4 | Draw inference in various sciences on the basis of Vyapti. | Cognitive/ recall | MK | knows | Demonstration/ discussion/ brainstorming | Practical/De monstration | F&S | П | |
| Practica | al -10 Samanya Vishesh Sid | ldhant Time (| Practical/ | Clinical 5 h | ours) | | | | - |
| CO 3 | Discuss Samanya vishesh Siddhant | Cognitive/ Rcall | МК | Knows | Demonstration/ discussion/ brainstorming | Viva | F&S | III | |
| CO 3 | Identify and classifies Samanya vishesh Siddhant with type in given examples. | Cognitive/ Comprehe nsion | МК | Knows how | Demonstration/ Practical/Ask examples or encourage to identify examples. | Viva/ Practical | F&S | III | |
| CO 3 | Identify samanyatva and visheshatva among plants in Vanaushadhi udyan | Cognitive/ Comprehe nsion | МК | Knows how | Practical/Demon stration. | Viva/ Practicals | F&S | III | |
| CO 3 | Make a chart/ eChart of food articles and activities to illustrate the relationship of samanya/vishesha with dosha-dhatu-malas. | Cognitive/ Comprehe nsion | МК | Knows how | Practical/Demon stration | Presentation/ Viva/ Practicals | F&S | III | |
| CO 3 | Make a poster seasonal vegetables and fruits which are Samanya/Vishesha with the dosha. | Cognitive/ Comprehe nsion | МК | Knows how | Practical | Presentation /Viva/ Practicals | F&S | III | |
| Practic | al -11 Samavay Time (Prac | tical/ Clinical | 1 hour) | | | | | | |

| CO 3 | Discuss Samavay | Cognitive/ Recall | МК | Knows | Demonstration/ discussion/ brainstorming | Viva | F&S | III | |
|---------|--|---------------------------------|-------------|----------------|--|---------------------|-----|-----|--|
| CO 3 | Mention five real life examples of Nitya and anitya sambandha. | Cognitive/ Comprehe nsion | МК | Knows how | Demonstration/ Practical/ Ask examples or encourage to identify examples. | Viva/ Practical | F&S | ш | |
| Practic | cal -12 Abhav Time (Practica | l/ Clinical 1) | | | | | | | |
| CO 3 | Discuss Abhav | Cognitive/ Recall | МК | Knows how | Demonstration/ discussion/ brainstorming | Viva | F&S | III | |
| CO 3 | Write real life experiences of pragabhava, pradhwamsabhava, atyantabhava and anyonyabhav. | Cognitive/ Comprehe nsion | МК | Shows | Demonstration/ Practical/ Ask examples or encourage to identify examples. | Viva | F&S | ш | |
| Practic | cal - 13 Upman Praman | Time (Practic | al/ (Practi | ical/ Clinical | 1 hour) | | | | |
| CO4 | Discuss Upaman Praman | Cognitive/ Recall | МК | Knows how | Demonstration/ discussion/ brainstorming | Viva/ Practical | F&S | III | |
| CO4 | Illustrate Upamana in practical examples and real life situation. | Cognitive/ Comprehe nsion | МК | Knows how | Demonstration/ Practical/ Ask examples or encourage to identify examples. | Viva/ Practicals | F&S | ш | |
| CO4 | Identify Examples of upamana from Ashtang | Cognitive/ Comprehe | МК | Knows how | Demonstration/ discussion/ | Viva/ Practicals | F&S | III | |

| | Hridaya and Charak Samhita | nsion | | | brainstorming. | | | | |
|------------|--|---------------------------------|------------|--------------|---|-----------------------------|-----|-----|--|
| CO4 | Identify examples in Physics, chemistry biology where Upaman is used | Cognitive/ Comprehen sion | МК | Knows how | Demonstration/ discussion/ brainstorming/ Ask examples or encourage to identify examples. | Viva/ Practicals | F&S | III | |
| Practic | cal -14 Yukti Praman Time | e (Practical/ Cl | inical 1 | hour | | | | | |
| CO4 | Discuss Yukti Praman | Cognitive/ Recall | МК | Knows | Demonstration/ discussion/ brainstorming | Viva | F&S | III | |
| CO4 | Illustrate examples of Yukti in practical life or with your prior learning. | Cognitive/ Comprehe nsion | МК | Knows how | Demonstration/ Practical/ Ask exapmles or encourage to identify examples. | Viva/ Practicals Quiz | F&S | ш | |
| CO4 | Identify Role of Yukti in Nidan, Chikitsa and Anusandhan (research). | Cognitive/ Comprehe nsion | МК | Knows how | ECE/ Demonstration/ | Viva/ Practicals/ PBL | F&S | ш | |
| Practic | cal -15 Various Vadas Tir | ne (Practical/ C | Clinical 3 | hour) | | | | | |
| CO5 CO2 | Discuss Satkaryavad | Cognitive/ Recall | МК | Knows how | Demonstration/ discussion/ brainstorming | Viva | F&S | III | |
| CO5 CO2 | Justify Satkaryavad through real life | Cognitive/ comprehens ion | MK | Knows how | Demonstration/ Practical/ /Ask examples or | Viva/ Practicals/ PBL | F&S | III | |

| | examples/ examples from prior learning | | | | encourage to identify examples. | | | | |
|-------------|---|---------------------------------|-------------|--------------|--|---------------------|-----|-----|--|
| CO5 CO2 | Justify Parinamvad through real life examples/ examples from prior learning | Cognitive/ comprehens ion | МК | Knows how | Practical/Demon stration//Ask examples or encourage to identify examples. | Viva/ Practicals | F&S | III | |
| CO5 CO2 | Justify Pakajotpatti through real life examples/ examples from prior learning | Cognitive/ comprehens ion | МК | Knows how | Practical/Demon stration//Ask examples or encourage to identify examples. | Viva/ Practicals | F&S | III | |
| CO5 CO2 | Justify Swabhavoparamvad through real life examples/ examples from prior learning | Cognitive/ comprehens ion | МК | Knows how | Demonstration/ discussion/ brainstorming/ /Ask examples or encourage to identify examples. | Viva/ Practicals | F&S | III | |
| CO5 CO2 | Justify Arambhvad through real life examples/ examples from prior learning | Cognitive/ comprehens ion | МК | Knows how | Demonstration/ Practical//Ask examples or encourage to identify examples. | Viva/ Practicals | F&S | Ш | |
| Practic | al -16 Cause and Effect the | ory Time (Pra | actical/ Cl | inical 2 hou | urs) | | | | |
| CO5, CO2 | Discuss Cause and effect theory | Cognitive/ comprehen d | МК | Knows | Demonstration/ discussion/ brainstorming | Viva/ Quiz | F&S | III | |
| CO5 CO2 | Identify Samavayi, Asamavayi and Nimitta | Cognitive/ Comprehe | MK | Knows How | Demonstration/ Practical/Ask | Viva/ Practicals | F&S | III | |

| | karan of a Karya in real life examples/ examples withprior learning | nsion | | | examples or encourage to identify examples. | | | | |
|-----|--|---------------------------------|----|--------------|--|--------------------------------|-----|-----|--|
| CO5 | Find out use of cause effect theory in other sciences. | Cognitive/ comprehens ion | МК | Knows how | Practical/Demon stration | Viva/ Practicals/ Debate | F&S | III | |
| CO5 | Represent cause and effect schematically in any examples | Cognitive/ comprehens ion | МК | Knows how | Practical/Demon stration | Viva/ Practicals | F&S | III | |
| CO5 | Assess the 10 factors of Charakokta Karyakarana bhava regarding any task consider the task as karya | Cognitive/ analysis | МК | Knows how | Practical/Demon stration | Viva/ Practicals | F&S | ш | |
| CO5 | Write theories of evolution you learned within and other than syllabus. | Cognitive/ comprehens ion | MK | Knows how | Practical/Demon stration | Viva/ Practicals | F&S | Ш | |

Table 5: Non Lecture Activities Course AyUG-PV

| | List non lecture Teaching-Learning methods * | No of Activities |
|----|--|------------------|
| 1 | GROUP DISCUSSION | 20 |
| 2 | PRACTICALS AND DEMONSTRATIONS | 45 |
| 3 | ACTIVITY BASED LEARNING | 10 |
| 4 | PROBLEM BASED LEARNING | 10 |
| 5 | ENQUIRY BASED LEARNING | 8 |
| 6 | CASE BASED LEARNING | 6 |
| 7 | GAME BASED LEARNING | 8 |
| 8 | FLIPPED CLASSROOMS | 6 |
| 9 | DEBATE | 8 |
| 10 | SEMINARS | 6 |
| 11 | TUTORIALS | 5 |
| 12 | ROLE PLAY | 5 |
| 13 | SELF DIRECTED LEARNING | 3 |
| | | 140 |

 Table 5- Course AyUG-PV Non Lecture Activities- 140

Table 6: Assessment Summary AyUG-PV

6 A - Number of Papers and Marks Distribution

| | | | | | Pra | actical/(| Clinical Assess | ment | | Grand |
|---|-------|--------------|--------|--------|------------------------|-----------|-----------------|------|--------------|-------|
| | S.No. | Subject Code | Papers | Theory | Practical/ Clinical | Viva | Electives | IA | Sub Total | Total |
| _ | 1 | AvUG-PV | 2 | 200 | 100 | 60 | 10 (Set-FB) | 30 | 200 | 400 |
| | 1. | AyUG-F V | Z | 200 | 100 | 00 | 10 (Sel-FD) | 50 | 200 | 400 |

6 B - Scheme of Assessment (formative and Summative)

| | PROFESSIONAL | DURATION OF PROFESSIONAL COURSE | | | | | | |
|--------|------------------------|--|------------------------------|------------------------------|--|--|--|--|
| SR.NO. | PROFESSIONAL COURSE | First Term (1-6 Months) | Second Term (7-12 Months) | Third Term (13-18 Months) | | | | |
| 1 | First | 3 PA & First TT | 3 PA & Second TT | 3 PA & UE | | | | |

PA: Periodical Assessment; TT: Term Test; UE: University Examinations

| | | PERIC | DDICAL A | ASSESSMEN | Т* | TERM TEST** | | TERM ESSMENT | | | |
|-----------------|------------|--|------------|-----------------|---------------------|-----------------|------------|-----------------|--|--|--|
| | Α | В | С | D | Ε | F | G | Н | | | |
| TERM | | | | | Converted to | Term Test | Sub | Term | | | |
| | 1 (15 | 2 (15 | 3 (15 | Average | 30 | (Marks | Total | Assessment | | | |
| | Marks) | Marks) | Marks) | (A+B+C/3) | Marks | converted | _/60 | (/30) | | | |
| | | | | | (D/15)*30) | to 30) | Marks | (/30) | | | |
| FIRST | | | | | | | E+F | (E+F)/2 | | | |
| SECOND | | | | | | | E+F | (E+F)/2 | | | |
| THIRD | | | | | | NIL | | E | | | |
| Final IA | | Avera | ge of Thre | ee Term Asse | essment Marks a | s Shown in 'H | I' Colum | n. | | | |
| | Maximum | n Marks in | Parenthese | es | | | | | | | |
| | *Select ar | n Evaluatio | n Methods | which is appr | opriate for the obj | jectives of Top | ics from t | he Table 6 D | | | |
| | for Peroad | dic assessm | nent. Cond | luct 15 marks a | assessment and en | ter marks in A | , B, and C | | | | |
| | ** Condu | ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 | | | | | | | | | |
| | Marks) | | | | | | | | | | |
| | Then con- | vert to 30 r | narks. | | | | | | | | |

6 C - Calculation Method for Internal assessment Marks (30 Marks)

6 D -Evaluation Methods for Periodical Assessment

| S. No. | Evaluation Methods |
|--------|---|
| 1. | Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3. |
| 2. | Practical / Clinical Performance |
| 3. | Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions) |
| 4. | Open Book Test (Problem Based) |
| 5. | Summary Writing (Research Papers/ Samhitas) |
| 6. | Class Presentations; Work Book Maintenance |
| 7. | Problem Based Assignment |
| 8. | Objective Structured Clinical Examination (OSCE), |
| | Objective Structured Practical Examination (OPSE), |
| | Mini Clinical Evaluation Exercise (Mini-CEX), |
| | Direct Observation of Procedures (DOP), |
| | Case Based Discussion (CBD) |
| 9. | Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or |
| | Other Activities which may be decided by the department). |
| 10. | Small Project |
| 11. | AyUG-PV Specific |
| | Test on Topics in list of practicals. |

6 E- Paper Layout

I PROFESSIONAL BAMS EXAMINATIONS

AyUG-PV

Paper-I

Time: 3 HoursMaximum Marks: 100INSTRUCTIONS: All questions compulsoryTOTAL MARKS 100

| | | Number of Questions | Marks per question | Total Marks |
|-----|---------------------------------|------------------------|--------------------|-------------|
| Q 1 | Multiple Choice Questions (MCQ) | 20 | 1 | 20 |
| Q 2 | Short answer questions (SAQ) | 8 | 5 | 40 |
| Q 3 | Long answer questions (LAQ) | 4 | 10 | 40 |
| | | | | 100 |

I PROFESSIONAL BAMS EXAMINATIONS

AyUG PV

Paper-II

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory TOTAL MARKS 100

| | | Number of Questions | Marks per question | Total Marks |
|-----|---------------------------------|------------------------|--------------------|-------------|
| Q 1 | Multiple Choice Questions (MCQ) | 20 | 1 | 20 |
| Q 2 | Short answer questions (SAQ) | 8 | 5 | 40 |
| Q 3 | Long answer questions (LAQ) | 4 | 10 | 40 |
| | | | | 100 |

6 F- Disribution of Theory Exam

| | Paper I | | | D | | |
|----|--------------------------------|------|-------|-------------------|-----------------|--------|
| | | | | Type of Questions | | |
| | | | | "Ү | es" can be aske | ed. |
| | | | | "No" : | should not be a | sked. |
| | Α | B | С | MCQ | SAQ | LAQ |
| | List of topics | Term | Marks | (1 mark) | (5 marks) | (10 |
| | | | | | | marks) |
| 1 | Ayurveda nirupana | Ι | 25 | Yes | Yes | Yes |
| 2 | Padartha and darshana nirupana | Ι | | Yes | Yes | Yes |
| 3. | Dravya vijnaneeyam | II | 48 | Yes | Yes | Yes |
| 4. | Guna vijnaneeyam | II | | Yes | Yes | Yes |
| 5. | Karma vijnaneeyam | II | | Yes | Yes | Yes |
| 6. | Samanya vijnaneeyam | III | 27 | Yes | Yes | Yes |
| 7. | Vishesha vijnaneeyam | III | | Yes | Yes | Yes |
| 8. | Samavaya vijnaneeyam | III | | Yes | Yes | No |
| 9 | Abhava vijnaneeyam | III | | Yes | Yes | No |

| | Paper II | | | | D | |
|----|-----------------------------|------|-------|-------------------|--------------|--------|
| | - | | | Type of Questions | | |
| | | | | "Yes" | can be aske | ed. |
| | | | | "No" sho | uld not be a | sked. |
| | A | В | С | MCQ | SAQ | LAQ |
| | List of Topics | Term | Marks | (1 Mark) | (5 | (10 |
| | | | | | Marks) | Marks) |
| 1 | Pariksha | Ι | 26 | YES | YES | YES |
| 2 | Aptopdesha Pariksha/Pramana | Ι | 20 | YES | YES | YES |
| 3. | Pratyaksha Pariksha/Pramana | II | 42 | YES | YES | YES |
| 4. | Anumanapariksha/Pramana | II | 42 | YES | YES | YES |
| 5. | Yuktipariksha/Pramana | III | | YES | YES | NO |
| 6. | UpamanaPramana | III | 32 | YES | YES | NO |
| 7. | Karya- Karana Siddhanta | III | 52 | YES | YES | YES |
| | | | 1 | | | |

6 G- Question paper blue print

Paper I –

| A | В | С |
|-----------------|--|---------------------------|
| Question Sr. No | Type of Question | Question Paper Format |
| .Q1 | Multiple choice Questions | 1. Topic number 1 |
| | (MCQ) | 2. Topic number 2 |
| | 20 Questions | 3. Topic number 3 |
| | 20 Questions | 4. Topic number 4 |
| | 1 mark each | 5. Topic number 5 |
| | | 6. Topic number 6 |
| | All compulsory | 7. Topic number 7 |
| | | 8. Topic number 8 |
| | | 9. Topic number 9 |
| | (Naust Know 15 MCO | 10. Topic number 2 |
| | (Must Know 15 MCQ | 11. Topic number 3 |
| | Desirable to know 3 MCQ | 12. Topic number 4 |
| | Nice to know 2 MCQ) | 13. Topic number 5 |
| | | 14. Topic number 6 |
| | | 15. Topic number 7 |
| | | 16. Topic number 9 |
| | | 17. Topic number 1 |
| | | 18. Topic number 2 |
| | | 19. Topic number 3 |
| | | 20. Topic number 4 |
| Q2 | Short answer Questions | 1. Topic no.1 |
| | (SAQ) | 2. Topic no.2 |
| | Eight Questions | 3. Topic no.3 |
| | 5 Marks Each All compulsory | 4. Topic no.4 |
| | An comparsory | 5. Topic no.5 |
| | (Must know 7 . | 6. Topic no.6/ Topic no.7 |
| | Desirable to know 1 | 7. Topic no.8/ Topic no.9 |
| | No Questions on Nice to know.) | 8. Topic no.3/ Topic no.4 |
| Q3 | Long answer Questions | 1. Topic no.1/ Topic no.2 |
| | (LAQ) Four Questions | 2. Topic no.3 |
| | 10 marks each | 3. Topic no.4/Topic no.5 |
| | All compulsory (All questions on Must to know. No | 4. Topic no.6/ Topic no.7 |
| | Questions on | |
| | Nice to know and Desirable to know | .) |

Paper II

| A Paper II | В | С |
|-----------------|---------------------------------------|---|
| Question Sr. No | Type of Question | Question Paper Format |
| Q1 | Multiple choice Questions | 1. Topic number 1 |
| | (MCQ) | 2. Topic number 2 |
| | 20 Questions | 3. Topic number 3 |
| | 20 Questions | 4. Topic number 4 |
| | 1 mark each | 5. Topic number 5 |
| | | 6. Topic number 6 |
| | All compulsory | 7. Topic number 7 |
| | | 8. Topic number 1 |
| | | 9. Topic number 2 |
| | | 10. Topic number 3 |
| | (Must know 15 MCQ | 11. Topic number 4 |
| | Desirable to know 3 MCQ | 12. Topic number 5 |
| | Nice to know 2 MCQ) | 13. Topic number 6 |
| | | 14. Topic number 7 |
| | | 15. Topic number 1 |
| | | 16. Topic number 2 |
| | | 17. Topic number 318. Topic number 4 |
| | | 19. Topic number 7 |
| | | 20. Topic number 4 |
| Q2 | Short answer Questions | 1. Topic no.1 |
| Q2 | (SAQ) | - |
| | Eight Questions | 2. Topic no.2 |
| | 5 Marks Each | 3. Topic no.3 |
| | All compulsory | 4. Topic no.4 |
| | | 5. Topic no.5 |
| | (Must know 7 . Desirable to know 1 | 6. Topic no.6 |
| | No Questions on Nice to know.) | 7. Topic no.7 |
| | | 8. Topic no.3/ Topic no.4 |
| Q3 | Long answer Questions | 1. Topic no.1/ Topic no.2 |
| | (LAQ) Four Questions | 2. Topic no.3 |
| | 10 marks each | 3. Topic no.4 |
| | All compulsory | 4. Topic no.7 |
| | (All questions on must know | |
| | No Questions on Nice to know and | |
| | Desirable to know) | |

6 H Distribution of Practical Exam

Practical – (Practical 100 +Viva 60+Elective 10+ IA 30) =(Total 200 Marks)

| SN | Heads | Marks |
|----|---|-------|
| 1 | Practical (Total Marks 100) | 100 |
| a. | Spotting (4 Spots) Problem based on Principles in PV. | 20 |
| | Topics | |
| | Pratyaksha praman/Pratyaksha Badhakar Bhav Vada (Any one) Abhav/Samavay Upaman/Yukti | |
| b. | Journal of Activity book/ Projects. | 20 |
| | (Viva on journal and communication skill) | |
| c. | Practical I (10 Marks Each) | 30 |
| | Identify panchamahabhoot dominance in the given dravya Identify Samanya- Vishesh in the given dravyas Identify the Gunas in the given dravyas (Use different dravys for different students.) | |
| d. | Practical II (Problem based questiones/ Situations)(10 Marks Each)(Any three) 1. Identify and explain the Karya Karan with types in given problem 2. Frame and Write Panchavayav vakya for the given anuman. 3. Identify Vyapti, Paksh, Sadhya, Hetu, Pakshadharmata, Sapaksha, Vipaksha in the give example. 4. Identify and explain Hetvabhas in given example. 5. Identify the vada applicable in given example.(any one vada.) 6. Identify Upama, Sajna- sajni sambhandha in given example. | 30 |
| 2 | Viva Voce | 60 |
| | Recitation of Shloka: 10 marks (sutras in Tarka sangraha, Samhitas, other) | |
| | Questions on Darshan 10 marks | |
| | Question on Dravya/ Guna/ Karma. 10 marks | |
| | Question on Samany/vishesh/samavaya/ Abhav 10 Marks | |
| | Question on one Praman 10 Marks | |

| | Question on Karya karan bhav 10 Marks. | |
|---|--|-----|
| 3 | Internal Assessment | 30 |
| 4 | Electives | 10 |
| | | 200 |

7. References /Resourses

Reference Books

PadarthaVignana books

- 1. Padarthavigyan
- 2. AyurvediyaPadarthaVigyana
- 3. Ayurved Darshana
- 4. PadarthaVigyana
- 5. PadarthaVigyana
- 6. SankhyatantwaKaumadi
- 7. Psycho Pathology in Indian Medicine
- 8. CharakEvumSushrutkeDarshanik Vishay
- 9. AyurvediyaPadarthaVigyana
- 10. PadarthaVigyana
- 11. Post graduate text book of Samhitha&Sidhanta
- 12 Padartha Vigyana
- 13. AyurvediyaPadarthaVigyana
- 14. AyurvediyaPadartha Vigyan Parichaya
- 15. AyurvediyaPadartha Darshan
- 16. Scientific Exposition of Ayurveda
- 17 Padarthavignana and Ayurveda itihasa
- 18 Essentials of padarthavignana
- 19 Padarthavignanevam Ayurveda Itihas
- 20. AyurvediyaPadarthavignana
- 21 AyurvediyaMoulikaSiddhanta

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COURSE CURRICULUM FOR FIRST PROFESSIONAL BAMS (PRESCRIBED BY NCISM)



SAMSKRITAM EVAM AYURVED ITHIHAS (SUBJECT CODE-AyUG-SN & AI)` SANSKRIT AND HISTORY OF AYURVEDA (Applicable from 2021-22 batch onwards for 5 years or until further notification by NCISM, whichever is earlier)



BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110058



NCISM I professional Ayurvedcharya (BAMS)

SAMSKRITAM EVAM AYURVED ITHIHAS (SUBJECT CODE-AyUG-SN & AI) SANSKRIT AND HISTORY OF AYURVEDA

(Applicable from 2021-22 batch onwards for 5 years or until further notification by NCISM, whichever is earlier)

Summary

| AyUG-SN & AI Total number of Teaching hours: 300 | | | | | |
|---|----------|-----------|-----------|--|--|
| Lecture hours (LH) – Theory | | | 100 Hours | | |
| Paper I | 50 Hours | | | | |
| Paper II (Sanskrit 40+ AI 10) | 50 Hours | | (LH) | | |
| Non-Lecture hours (NLH) – Theory | | | | | |
| Paper I | 74 Hours | 140 Hours | 200 Hours | | |
| Paper II (Sanskrit 46+ AI 20) | 66 Hours | | (NLH) | | |
| Non-Lecture hours (NLH) – Practical | | 60 Hours | | | |

| | Examination (Papers & | Mark Distribu | ition) | | | |
|-------------|--|-------------------------|-----------|----------------|-------|--|
| Item | Theory Component Marks AyUG-SN & AI | rks Practical Component | | | Marks | |
| | | Practical | Viva | Elective | IA | |
| Paper I | 100 Sanskrit 100 Marks | | | | | |
| Paper II | 100 Sanskrit 80 Marks and Ayurved Itihas 20 Marks | | 75* | 10 (Set-FA) | 15 | |
| Sub-Total | 200 100 | | | | | |
| Total marks | 300 | | | | | |
| | *Viva voce examination shall be f | or Sanskrit and | not for A | yurved Ithiha | sa | |

Preface

Sanskrit is an ancient still most scientific language of India. The ancient literature created about various subjects in this region is in Sanskrit. The richness of Sanskrit language is accepted by intellectuals across the world. The literature of Ayurveda is also found in Sanskrit. Without understanding the language of the science, it is really hard to read and understand the terminologies, theories, principles of the science given in the Samhitas. Many of the students coming for the course partly introduced or not at all introduced to the Sanskrit language previously. Hence for understanding Ayurveda in its originality, Sanskrit is one of subject in First year BAMS curriculum. Similar to any language Listening, Reading, Writing and Speaking are the four pillars of a sanskrit. Reading, writing and understanding samhitas will be emphasized and listening and speaking can give confidence to the student and enhance the study.

Learning a language just by studying the theory is not enough hence curriculum of Sanskrit is designed by combining traditional Sanskrit teaching with new teaching health science education technologies.

This changed curriculum involves many new teaching learning techniques and assessment methods. Based on the course outcomes, curriculum is devided in papers. Importantent objectives are appropriately planned as per domains of learning. Supported by interactive methods of teaching and learning by using Audio-visual aids. There will be practicals and demonstrations based on Language Lab activities for enhancement of practical use of Sanskrit. Practicals can give a chance of acquiring skills by practice of use of Sanskrit in Samhitadhyayan. Application of learned Sanskrit will be practically ensured by reading newly introduced Ashtang Hrudayam. Students can experience of application of Sanskrit Grammer in Samhitadhyayan. Introduction to Niruktis, dictionaries and Shabdakoshas can motivate students to derive and understand meanings from Sanskrit verses on their own. As this is a language, learning to communicate in this language is very much essential. Addition of Sanskrit communication as a part of curriculum is for overcoming the fear of learning a new language.

History of Ayurved is also added in second part of the Sanskrit. As an ancient science, its gradual development. Important milestones, different Schools of thoughts, impotant traditions, followers in traditions, thier contribution etc will be introduced in History. Contribution of Scholars of modern era, Important institutes and globalization are few more points for history. Activity based learning and objective assessment are the most important changes to change perception towards study of history.

Index

| Course Code and Name of Course | 5 |
|---|----|
| AyUG SN & AI | 5 |
| Table 1- Course learning outcomes and matched PO. | 5 |
| Sanskrit | 5 |
| Ayurved Itihas | 5 |
| Table 2 : Contents of Course AyUG SN & AI | 6 |
| Paper I Sanskrit | б |
| Paper II – Part A Sanskrit | 9 |
| Paper II – Part B – Ayurved Itihas | 11 |
| Table 3: Learning objectives (Theory) of Course AyUG-SN & AI | 13 |
| Paper I – Sanskrit | |
| Paper II Part A - Sanskrit Learning Objective | 23 |
| PAPER II Part B Ayurved Itihas | 26 |
| List of Practicals | |
| Table 4: Learning objectives (Practical) of AyUG- SN & AI | |
| Sanskrit Practical | |
| Table 5: Non Lecture Activities Course AyUG- SN & AI | |
| Ayurved Itihas | |
| Table 6: Assessment Summary | |
| 6 A-Number of Papers and Marks Distribution | |
| 6 B - Scheme of Assessment (formative and Summative) | |
| 6 C - Calculation Method for Internal assessment Marks (15 Marks) | |
| 6 D- Evaluation Methods for Periodical Assessment | 40 |
| 6 E- Paper Layout | 41 |
| PAPER-I | 41 |
| PAPER-II | 41 |
| 6 F- Disribution of Theory Exam | 42 |
| Paper I: Sanskrit | 42 |
| Paper II | 46 |
| Part A Sanskrit | 46 |
| Part B | 47 |
| 6 G- Question paper blue print | 47 |
| Paper I – Sanskrit | 47 |
| Paper II – Sanskrit and Ayurved Itihas | 48 |
| 6 H - Distribution of Practical Exam | 50 |
| 7. References/ Resourses | 51 |
| Sanskrit | 51 |
| Ayurved Itihas | |

Course Code and Name of Course

| Course code | Name of Course |
|--------------|-----------------------------|
| AyUG SN & AI | Sanksrit and Ayurved Itihas |
| | |

AyUG SN & AI Course

Table 1- Course learning outcomes and matched PO.

| SR1 | Course learning outcomes and matched PO. A1 | B1 |
|---------|---|---------------------------------|
| СО | Course learning Outcome (CO) AyUG SN & AI | Course learning |
| No | At the end of the course AyUG SN & AI, the student should be able | outcomes matched with |
| | to- | program learning |
| | | outcomes. |
| Sanskri | t | |
| | Read and recite Prose (गद्य:) and poem (पद्य:) with the appropriate | |
| CO1 | accent (उच्चारणस्थानानि तथा बाह्याभ्यरप्रयत्नानि). | PO-5, PO-6, PO-7, |
| | उच्चारणस्थानानां बाह्यभ्यन्तरप्रयत्नानां च सहाय्येन पाठने तथा लेखने सामर्थ्यम् | PO-8, PO-9 |
| CO 2 | Apply various Technical Terms in Ayurveda (परिभाषाशब्दा:), Nouns & Pronouns (नामरूपाणि तथा सर्वनामरूपाणि), Verbs (धातुरूपाणि), suffixes (प्रत्यया:), Grammatical Terms (संज्ञा), Syntax (संधी) and Compounds (समासा:) from Sanskrit Grammar for enhanced interpretation of Ayurveda texts (आयुर्वेद संहिता:). परिभाषाशब्देषु नामरूपेषु सर्वनामरूपेषु क्रियापदेषु प्रत्ययेषु संज्ञासु सन्धिषु समासेषु च ज्ञानं तद्द्वाराआयुर्वेदसंहितासु अर्थावबोधनम् प्रायोगिकविज्ञानञ्च | PO-5, PO-7, PO-9 |
| CO 3 | Discriminate and interpret the Cases & meanings (विभाक्त्यर्थ) used in various verses of Ayurveda texts (आयुर्वेद संहिता). कारकविभक्त्यर्थादिषु परिज्ञानं तथा आयुर्वेदसंहितासु तेषां प्रयोगपरिचयञ्च | PO-5, PO-7, PO-9 |
| CO 4 | Formulate the Prose order (अन्वय:) of Slokas/Sutras in Ayurveda Textbooks (संहिता) to derive the meaning (वाच्यार्थ), to determine the Scientific Meaning (शास्त्रार्थ) and to Translate (Regional or other language). अन्वयलेखने वाच्यार्थावबोधने शास्त्रार्थावबोधने च सामर्थ्यं अनुवादनपाटवञ्च | PO-5,PO-6, PO-7, PO- 8, PO-9 |
| CO 5 | Interpret the Synonyms (पर्यायाः) and Derivations (निरुक्ति) of Ayurveda Terms using samskrita dictionaries (संस्कृत शब्दकोश). कोशग्रन्थानां सहाय्येन आयुर्वेदे विद्यमानानां पदानां तेषां पर्यायानाञ्च निरुक्तिपूर्वक परिज्ञानं तेषां प्रयोगे परिचयञ्च। | PO-5, PO-7, PO-9 |
| CO 6 | Speak, Write and Summarize and Express in Samskrit (संस्कृतम्). संस्कृतभाषायां भाषणे लेखने सङ्क्षिप्य लिखने अर्थप्रकाशने च सामर्थ्यम्। | PO-5,PO-6, PO-7, PO- 8, PO-9 |
| CO 7 | Develop the ethical responsibility towards the profession, society and human being. सामाजिक- औद्योकिक-मानुषिक धर्मबोधता | PO-6 & PO-8 |
| Ayurveo | l Itihas | |
| CO 8 | Analyse and explain the important milestones in the history of Ayurveda | PO-1 |
| CO 9 | Appreciate the status of Ayurveda in different time periods and Contributions made by different Acharyas to Ayurveda. | PO-1 |

| Sr | A2 | B2 | C2 | D2 | E2 |
|-----|--|---------------------|-------|----------------|------------------|
| No | List of Topics AyUG-SN & AI | Term | Marks | Lecture | Non- |
| | Paper I | | | hours | Lecture hours |
| Pap | er I Sanskrit | | | | |
| 1 | संस्कृतवर्णानाम् परिचयः — माहेश्वरसूत्राणि, उच्चारणस्थानानि, बाह्यप्रयत्नानि, | Ι | | | 10 |
| | अभ्यन्तर प्रयत्नानि | | 05 | 3 | 10 |
| 2 | संज्ञा- | | | | |
| | 2.1 - संयोग:, संहिता, ह्रस्वदीर्घप्लुत:, अनुनासिक:, पदम्, धातु:, | 21 T | | | |
| | उपसर्ग:, गुण:, वृद्धि: [विस्तरेण पाठनम् - Detailed teaching] | 2.1 - I 2.2 - II | 05 | 05 | - |
| | 2.2 - इत्, लोप:, प्रत्याहार:, उदात्त:, अनुदात्त:, स्वरित:, सवर्ण:, | 2.2 - 11 | | | |
| | निपात:, प्रगृह्यम्, [सङ्क्षिप्य पाठनम् – Brief teaching] | | | | |
| 3. | उपसर्गा:- उपसर्गा: क्रियायोगे | | | | |
| | प्र, परा, अप, सम्, अनु, अव, निस्, निर्, दुस्, दुर्, वि, आङ्, नि, अपि, | II | 05 | 02 | 03 |
| | अधि, अति, सु, उत्, अभि, प्रति, परि, उप | | | | |
| 4. | अव्ययानि | | | | |
| | 4.1 - च अपि खलु हि तु किल ननु वा च एव | | | | |
| | 4.2- पुन: विना उच्चै: ऋते एवम् सह सार्धम् युगपत् यथा | | | I -01 II-01 | |
| | —तथा यावत्-तावत् इति यदा-तदा यदि-तर्हि साकम् न कुत्र कति | I A II B | | | |
| | कुत: किमर्थम्, कियत् इह अत्र तत्र सर्वत्र अन्यत्र कुत्र एकत्र | | 5 | | I-0 |
| | सदा अन्यथा एकथा | III C | | | II-0 |
| | [विस्तरेण पाठनम् - detailed teaching] | | | | III-03 |
| | A) Identify अव्ययानि | | | | |
| | B) Explain the meaning with reference to the contextC) Construct the sentences using अव्ययानि | | | | |
| 5. | कारकप्रकरणम् — | | | | |
| | कर्तृकारकम् , कर्मकारकम् , करणकारकम् , सम्प्रदानकारकम्, अपादान | | | | |
| | कारकम्, अधिकरणकारकम् , सम्बन्ध:, उपपदविभक्ति: | | | | |
| | सूत्रसहितपाठनं परं परीक्षायां सूत्रव्याख्यानादि प्रश्नानि न प्रष्टव्यानि | ΙA | | | |
| | A) Discriminate the विभक्ति and their meaning. | II B | 15 | I- 05 | II-05 |
| | B) Identify the karakas from Ayurveda texts like करणम् कारणम् | III C, D | 15 | 1- 05 | III-05 |
| | C) Construct sentences | | | | |
| | D) Translate sentences from English to Sanskrit & | | | | |
| | from Sanskrit to English. | | | | |
| 6. | सन्धि: | | | | |
| | 6.1 - अच् सन्धि:/स्वरसन्धि: - यण् सन्धि -इको यणचि, गुण | | | | |
| | सन्धिः=आद्रुण: वृद्धिसन्धिः-वृद्धिरेचि, अयवायाव सन्धिः - | II | 15 | 10 | 10 |
| | एचोऽयवायव:/वान्तो यि | | | | |

Table 2 : Contents of Course AyUG SN & AI

| | प्रत्यये, लोप सन्धि:-लोप: शाकल्यस्य, पररूपसन्धि:-एङि पररूपम्, | | | | |
|----|---|---|----|----|----|
| | प्रत्यय, लोप सान्यलोप. शोकल्पस्य, पररूपसान्यलोड पररूपम्, पूर्वरूपसन्धि- एङ: पदान्तादति, प्रकृतीभाव- सर्वत्र विभाषा गोः , प्लुत | | | | |
| | | | | | |
| | प्रगृह्य अचि नित्यम् सूत्रसहितपाठनं परं परीक्षायां सूत्रव्याख्यानादि प्रश्नानि न प्रष्टव्यानि | | | | |
| | | | | | |
| | 6.2 - हल्सन्धि: /व्यञ्जनसन्धि: - श्चुत्वसन्धि:- स्तो: श्चुना श्चु:, ष्टुत्वसन्धि:- | | | | |
| | ष्टुना ष्टु:, जश्त्व सन्धि:-झलां जशो/न्ते, अनुनासिकसन्धि:- | | | | |
| | यरोऽनुनासिकेऽनुनासिको वा/प्रत्यये भाषायां नित्यम्, परसवर्णसन्धि:-तोर्लि:/वा | | | | |
| | पदान्तस्य, चर्त्वसन्धिः | | | | |
| | खरि च, पूर्वसवर्णसन्धि:-झयोऽहोऽन्यतरस्याम्, छुत्वसन्धि: | | | | |
| | शश्छोऽटि/ छत्वममीति वाच्यम्, अनुस्वारसन्धि:- मोऽनुस्वार:, तुगागमसन्धि:- | | | | |
| | शि तुक्/छे च/पदान्ताद्वा, रुत्वआदेशसन्धि:-नश्छव्यप्रशान् | | | | |
| | सूत्रसहितपाठनं परं परीक्षायां सूत्रव्याख्यानादि प्रश्नानि न प्रष्टव्यानि | | | | |
| | 6.3 - विसर्गसन्धि: - रुत्वसन्धि:-ससजुषो रु:, उत्वसन्धि:-अतो | | | | |
| | रोरप्लुदादप्लुते/हशि च, रो रि, भो भागो अघो अपूर्वस्य योऽशि , रोऽसुपि , | | | | |
| | एतत्तदोः सुलोपोऽकोरनञ् समासे हलि, सोऽचि लोपे चेत् पादपूरणम् | | | | |
| | सूत्रसहितपाठनं परं परीक्षायां सूत्रव्याख्यानादि प्रश्नानि न प्रष्टव्यानि | | | | |
| | 6.4 रुत्वप्रकरणसन्धि:- [ँसङ्क्षिप्य पाठनम् – Brief teaching] | | | | |
| | सम: सुटि, कानाम्रेडिते च, अत्रानुनासिको पूर्वस्य तु | | | | |
| | वा,अनुनासिकात्परोऽनुस्वार:, खरवसानयोर्विसर्जनीय:, विसर्जनीयस्य | | | | |
| | सः,सम्पुङ्कानां सो वक्तच्व्य: | | | | |
| 7. | समास | | | | |
| | 7.1 - अव्ययीभावसमास: - 7.1.1 - अव्ययम् | | | | |
| 1 | 7.1 - अप्ययांगायसंगास 7.1.1 - अप्ययंग | | | | |
| | 7.1 - जज्जयानायसनास 7.1.1 - जज्जयन् विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप | | | | |
| | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप | | | | |
| | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ | | | | |
| | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या:/ तृतीयासप्तम्योर् | | | | |
| | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या:/ तृतीयासप्तम्योर् बहुलम्/अव्ययीभावे चाकाले | | | | |
| | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या:/ तृतीयासप्तम्योर् बहुलम्/अव्ययीभावे चाकाले 7.2 तत्पुरुष समास: - द्वितीया श्रितातीतपतितगतात्यस्तप्राप्तापन्नै:, तृतीया | Π | 15 | 09 | 10 |
| | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या:/ तृतीयासप्तम्योर् बहुलम्/अव्ययीभावे चाकाले 7.2 तत्पुरुष समास: - द्वितीया श्रितातीतपतितगतात्यस्तप्राप्तापन्नै:, तृतीया तत्कृतार्थेन गुणवचनेन, कर्तृकरणे कृता बहुलम्, चतुर्थी तदर्थार्थ | п | 15 | 09 | 10 |
| | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या:/ तृतीयासप्तम्योर् बहुलम्/अव्ययीभावे चाकाले 7.2 तत्पुरुष समास: - द्वितीया श्रितातीतपतितगतात्यस्तप्राप्तापन्नै:, तृतीया तत्कृतार्थेन गुणवचनेन, कर्तृकरणे कृता बहुलम्, चतुर्थी तदर्थार्थ बलिहितसुखरक्षितै:, पञ्चमीभयेन, षष्ठी, सप्तमीशौण्डै:, विशेषणं | Π | 15 | 09 | 10 |
| | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या:/ तृतीयासप्तम्योर् बहुलम्/अव्ययीभावे चाकाले 7.2 तत्पुरुष समास: - द्वितीया श्रितातीतपतितगतात्यस्तप्राप्तापन्नै:, तृतीया तत्कृतार्थेन गुणवचनेन, कर्तृकरणे कृता बहुलम्, चतुर्थी तदर्थार्थ बलिहितसुखरक्षितै:, पञ्चमीभयेन, षष्ठी, सप्तमीशौण्डै:, विशेषणं विशेष्येणबहुलम्, उपमानानि सामान्यवचनै:, नञ्, कर्मधारय, द्विगु:, | Π | 15 | 09 | 10 |
| | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या:/ तृतीयासप्तम्योर् बहुलम्/अव्ययीभावे चाकाले 7.2 तत्पुरुष समास: - द्वितीया श्रितातीतपतितगतात्यस्तप्राप्तापन्नै:, तृतीया तत्कृतार्थेन गुणवचनेन, कर्तृकरणे कृता बहुलम्, चतुर्थी तदर्थार्थ बलिहितसुखरक्षितै:, पञ्चमीभयेन, षष्ठी, सप्तमीशौण्डै:, विशेषणं विशेष्येणबहुलम्, उपमानानि सामान्यवचनै:, नञ्, कर्मधारय, द्विगु:, उपपद तत्पुरुष | Π | 15 | 09 | 10 |
| | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या:/ तृतीयासप्तम्योर् बहुलम्/अव्ययीभावे चाकाले 7.2 तत्पुरुष समास: - द्वितीया श्रितातीतपतितगतात्यस्तप्राप्तापन्नै:, तृतीया तत्कृतार्थेन गुणवचनेन, कर्तृकरणे कृता बहुलम्, चतुर्थी तदर्थार्थ बलिहितसुखरक्षितै:, पञ्चमीभयेन, षष्ठी, सप्तमीशौण्डै:, विशेषणं विशेष्येणबहुलम्, उपमानानि सामान्यवचनै:, नञ्, कर्मधारय, द्विगु:, उपपद तत्पुरुष 7.3 - बहुव्रीहि समास: - अनेकमन्यपदार्थे | Π | 15 | 09 | 10 |
| | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या:/ तृतीयासप्तम्योर् बहुलम्/अव्ययीभावे चाकाले 7.2 तत्पुरुष समास: - द्वितीया श्रितातीतपतितगतात्यस्तप्राप्तापन्नै:, तृतीया तत्कृतार्थेन गुणवचनेन, कर्तृकरणे कृता बहुलम्, चतुर्थी तदर्थार्थ बलिहितसुखरक्षितै:, पञ्चमीभयेन, षष्ठी, सप्तमीशौण्डै:, विशेषणं विशेष्येणबहुलम्, उपमानानि सामान्यवचनै:, नञ्, कर्मधारय, द्विगु:, उपपद तत्पुरुष 7.3 - बहुव्रीहि समास: - आनेकमन्यपदार्थे 7.4 - द्वन्त्वसमास: - चार्थे द्वन्द्व: | Π | 15 | 09 | 10 |
| 8 | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या:/ तृतीयासप्तम्योर् बहुलम्/अव्ययीभावे चाकाले 7.2 तत्पुरुष समास: - द्वितीया श्रितातीतपतितगतात्यस्तप्राप्तापन्नै:, तृतीया तत्कृतार्थेन गुणवचनेन, कर्तृकरणे कृता बहुलम्, चतुर्थी तदर्थार्थ बलिहितसुखरक्षितै:, पञ्चमीभयेन, षष्ठी, सप्तमीशौण्डै:, विशेषणं विशेष्येणबहुलम्, उपमानानि सामान्यवचनै:, नञ्, कर्मधारय, द्विगु:, उपपद तत्पुरुष 7.3 - बहुव्रीहि समास: - अनेकमन्यपदार्थे | Π | 15 | 09 | 10 |
| 8. | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या:/ तृतीयासप्तम्योर् बहुलम्/अव्ययीभावे चाकाले 7.2 तत्पुरुष समास: - द्वितीया श्रितातीतपतितगतात्यस्तप्राप्तापन्नै:, तृतीया तत्कृतार्थेन गुणवचनेन, कर्तृकरणे कृता बहुलम्, चतुर्थी तदर्थार्थ बलिहितसुखरक्षितै:, पञ्चमीभयेन, षष्ठी, सप्तमीशौण्डै:, विशेषणं विशेष्येणबहुलम्, उपमानानि सामान्यवचनै:, नञ्, कर्मधारय, द्विगु:, उपपद तत्पुरुष 7.3 - बहुव्रीहि समास: - अनेकमन्यपदार्थे 7.4 - द्वन्त्वसमास: - चार्थे द्वन्द्व: सूत्रसहितपाठनं परं परीक्षायां सूत्रव्याख्यानादि प्रश्नानि न प्रष्टव्यानि शब्दरूपणि | Π | 15 | 09 | 10 |
| 8. | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या:/ तृतीयासप्तम्योर् बहुलम्/अव्ययीभावे चाकाले 7.2 तत्पुरुष समास: - द्वितीया श्रितातीतपतितगतात्यस्तप्राप्तापन्नै:, तृतीया तत्कृतार्थेन गुणवचनेन, कर्तृकरणे कृता बहुलम्, चतुर्थी तदर्थार्थ बलिहितसुखरक्षितै:, पञ्चमीभयेन, षष्ठी, सप्तमीशौण्डै:, विशेषणं विशेष्येणबहुलम्, उपमानानि सामान्यवचनै:, नञ्, कर्मधारय, द्विगु:, उपपद तत्पुरुष 7.3 - बहुव्रीहि समास: - अनेकमन्यपदार्थे 7.4 - द्वन्त्वसमास: - चार्थे द्वन्द्व: सूत्रसहितपाठनं परं परीक्षायां सूत्रव्याख्यानादि प्रश्नानि न प्रष्टव्यानि शब्दरूपणि 8.1 - पुल्लिङ्ग:शब्दरूपाणि | Π | 15 | 09 | 10 |
| 8. | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या:/ तृतीयासप्तम्योर् बहुलम्/अव्ययीभावे चाकाले 7.2 तत्पुरुष समास: - द्वितीया श्रितातीतपतितगतात्यस्तप्राप्तापन्नै:, तृतीया तत्कृतार्थेन गुणवचनेन, कर्तृकरणे कृता बहुलम्, चतुर्थी तदर्थार्थ बलिहितसुखरक्षितै:, पञ्चमीभयेन, षष्ठी, सप्तमीशौण्डै:, विशेषणं विशेष्येणबहुलम्, उपमानानि सामान्यवचनै:, नञ्, कर्मधारय, द्विगु:, उपपद तत्पुरुष 7.3 - बहुत्रीहि समास: - आनेकमन्यपदार्थे 7.4 - द्वन्त्वसमास: - चार्थे द्वन्द्व: सूत्रसहितपाठनं परं परीक्षायां सूत्रव्याख्यानादि प्रश्नानि न प्रष्टव्यानि शब्दरूपणि 8.1 - पुल्लिङ्ग:शब्दरूपाणि अकारान्त: - वात, वैद्य, रुग्ण, राम आदि | Π | 15 | 09 | 10 |
| 8. | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या:/ तृतीयासप्तम्योर् बहुलम्/अव्ययीभावे चाकाले 7.2 तत्पुरुष समास: - द्वितीया श्रितातीतपतितगतात्यस्तप्राप्तापन्नै:, तृतीया तत्कृतार्थेन गुणवचनेन, कर्तृकरणे कृता बहुलम्, चतुर्थी तदर्थार्थ बलिहितसुखरक्षितै:, पञ्चमीभयेन, षष्ठी, सप्तमीशौण्डै:, विशेषणं विशेष्येणबहुलम्, उपमानानि सामान्यवचनै:, नञ्, कर्मधारय, द्विगु:, उपपद तत्पुरुष 7.3 - बहुव्रीहि समास: - अनेकमन्यपदार्थे 7.4 - द्वन्त्वसमास: - चार्थे द्वन्द्व: सूत्रसहितपाठनं परं परीक्षायां सूत्रव्याख्यानादि प्रश्नानि न प्रष्टव्यानि शब्दरूपणि 8.1 - पुल्लिङ्ग:शब्दरूपाणि अकारान्त: - वात, वैद्य, रुग्ण, राम आदि इकारान्त: - अग्नि, मुनि आदि | | | | |
| 8. | विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावपश्चायथानुपूर्व्ययौगप द्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या:/ तृतीयासप्तम्योर् बहुलम्/अव्ययीभावे चाकाले 7.2 तत्पुरुष समास: - द्वितीया श्रितातीतपतितगतात्यस्तप्राप्तापन्नै:, तृतीया तत्कृतार्थेन गुणवचनेन, कर्तृकरणे कृता बहुलम्, चतुर्थी तदर्थार्थ बलिहितसुखरक्षितै:, पञ्चमीभयेन, षष्ठी, सप्तमीशौण्डै:, विशेषणं विशेष्येणबहुलम्, उपमानानि सामान्यवचनै:, नञ्, कर्मधारय, द्विगु:, उपपद तत्पुरुष 7.3 - बहुत्रीहि समास: - आनेकमन्यपदार्थे 7.4 - द्वन्त्वसमास: - चार्थे द्वन्द्व: सूत्रसहितपाठनं परं परीक्षायां सूत्रव्याख्यानादि प्रश्नानि न प्रष्टव्यानि शब्दरूपणि 8.1 - पुल्लिङ्ग:शब्दरूपाणि अकारान्त: - वात, वैद्य, रुग्ण, राम आदि | | | | |

| | ओकारान्त: - गो आदि | | | | |
|----|---|---|----|----|----|
| | जाकारान्त — श्लेश्मन्, रोगिन्, ज्ञानिन् आदि नकारान्त — श्लेश्मन्, रोगिन्, ज्ञानिन् आदि | | | | |
| | | | | | |
| | सकारान्त — चन्द्रमस् आदि | | | | |
| | तकारान्त — मरुत् आदि | | | | |
| | दकारान्त — सुहृद् आदि | | | | |
| | जकारान्त — भिषज्, आदि | | | | |
| | शकारान्त: - कीदृश्, एतादृश् आदि | | | | |
| | 8.2 - स्त्रीलिङ्ग:शब्दरूपाणि | | | | |
| | आकारान्त: - बला, कला, स्थिरा, माला आदि | | | | |
| | इकारान्त: - सम्प्राप्ति, प्रकृति, मति आदि | | | | |
| | ईकारान्त: - धमनी, नदी आदि | | | | |
| | उकारान्त: - रज्जु, धेनु आदि | | | | |
| | ऊकारान्त: - वर्षाभू, वधू आदि | | | | |
| | ऋकारान्त: - मातृ आदि | | | | |
| 1 | चकारान्त: - वाच् आदि | | | | |
| | तकारान्त: - योषित्, सरित् आदि | | | | |
| | दकारान्तः – परिषद् आदि जनगणनः – एव अपनि | | | | |
| | जकारान्त: - स्रज् आदि सकारान्त: - जलौकस्, सुमनस् आदि | | | | |
| | स्वर्गरात्ताः - प्रावृष् आदि षकारान्ताः – प्रावृष् आदि | | | | |
| | 8.3 – नपुंसकलिङ्ग शब्दरूपाणि | | | | |
| | अकारान्त: - पित्त, वन आदि | | | | |
| | उकारान्त: - अश्रु, मधु आदि | | | | |
| | इकारान्त: - अक्षि, अस्थि, वारि, दधि आदि | | | | |
| | ऋकारान्त: - ज्ञातू, धातृ आदि | | | | |
| | नकारान्त: - वर्त्सन्, दण्डिन् आदि | | | | |
| | सकारान्त: - स्रोतस्, मनस् आदि | | | | |
| | षकारन्तः – सर्पिष्, आयुष् आदि | | | | |
| | तकारान्त: - शकृत्, जगत् आदि | | | | |
| | अष्टाङ्गहृदयसंहितायाम् विद्यमानानाम् अन्यानामपि समाननामरूपाणाम् | | | | |
| | परिचयकरणम् अभिलषणीयम् प्रश्नपत्रे न प्रष्टव्यम् | | | | |
| | 8.4 - सर्वनामपदानि – अस्मद्, युष्मद्, तद्, एतद्, यद्, किम्, इदम् आदि | | | | |
| 9. | धातुरुपाणि – [विस्तरेण पाठनम्-detailed teaching] | | | | |
| | 9.1 - परस्मैपदि - लट्/ऌट्/लङ्/विधिलिङ्/लोट् | | | | |
| | भ्वादि गण - भू सत्तायाम्, क्षि क्षये, गमॢ(गम्) गतौ, पा पाने, जीव्, पच्, | | | | |
| | त्यज्, दृश् (पश्य) | | | | |
| | अदादि गण - अद् भक्षणे , हन् हिम्सागत्यो:, वा गतिगन्धनयो: पा रक्षणे, अस्, | I | 10 | 05 | 05 |
| 1 | श्वस्, स्वप्, ब्रू | I | 10 | 05 | 05 |
| 1 | ्रू जुहोत्यादि गण- धा धारणपोषणयो:, पृ - पलनपूरणयो:, हा त्यागे, दा (दाञ्) | | | | |
| | दिवादि गण- दिवु क्रीडादौ, त्रसी उद्वेगे, पुष् पुष्टौ, कुप्, नश्, तुष्, स्निह्, जृ | | | | |
| 1 | स्वादि गण- चिञ् चयने, शक्, शु | | | | |
| | | | | | |
| | तुदादि गण- तुद् व्यथने, कृष् विलेखने, लिख् लेखने, दिश्, कृन्त्, क्षिप्, स्पृश् | | | | |

| | रुधादि गण- रुधिर् आवरणे, भिदिर् विदारणे, भुज् | | | | |
|----|---|----|----|----|----|
| | तनादि गण- तनु विस्तारे, कृञ् करणे | | | | |
| | क्रयादि गण- प्रीञ् -तर्पणे कान्ते च, ग्रह् उपादाने, ज्ञा | | | | |
| | चुरादि गण- गण् संस्थाने, साध्, ताड्, धृ, कथ् वाक्यप्रबन्धे | | | | |
| | आत्मनेपदि- | | | | |
| | भ्वादि गण - वृतु वर्त्तने, वृध्(वर्ध्), लभ्, सेव्, रुच् | | | | |
| | अदादि गण - शीङ् स्वप्ने, ब्रू | | | | |
| | जुहोत्यादि गण- धा धारणपोषणयो:, दा (दाञ्), | | | | |
| | दिवादि गण- जनी प्रादुर्भाव, मन्, बुध्, पद्, विद् | | | | |
| | स्वादि गण- चिञ् चयने, | | | | |
| | तुदादि गण- तुद् व्यथने, कृष् विलेखने, म्रि, विद्, मुच्, सिञ्च्, | | | | |
| | रुधादि गण- रुधिर् आवरणे, भिदिर् विदारणे, भुज् | | | | |
| | तनादि गण- तनु विस्तारे, कृञ् करणे | | | | |
| | क्रयादि गण- प्रीञ् -तर्पणे कान्ते च, ग्रह् उपादाने, ज्ञा | | | | |
| | चुरादि गण- चुर्, क्षाल्, कथ्, घोष्, भक्ष् | | | | |
| | आयुर्वेदसंहितासु विद्यमानानां धतुरूपाणां परिचयीकरणम् अभिकाम्यम् | | | | |
| | 9.2 - लृड्ग , आशीर्लिड्ग, लिट , लुड्ग, लुड [सर्ड्क्षिप्य पाठनम्-Brief | | | | |
| | teaching] भ्वादि गण, अदादि गण, जुहोत्यादि गण, दिवादि गण, स्वादि | | | | |
| | गण, तुदादि गण, रुधादि गण, तनादि गण, क्रयादि गण, चुरादि गण | | | | |
| | पूर्वोक्तधातुष्वेकस्य पञ्चलकारेषु रूपाणि दर्शयेत् परं परीक्षायाम् न पृष्टव्यानि | | | | |
| 10 | प्रत्ययाः | | | | |
| • | 10.1 – क्त - क्तवत्, तव्यत् – अनीयर्, शतृ – शानच्, ल्युट् - ण्वुल्, | | | | |
| | क्तवा - ल्यप्, णिनि:, क्तिन्, तुमुन् | | | | |
| | प्रत्ययाणाम् प्रयोगाः एव पृष्टव्याः | II | 10 | 05 | 6 |
| | 10.2 - भावे घञ्, करणे घञ्, भावे ष्यञ्, कर्मणि ण्यत्, कर्त्तीरे अच् अप् | | 10 | 00 | U |
| | आयुर्वेदसंहितायां विद्यमानानां भावे/करणे/कर्त्तीरे/ताच्छील्ये/ आदि प्रत्ययानां | | | | |
| | परिचय: करणीय: परं परीक्षायाम् न पृष्टव्या: परीक्षायाम् वाच्य प्रयोग: स्वरुपे | | | | |
| | पृष्टव्य: | | | | |
| 11 | विशेषण विशेष्य | II | 05 | 02 | 03 |

| Pap | er II – Part A Sanskrit | | | | |
|-----|--|--------------------------|-------------|----------------------------|--------------------------------|
| | A2 List of Topics (Maximum Marks – 80 (SAQ & LAQ only) | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
| 1 | निरुक्ति तथा पर्याय पदानि– A) आयुः, शरीर, मन:, अग्नि:, जलम्, वात:, पित्तम्, कफ: B) रस, रक्त, मांस, मेद, अस्थि, मज्जा, शुक्र, इन्द्रियम्,श्रोत्र:, चक्षु:, रसना ,, घ्राण C)) धी, धृति, स्मृति,बुद्धी, मति , प्रज्ञा , मूत्र, पुरीष:, स्वेद, आत्मा, रोग:,निदानम्, | A- I B – II C- III | 15 | 7 (A-1, B-3, C-3) | 13 (A- 4, B-4, C-5) |

| | रोगि:, भेषजचिकित्सा , आदि | | | | |
|----|--|----------------------------|----|--------------------------------|--------------------------------|
| 2 | परिभाषापदानि – A) आयुर्वेद:, पञ्चमहाभूतानि, त्रिगुणम्, दोषा:, मला:, दूष्यम्, सम्सर्ग:, सन्निपात: B) द्रव्य ,गुण, कर्म ,सामान्य, विशेष, गुरु, लघु, प्रकृति:, विकृति:,चय:, प्रकोप:, प्रसर:, स्थानसम्श्रय:, दोषगति: भेद:, रस:, वीर्यम्, विपाक:, कार्यकारणभाव: C) स्रोतस् , कोष्ठ:, आमम्, विरुद्धाह्रम्, विरुद्धाहार:, विदाहि, विष्टम्भि, सात्म्यम्, ओकसात्म्यम्, देशसात्म्यम्, अत्यशनम्, अध्यशनम्, स्थानी, योगवाही, पथ्यम्, आपथ्यम्, कृतान्नवर्ग:, अवस्थापाक:, वेग:, शोधन, शमन, लंघन, बृहण, अनुपान आदि | A - I B - II C- III | 20 | 10 (A-2, B-4, C- 4) | 15 (A- 5, B-5, C-5) |
| 3. | अन्वयलेखनम् - A) अष्टाङ्गहृदयम् सूत्रस्थानम् - अध्यायत: सर्वाणि सूत्राणि १.आयुष्कामीयम् २.दिनचर्या ३.रोगानुत्पादनीयम् B) अष्टाङ्गहृदयम् सूत्रस्थानम् - अध्यायत: सर्वाणि सूत्राणि दोषादिविज्ञानीयम् दोषभेदीयम् दोषभेदीयम् दोषभेदीयम् दोषभेदीवम् सुभाषितसाहित्यम् - shloka numbers - (भास्कर गोविन्द घाणेकर लिखित, चौखम्बा प्रकाशन) प्रथम: 1, 2 द्वितीय: 1, 7 तृतीय: 9 चतुर्थ: 2, 3 पञ्चम: 2, 3 पञ्चम: 2, 3 पछ: 1, 4, 7 सप्तम: 2, 5, 17 अष्टम: 13, 12 नवम: 12, 13 दशम: 1, 19 एकादश: 1, 2 द्वादश: 1, 6 त्रयोदश: 1, 7, 8, 9 | A - I B - II C - III | 30 | 20 (A- 4, B- 8, C- 8) | 14 (A- 4, B- 5, C- 5) |

| | चतुर्दश: 2, 3, 4 | | | | |
|----|--|-----|----|----|----|
| | पञ्चदश: 7,10 | | | | |
| | षोडश: 5, 6 | | | | |
| | सप्तदश: 1, 4 | | | | |
| | अष्टादश: 1, 2, 3 | | | | |
| | एकोनविंशति: 2, 3, 4 | | | | |
| | विंशति: , 12, 3, 4 | | | | |
| | श्लोकपूरणं न प्रष्टव्यम् परीक्षायाम्। पदच्छेदं विग्रहवाक्यम् अन्वय: वाक्यार्थं | | | | |
| | भावार्थं इत्यादय: एव प्रष्टव्या: | | | | |
| 4. | पञ्चतन्त्र-अपरीक्षितकारकम् ५ अध्याय | | | | |
| | कथा -१ नापितक्षपणक कथा | | | | |
| | कथा-२ नकुलीब्राह्मणी कथा | | | | |
| | कथा-३ चक्रधर कथा | III | 15 | 03 | 04 |
| | कथा-४ सिंहकारक मूर्खपण्डितकथा | | | | |
| | कथा-५ मूर्खपण्डित कथा | | | | |
| | श्होकपूरणं तथा अन्वयलेखनं न प्रष्टव्ये। | | | | |

| Pap | oer II – Part B – Ayurved Itihas – | | | | |
|-----|--|------------|-------------|------------------------|--------------------------------|
| | A2 List of Topics AyUG SN & AI (Maximum Marks – 20 (MCQ only) | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
| 1 | Derivation (Vyutpatti and Niruktti) and definition of Itihasa. Necessity, Significance and Utility of knowledge of Ayurveda itihasa. Means and method of study of Ayurveda itihasa. Different Time periods relevant for the Study of Ayurveda itihasa (viz, Prevedic, Vedic, Samhita kala, Sangraha kala etc.) | Ι | 5 | 1 | 2 |
| 2 | Origin and lineage of Ayurveda (Ayurvedavatarana) and Introduction of references of Ayurveda in Veda, Upanishat and Puarana. | Ι | | 1 | 2 |
| 3 | Structure, Specialities, Time period of Ayurveda Samhitas and their commentaries (including Special contributions of authors and commentators): Charaka Samhita, Sushruta Samhita, Ashtanga Sangraha, Ashtanga Hridaya, Bhela Samhita, Hareeta Samhita, Kashyapa Samhita. | I | 5 | 2 | 2 |

| Structure, Contributions and importance of Laghutrayee and Commentaries: Madhava Nidana, Sharngadhara Samhita, Bhavaprakasha. | II | | 1 | 3 |
|---|--|---|--|---|
| Origin and period of different systems of medicine in the world. | II | | 1 | 2 |
| Introduction to Vrukshayurveda, Hastyayurveda and Ashwayurveda. (Included in Transitional Curriculum) | II | 5 | - | 1 |
| Status of Ayurveda during the period of Ashoka, Mughal and British rule. | II | | 1 | 2 |
| Contribution of Scholars of modern era: Acharya Gana Nath Sen, Vaidya Yamini Bhushan Rai, Vaidya Shankar Dajishastri Pade, Acharya Swami Lakshmiram, Acharya Yadavji Tikramji, Dr. PM. Mehta, Vaidya B G Ghanekar, Vaidya Damodar Sharma Gaur, Acharya Priyavrat Sharma, Vaidya C Dwarakanath, Vaidya K R Shrikantamurthy, Vaidya VJ Thakkar, Vaidyaratnam PS Varier, Vaidya B V Gokhale. | III | | 1 | 2 |
| Globalization of Ayurveda | III | _ | 1 | 2 |
| Developmental activities in Ayurveda in the post-independence period: Introduction to various committees and their recommendations Introduction of activities of the following Organizations : Department of AYUSH, CCIM/ NCISM, CCRAS, National institutions Viz- All India Institute of Ayurved (AIIA), National Institute of Ayurveda, Jaipur. ITRA, Jamnagar. Faculty of Ayurveda, BHU, Varanasi. Rashtriya Ayurveda Vidyapeetha, New Delhi. | III | 5 | 1 | 2 |
| | Commentaries: Madhava Nidana, Sharngadhara Samhita, Bhavaprakasha. Origin and period of different systems of medicine in the world. Introduction to Vrukshayurveda, Hastyayurveda and Ashwayurveda. (Included in Transitional Curriculum) Status of Ayurveda during the period of Ashoka, Mughal and British rule. Contribution of Scholars of modern era: Acharya Gana Nath Sen, Vaidya Yamini Bhushan Rai, Vaidya Shankar Dajishastri Pade, Acharya Swami Lakshmiram, Acharya Yadavji Tikramji, Dr. PM. Mehta, Vaidya B G Ghanekar, Vaidya Damodar Sharma Gaur, Acharya Priyavrat Sharma, Vaidya C Dwarakanath, Vaidya K R Shrikantamurthy, Vaidya VJ Thakkar, Vaidyaratnam PS Varier, Vaidya B V Gokhale. Globalization of Ayurveda 1)Developmental activities in Ayurveda in the post-independence period: Introduction to various committees and their recommendations Introduction of activities of the following Organizations : Department of AYUSH, CCIM/ NCISM, CCRAS, 2) National institutions Viz- All India Institute of Ayurved (AIIA), National Institute of Ayurveda, Jaipur. ITRA, Jamnagar. Faculty of Ayurveda, BHU, Varanasi. Rashtriya Ayurveda Vidyapeetha, New | Commentaries:MadhavaNidana,SharngadharaSamhita,Bhavaprakasha.IIOrigin and period of different systems of medicine in the world.IIIntroductiontoVrukshayurveda,HastyayurvedaandAshwayurveda.(Included in Transitional Curriculum)IIStatus of Ayurveda during the period of Ashoka, Mughal and British rule.IIContribution of Scholars of modern era:Acharya Gana Nath Sen, Vaidya Yamini Bhushan Rai, Vaidya Shankar Dajishastri Pade, Acharya Swami Lakshmiram, Acharya Yadavji Tikramji, Dr. PM. Mehta, Vaidya B G Ghanekar, Vaidya Damodar Sharma Gaur, Acharya Priyavrat Sharma, Vaidya C Dwarakanath, Vaidya K R Shrikantamurthy, Vaidya VJ Thakkar, Vaidyaratnam PS Varier, Vaidya B V Gokhale.III1)Developmental activities in Ayurveda in the post-independence period:III1)Developmental activities of the following Organizations : Department of AYUSH, CCIM/ NCISM, CCRAS, 2) National Institutions Viz- All India Institute of Ayurved (AIIA), National Institute of Ayurveda, Jaipur. ITRA, Jamnagar. Faculty of Ayurveda, BHU, Varanasi. Rashtriya Ayurveda Vidyapeetha, NewIII | Commentaries: Madhava Nidana, Sharngadhara Samhita, Bhavaprakasha. II Origin and period of different systems of medicine in the world. II Introduction to Vrukshayurveda, Hastyayurveda and Ashwayurveda. (Included in Transitional Curriculum) II Status of Ayurveda during the period of Ashoka, Mughal and British rule. II Contribution of Scholars of modern era: Acharya Gana Nath Sen, Vaidya Yamini Bhushan Rai, Vaidya Shankar Dajishastri Pade, Acharya Swami Lakshmiram, Acharya Yadavji Tikramji, Dr. PM. Mehta, Vaidya B G Ghanekar, Vaidya Damodar Sharma Gaur, Acharya Priyavrat Sharma, Vaidya C Dwarakanath, Vaidya K R Shrikantamurthy, Vaidya VJ Thakkar, Vaidyaratnam PS Varier, Vaidya B V Gokhale. III Globalization of Ayurveda III 5 I)Developmental activities in Ayurveda in the post-independence period: III • Introduction to various committees and their recommendations : Department of AYUSH, CCIM/ NCISM, CCRAS, 2) National Institutions Viz- All India Institute of Ayurved (AIIA), National Institute of Ayurved, Jaipur. ITRA, Jamnagar, Faculty of Ayurveda, BHU, Varanasi. Rashtriya Ayurveda Vidyapeetha, New III | Commentaries: Madhava Nidana, Sharngadhara Samhita, II 1 Origin and period of different systems of medicine in the world. II II 1 Introduction to Vrukshayurveda, Hastyayurveda and II 1 Status of Ayurveda (Included in Transitional Curriculum) II I 5 - Status of Ayurveda during the period of Ashoka, Mughal and British rule. II 1 1 Contribution of Scholars of modern era: Acharya Gana Nath Sen, Vaidya Yamini Bhushan Rai, Vaidya Shankar Dajishastri Pade, Acharya Swami Lakshmiram, Acharya Yadavji Tikramji, Dr. PM. III 1 Mehta, Vaidya B G Ghanekar, Vaidya Damodar Sharma Gaur, Acharya Priyavrat Sharma, Vaidya C Dwarakanath, Vaidya K R III 1 Shrikantamurthy, Vaidya VJ Thakkar, Vaidyaratnam PS Varier, Vaidya B V Gokhale. III 5 1 I)Developmental activities in Ayurveda in the post-independence period: III 5 1 I)Development of AYUSH, CCIM/ NCISM, CCRAS, 2) National institution of activities of the following Organizations : Department of AYUSH, CCIM/ NCISM, CCRAS, 2) National institutions Viz- All India Institute of Ayurveda (AIIA), National Institute of Ayurveda, Jajur. TIRA, Jamnagar. Faculty of Ayurveda, BHU, Varanasi. Rashtriya Ayurveda Vidyapeetha, New III 1 |

Table 3: Learning objectives (Theory) of Course AyUG-SN & AI

| A3 Course outcome | B3 Learning Objective (At the end of the session, the Students should be able to) | C3 Domain/sub | D3 Must to know/ desirable to know/Nic e to know | E3 Level Does/ Shows how/ Knows how/ Know | F3 T-L method | G3 Assessment | H3 Formati ve /summa tive | I3 Te rm | J3 Integrat ion |
|-------------------------|---|--|--|--|---|---|---------------------------------------|----------------|-----------------------|
| Topic 1- सं | स्कृतवर्णानाम् परिचयः(5 ma | arks) Time: 13 | hrs (Lecture | :- 3 hours Non lect | ure 10 hrs) | | | | |
| CO 1, CO 6 | Read & write Sanskrit words | Cognitive domain - Knowledge | Must know | Khows how | Practical classes Demonstrations Classroom reading | Oral Written | F&S | Ι | |
| CO 1, CO 6 | Pronounce Sanskrit as per their appropriate articulations | Cognitive domain – Comprehens ion | Must know | Khows how/ Shows how | Practical classes presentation of videos Graphical Representation of Vocal system Class room reading / speaking | Oral / Written Assignment on Identifying the Places of articulation of the words in Ayurveda texts. | F&S | Ι | |
| Topic 2- R | संज्ञा (10 marks)- Time: 05 H | Irs (Lecture:- | 5 hours Non | lecture 00 hrs) | | | | | |
| CO 2, CO 4, CO | 2.1 Explain the terms related to संज्ञा in Sanskrit grammar | Cognitive domain- Comprehens ion | Desirable to know | Knows | Lecture with Power point presentation | Oral, Conduction of quiz | F&S | II | |
| CO 2, CO 4, CO 5 | 2.2 Identify the संज्ञा Explain the meaning of the संज्ञा | Cognitive domain- Comprehens ion | Must know | Khows how | Lecture with Power point presentation | Oral / written Very short answer Differentiate, identify, fill in the blanks etc | F&S | I | |

| Topic 3 उ | पसर्गा: - उपसर्गा: क्रियायोगे (05 mark | (s) Time: 05 Hrs | (Lecture:- 02 | 2 hours Non lecture | e 03 hrs) | Preparation of MSQ (MCQ) Question- answer sessions | | | |
|------------------------|--|--|---------------|----------------------------|--|---|-----|---|--|
| CO 2, CO 4, CO 6 | Identify the उपसर्गा: Explain the meaning of the words with उपसर्गा: Identify the difference in meaning according to the उपसर्गा: | Cognitive domain - Comprehens ion problem solving | Must know | Khows how | Lectures with Power point presentation. Problem Based Learning (PBL) Group Discussions | Oral & Written objective type very short answer compare differentiate etc, Assignments open book test | F&S | Ш | |
| Topic 4- | अव्ययानि (05 marks) Time: | | | | | | | | |
| CO 2, CO 4, CO 6 | 4.1 Identify अव्ययानि | Cognitive domain - Comprehens ion | Must know | Knows | Lectures with Power point presentation. Group Discussions | Oral & Written. objective type very short answer - compare, differentiate Assignments on sentence construction, presentation by the students | F&S | Ι | |
| CO 2, CO 4, CO 6 | 4.2 Explain the meaning with reference to the context | Cognitive domain – Application | Must Know | Knows how | Lectures with Power point presentation. Group Discussions | Oral & Written objective type very short | F&S | П | |

| CO 2, CO 4, CO 6 | Construct the sentences using अव्ययानि | Cognitive domain - Synthesis | Must Know | Shows how | Lectures with Power point presentation. Group Discussions Conversation Sessions | answer / compare differentiate Assignments open book test Oral & Written Construct sentences with proper use of Avyayas. Use appropriate Avyayas. Very short answer Assignments on finding out the अव्ययानि used in the texts and explain their meaning with reference to the context. Open book test. | F&S | III |
|------------------------|--|--|--------------|-------------------|---|--|-----|--|
| Topic 5— | कारकप्रकरणम् (15 marks) | Time: 15 Hrs | (Lecture:- 5 | hours Non lecture | 10 hrs) | tost. | I | I I |
| CO 3, CO 6 | A) Discriminate the विभक्ति and their meaning. B) Identify the karakas from Ayurveda texts like करणम् कारणम् C) Construct sentences. D) Translate sentences from English to | Cognitive domain - Synthesis problem solving | Must know | Shows how | Lectures with Power point presentation. Group Discussions | Oral & Written objective type very short answer / compare differentiate / | F&S | A)– I B) – II C) – III D) - III |

15 Sanskrit evam Ayurved Itihas, I BAMS(Ayurvedacharya), NCISM

| Торіс 6- स | Sanskrit & from Sanskrit to English. निध: (15 marks) Time: 20 H | Irs (Lecture:- 1 | 0 hours Non | e lecture 10 hrs) | | meaning with reference to the context etc Assignments on identification of the karakas used in the Ayurveda basic principle terms like करणम् कारणम्. | | | |
|-------------------|---|--|--------------|-------------------|---|--|-----|----|--|
| CO 2, CO 6 | 6.1 Identify सन्धि: Explain the meaning of the context by splitting. Formulate the joined words while writing the sentences | Cognitive domain - Application and problem solving | Must know | Knows how | Lectures with Power point presentation. Group Discussions Classes by the students Ashtang hrudaya with the सन्धि: | Oral & Written Objective type, very short answer – compare, differentiate etc. Assignments to find the सन्धि: in Ashtangahruda ya Quiz on सन्धि: | F&S | Π | |
| CO 2, CO 6 | 6.2 Identify सन्धि: Explain the meaning of | Cognitive domain - Application and problem solving | Must know | Khows how | Lectures with Power point presentation. Group Discussions | Oral & Written objective type very short | F&S | II | |

| | the context by splitting. Formulate the joined words while writing the sentences | | | | Classes by the students Ashtang hrudaya with the सन्धि: | answer compare and differentiate Assignments to find the सन्धि: in Ashtangahruda ya Quiz on सन्धि: Preparation of charts, mindmaps etc. | | | |
|---------------|---|--|----------------------|-----------|---|--|-----|---|--|
| CO 2, CO 6 | 6.3 Identify सन्धि: Explain the meaning of the context by splitting. Formulate the joined words while writing the sentences | Cognitive domain - Application and problem solving | Must know | Khows how | Lectures with Power point presentation. Group Discussions Classes by the students Ashtang hrudaya with the सन्धि: | Oral & Written objective type very short answer Assignments to find the सन्धि: in Ashtang hrudaya Quiz on सन्धि: Preparation of charts, mindmaps etc. | F&S | Π | |
| CO 2, CO 6 | 6.4 Identify सन्धि: Explain the meaning of the context by splitting. | Cognitive domain – Comprehens ion Application | Desirable to know | Knows | Lectures with Power point presentation. | Oral Preparation of charts, mindmaps etc. | F&S | Π | |

| | Identify समास: Discriminate between the | Cognitive domain - Comprehens | Must know | Knows | Lectures with Power point presentation. | Oral & Written | F&S | | |
|---------------|---|--|--------------|-----------|---|---|-----|---|--|
| CO 2 | सन्धि:and समास: | ion | | | Group Discussions Problem Based Learning(PBL) Flipped classroom Peer learning Classes by the students on the sutras in Ashtang hrudaya with the विग्रहवाक्यम् | objective type very short answer- compare differentiate Assignments to find the समास: in Ashtanga hrudaya Quiz on समास: Puzzles Word cloud Cross words etc. | | П | |
| CO 2, CO 6 | 7.1 Identify समास: Explain the meaning of the context by writing the विग्रहवाक्यम् Construct the समस्तपदम्while writing the sentences | Cognitive domain - Application and problem solving | Must know | Shows how | Lectures with Power point presentation. Group Discussions Problem Based Learning(PBL) Flipped classroom Peer learning Classes by the students on the sutras in Ashtang hrudaya with the विग्रहवाक्यम् | oral & Written objective type very short answer Assignments to find the समास: in Ashtangahrday a Quiz on समास: Puzzles Word cloud Cross words | F&S | П | |

| | | | | | | etc. Preparation of charts, mindmaps etc. | | | |
|---------------|---|--|--------------|-----------|---|--|-----|---|--|
| CO 2, CO 6 | 7.2 Identify समास: Explaining the meaning of the context by writing the विग्रहवाक्यम् Construct the समस्तपदम् while writing the sentences | Cognitive domain - Application and problem solving | Must know | Shows how | Lectures with Power point presentation. Group Discussions Problem Based Learning(PBL) Flipped classroom Peer learning Classes by the students on the sutras in Ashtang hrudaya with the विग्रहवाक्यम् | Oral & Written objective type very short answer Assignments to find the समास: in Ashtangahrday a Quiz on समास: Puzzles Word cloud Cross words etc. Preparation of charts, mindmaps etc. | F&S | П | |
| CO 2, CO 6 | 7.3 Identify समास: Explaining the meaning of the context by writing the विग्रहवाक्यम् Construct the समस्तपदम्while writing the sentences | Cognitive domain - Application and problem solving | Must know | Shows how | Lectures with Power point presentation. Group Discussions Problem Based Learning(PBL) Flipped classroom Peer learning Classes by the students on the sutras in Ashtang hrudaya with the विग्रहवाक्यम् | Oral & Written objective type very short answer meaning with reference to the context etc. Assignments to find the समास: in Ashtangahrday | F&S | Π | |

| CO 2, CO 6 | 7.4 Identify समास: Explaining the meaning of the context by writing the विग्रहवाक्यम् Construct the समस्तपदम् while writing the sentences | Cognitive domain - Application and problem solving | Must know | Shows how | Lectures with Power point presentation. Group Discussions Flipped classroom Peer learning Classes by the students on the sutras in Ashtang hrudaya with the विग्रहवाक्यम् Problem Based Learning(PBL) | a Quiz on समास: Puzzles Word cloud Cross words etc. Preparation of charts, mindmaps etc. Oral & Written objective type very short answer Assignments to find the समास: in Ashtangahrday a Quiz on समास: Puzzles Word cloud Cross words etc. Preparation of charts, mindmaps etc. | F&S | II | |
|------------------------|--|--|--------------|--------------------|---|--|-----|----|--|
| Topic 8- श | ब्दरूपाणि (10 marks) Time: | 16 Hrs (Lectur | re:- 2 hours | Non lecture 14 hrs |) | | | | |
| CO 2, CO 3, CO 6 | Identify & write the अन्तलिङ्गविभक्तिवचनानि of a noun. Construct sentences | Cognitive domain – Synthesis problem solving | Must know | Shows how | Lectures with Power point presentation. Recitation Peer learning | Oral & Written objective type very short answer | F&S | Ι | |

| | | | | | Group Discussions | Assignments to find out the अन्तलिङ्गविभ क्तिवचनानि of nouns used in various text books and writing all forms of all विभक्ति. Quizzes Puzzles Word cloud Cross words etc. | | | |
|---------------|--|--|-----------------|-----------|--|--|-----|---|--|
| СО 2, СО 6 | Iतुरुपाणि (10 marks) Time: 9.1 Identify & write लकारपदपुरुषवचनानि of the roots. Interpret the meaning according to the लकार: Use for constructing sentences. | Cognitive domain - Synthesis and problem solving | Must know | Shows how | s) Lectures with Power point presentation. Recitation Group Discussions Peer learning | Oral & Written objective type very short answer Assignments to find out the verbs used in various text book in the syllabus and completing all the forms. Quizzes Word cloud etc. | F&S | I | |
| CO 2, CO 6 | 9.2 Identify & write लकारपदपुरुषवचनानि of the roots. | Cognitive domain- Comprehens ion problem | Nice to know | Knows | Lectures with Power point presentation. Group Discussions | Oral Assignments Quizzes Word cloud etc. | F&S | Ι | |

| | Interpret the meaning according to the लकार: | solving | | | | | | | |
|---------------|---|--|-----------------|--------------------------|--|---|-----|---|--|
| Topic -10 |) प्रत्ययाः (10 Marks) Time: | 11 Hrs (Lectu | re:- 5 hours | Non lecture 06 h | rs) | | • | | |
| CO 2, CO 6 | 10.1 Identify the प्रत्यया: Interpret the meaning with reference to the context with the support of the प्रत्यया: | Cognitive domain - Comprehens ion and problem solving | Must know | Shows how | Lectures with Power point presentation. Group Discussions | Oral & Written objective type very short answer Assignments Quizzes | F&S | Π | |
| CO 2, CO 6 | 10.2Identify the प्रत्यया:Interpret the meaning with reference to the context with the supportof the प्रत्यया:(परीक्षायाम् वाच्य प्रयोग: स्वरुपेपृष्टव्य:) | Cognitive domain- Application and problem solving | Must to Know | Shows how | Lectures with Power point presentation. Group Discussions | Oral Assignments Quizzes | F&S | Π | |
| Topic 11- | - विशेषण विशेष्य (05 Marks) Ti | me: 05 Hrs (L | ecture:-02 | hours Non lecture | e 03 hrs) | | | | |
| CO 2, CO 6 | Identify and discriminate different types of Visheshanas. Effectively use visheshanas in sentences. | Cognitive domain - Application and problem solving | Must know | Knows how / Shows how | Lectures with Power point presentation. Flipped classroom | Oral & Written Quizzes Word cloud etc. | F&S | Π | |

| A3 Course outcome | B3 Learning Objective (At the end of the session, the Students should be able to) | C3 Domain/sub | D3 Must to know/ desira ble to know/ Nice to know | E3 Level Does/ Shows how/ Knows how/ Know | F3 T-L method | G3 Assessment | H3 Form ative /sum mativ e | I3 Te rm | J3 Integr ation |
|-------------------------|---|-----------------------|---|--|--|---|---|------------------|-----------------------|
| Topic 1- नि | Explain the meaning of the words and their | Cognitive domain - | 8 Hrs. Le Must know | ecture:- 7 Knows how | hours (A-2, B-5) Non lecture Lectures with Power point presentation. | Oral & Written objective type | F & S | | Sa mh |
| | synonyms with the help of their nirukti (निरुक्तिः) | comprehension | | | Flipped classroom | very short answer compare differentiate meanings | | | ita, Kr iya |
| | A) आयुः ,शरीर, मन:, अग्नि,: जलम्, वात:, | | | | Peer learning Ayurveda Samhita | meaning with reference to the context etc Assignments | | | Sh ari r, |
| CO 2, | पित्तम्, कफ: B) रस, रक्त, मांस, मेद, | | | | Group Discussions | Open book test | | A- I | Ra ch an |
| CO 5 | अस्थि, मज्जा, शुक्र इन्द्रियम् ,श्रोत्र, चक्षु , | | | | | | | B – II C- III | a Sh ari |
| | ,रसना, घ्राण C) धी, धृति, स्मृति ,बुद्धी , | | | | | | | | r. |
| , म स् रो | ,मति प्रज्ञा ,मूत्र ,पुरीष:, स्वेद, आत्मा, | | | | | | | | |
| | स्वद, आत्मा, रोग:,निदानम् ,रोगि ,: भेषजचिकित्सा , आदि | | | | | | | | |

| CO 2, CO 5 Topic 3 - 3 | Explain the meaning of the words and their synonyms with the help of their nirukti (निरुक्तिः) Describe the Paribhasapadas (परिभाषापदः) परिभाषापदानि – A) आयुर्वेद:, पञ्चमहाभूतानि, त्रिगुणम्, दोषा,: मला:, दूष्यम्, सम्सर्ग:, सन्निपात: B) द्रव्य ,गुण, कर्म ,सामान्य, विशेष, गुरु, लघु, प्रकृति:, विकृति:,चय:, प्रकोप:, प्रसर:, स्थानसम्थ्रय:, दोषगति: भेद:, रस:, वीर्यम्, विपाक:, कार्यकारणभाव: C) स्रोतस् , कोष्ठ:, आमम्, विरुद्धाह्रम्, विरुद्धाहार:, विदाहि, विष्टम्भि, सात्म्यम्, ओकसात्म्यम्, अध्यशनम्, स्थानी, योगवाही, पथ्यम्, अपथ्यम्, कृतान्नवर्ग:, अवस्थापाक:, वेग: ,शोधन ,शमन, लंघन , बृहण, अनुपान आदि | Cognitive domain – Comprehension Application | Must know | Knows how | Lectures with Power point presentation. Flipped classroom Peer learning Group Discussions S, C-8 hours) Non lecture 14 | Oral & Written objective type very short answer write short notes Assignments from Ayurveda Samhita Open book test | F&S | A- I B – II C- III | Sa mh ita, Kr iya Sh ari r, Ra ch an a Sh ari r. |
|------------------------------|--|---|--------------|--------------|---|--|-----|---------------------------|--|
| CO 4, CO 6 | Identify the subject object Adjective noun verb in a sentence. | Cognitive domain – Comprehension Application | Must know | Shows how | Self-directed learning Flipped classroom Classes by the students | Oral & Written Objective type Very short answer Anvaya writing | F&S | A - I B - II C- III | Sa mh ita |

| Write the पदच्छेदं विग्रहवाक्यम् | Group Discussions | Short answer | | |
|-------------------------------------|-------------------|--|-----|--|
| | Group Discussions | Assignments on writing पदच्छेदं विग्रहवाक्यम् | | |
| अन्वय: वाच्यार्थं and | | | | |
| भावार्थम् | | अन्वय: वाच्यार्थं भावार्थम् | | |
| Of shlokas | | | | |
| A) अष्टाङ्गहृदयम् सूत्रस्थानम् — | | | | |
| अध्यायत: सर्वाणि सूत्राणि | | | | |
| १.आयुष्कामीयम् | | | | |
| २.दिनचर्या | | | | |
| ३.रोगानुत्पादनीयम् | | | | |
| B) अष्टाङ्गहृदयम् सूत्रस्थानम् — | | | | |
| अध्यायत: सर्वाणि सूत्राणि | | | | |
| दोषादिविज्ञानीयम् | | | | |
| दोषभेदीयम् | | | | |
| दोषोपक्रमणीयम् | | | | |
| द्विविधोपक्रमणीयम् | | | | |
| C) वैद्यकीय सुभाषितसाहित्यम् | | | | |
| – shloka numbers - | | | | |
| प्रथम: 1, 2 | | | | |
| द्वितीय: 1, 7 | | | | |
| तृतीय: 9 | | | | |
| चतुर्थ: 2, 3 | | | | |
| पञ्चम: 2, 3 | | | | |
| ষষ্ট: 1, 4, 7 | | | | |
| सप्तम: 2, 5, 17 | | | | |
| अष्टम: 13, 12 | | | | |
| नवम: 12, 13 | | | | |
| दशम: 1, 19 | | | | |
| एकादश: 1, 2 | | | | |
| द्वादश: 1, 6 | | | | |
| | 1 | | I I | |

| Topic 4 - | | - | | | re:- 03 hours Non lecture | | | | |
|---------------|---|---|--------------|--------------|---|--|-----|---|--|
| CO 4, CO 6 | Construct Sanskrit sentences and comprehend a passage. Convert active and passive voice sentences. १. क्षपणक कथा २. नकुलब्राह्मणी कथा ३. चक्रधर कथा ४.सिंहकारकब्राह्मणपुत्र कथा ५. मूर्खपण्डित कथा | Cognitive Domain- Synthesis Problem Solving | Must know | Shows how | Activity based learning Self-directed learning Flipped classroom Group Discussions | Oral & Written objective type very short answer write summery Assignments on finding out प्रत्यय: and क्रियापदानि Assignments of changing the voice. Assignments on translation | F&S | Ш | |

| PAPER | PAPER II Part B Ayurved Itihas | | | | | | | | | | | | | |
|-------|--------------------------------|----------|--------------|------------|------------|------------|---------|----|------------|--|--|--|--|--|
| A3 | B3 | C3 | D3 | E3 | F3 | G3 | H3 | I3 | J3 | | | | | |
| Cours | Learning Objective | Domain/s | Must to | Level | T-L method | Assessment | Formati | Те | Integratio | | | | | |
| e | | ub | know/ | Does/ | | | ve | rm | n | | | | | |
| outco | (At the end of the session, | | desirable to | Shows how/ | | | /summa | | | | | | | |
| me | the students should be able | | know/Nice | Knows how/ | | | tive | | | | | | | |
| | to) | | to know | Know | | | | | | | | | | |

26 Sanskrit evam Ayurved Itihas, I BAMS(Ayurvedacharya), NCISM

2

| Topic | 1- Time (Lecture:- 1 hour, No | n lecture 2 | 2 hours) | | | | | | |
|--------------|---|------------------------------------|----------------------|-------|--|---|-------|---|--|
| CO 8 | Describe Etymological derivation (Vyutpatti), syntactical derivation (Niruktti) and definition of the word Itihasa. | Cognitive/ Knowledg e(K) | Must know | Knows | Lecture & Group Discussion, | Written MCQ | F & S | I | |
| CO 8 | Describe of knowledge of history, its significance and utility, means and method of Ayurveda history | Cognitiv e/ coprehen sion | Must know | Knows | Lecture & Group Discussion, Tutorial, Video clips | Written MCQ Discussions or debate | F | I | |
| CO 8 CO 9 | Explain Different Time periods relevant for the Study of Ayurveda itihasa (viz, Prevedic, Vedic, Samhita kala, Sangraha kala etc.) | Cognitiv e/K | Must know | Knows | Lecture & Group Discussion, Tutorial, Charts, Edutainment. | Written MCQ | F & S | I | |
| Topic 2 | 2- Time (Lecture:- 1 hour, No | n lecture 2 | 2 hours) | | | | | | |
| CO 8 CO 9 | Explain different opinions of origin and lineage of Ayurveda available in Samhitas and Samudra manthana and origin of Dhanvantari. | Cognitiv e/K | Must know | Knows | Lecture, video & Group Discussion | Written MCQ | F & S | I | |
| CO 8 CO 9 | Outline 2-3 references of Ayurveda in Veda, Upanishat and Puarana | Cognitiv e/K | Desirable to know | Knows | Lecture, charts & Group Discussion, SDL | Written MCQ, Online search of Archiologi cal sites for Ayurved. Presentatio n by Students, | F | I | |

| CO 8 | Describe Ayurveda as Upaveda of Atharvaveda | Cognitiv e/coprehe ntion | Desirable to know | Knows | Lecture & Group Discussion | Written MCQ | F & S | Ι | |
|--------------|--|--------------------------------|-------------------|-------|---|--|-------|---|-------------------------------------|
| Topic 3 | 3- Time (Lecture:- 2 hour, No | n lecture 2 | hours) | | | | | | |
| CO 8 CO 9 | Describe the Structure, Specialities, Time period of Charaka Samhita | Cognitiv e/K | Must know | Knows | Lecture, charts & Group Discussion Online Visit of Charakaranya, elared places. | Written MCQ Chart prepration | F & S | I | |
| CO 8 CO 9 | Briefly explain contribution of Punarvasu Athreya, Agnivesha, Charaka, Drudhabala | Cognitiv e/K | Must know | Knows | Lecture & Group Discussion | Written MCQ | F & S | Ι | |
| CO 8 CO 9 | Enumerate the important Commentaries on Charaka Samhita and identify their authors. | Cognitiv e/K | Must know | Knows | Lecture & Group Discussion, Activity on commentary, Compilation. | Written MCQ Online samhitas, Commento ry search | F & S | I | |
| CO 8 CO 9 | Explain the importance of Ayurveda Deepika, Jalpakalpataru. | Cognitiv e/K | Must know | Knows | Lecture & Group Discussion. | Written MCQ | F & S | Ι | |
| CO 8 CO 9 | Justify Charakastu Chikitsite in view of Global medical history. | Cognitiv e/K | Must know | Knows | Lecture & Group Discussion, | Written MCQ Debate Creativs writing | F | I | Roganida na, Kayachiki tsa |
| CO 8 CO 9 | Describe the Structure, Specialities, Time period of Sushruta Samhita | Cognitiv e/K | Must know | Knows | Lecture & Group Discussion | Written MCQ Poster making | F & S | I | |
| CO 8 CO 9 | Briefly explain contribution of Dhanvantari, Sushruta, | Cognitiv e/k | Must know | Knows | Lecture & Group Discussion | Written MCQ | F & S | Ι | Salya tantra |

| | Nagarjuna, Chandrata | | | | | | | | |
|--------------|--|-------------------------------------|-----------|-------|--|--|-------|---|---|
| CO 8 CO 9 | Enumerate the important commentaries on Sushruta Samhita and identify their authors. | Cognitiv e/K | Must know | Knows | Lecture & Group Discussion | Written MCQ Chart or collage | F & S | Ι | |
| CO 8 CO 9 | Explain the importance of Nibandha sangraha, Nyaya chandrika, | Cognitiv e/K | Must know | Knows | Lecture & Group Discussion | Written MCQ | F & S | Ι | |
| CO 8 CO 9 | Justify Shaareere Sushruta | Cognitiv e/compre hension | Must know | Knows | Lecture & Group Discussion | Written MCQ Debate/D iscussions | F | Ι | Rachana Sharira, Kriya sharira |
| CO 8 CO 9 | Describe the Contributions of Sushruta Samhita to the field of surgery. | Cognitiv e/ Compreh ension | Must know | Knows | Lecture & Group Discussion | Written MCQ | F & S | Ι | Shalya Tantra |
| CO 8 CO 9 | Identify the acharyas of Atreya and Dhanvantari Sampradaya | Cognitiv e/K | Must know | Knows | Lecture & Group Discussion Quiz | Written MCQ | F & S | Ι | |
| CO 8 CO 9 | Describe the Structure, Specialities, Time period of Ahtanga sangraha and Ashtang hridaya. | Cognitiv e/K | Must know | Knows | Lecture & Group Discussion Video Clips | Written MCQ Chart or collage of events | F & S | Ι | |
| CO 8 CO 9 | Briefly explain contributions of Vruddha and Laghuvagbhata | Cognitiv e/K | Must know | Knows | Lecture & Group Discussion | Written MCQ | F & S | Ι | |
| CO 8 CO 9 | Enumerate commentaries on Ahtanga sangraha and Ashtang hridaya and explain importance of Indu, Hemadri and Arunadatta commentary. | Cognitiv e/K | Must know | Knows | Lecture & Group Discussion | Written MCQ Quiz | F & S | Ι | |
| CO 8 | Justify Sutrasthane tu | Cognitiv | Must know | Knows | Lecture & Group | Written | F & S | Ι | |

29 Sanskrit evam Ayurved Itihas, I BAMS(Ayurvedacharya), NCISM

| CO 9 | vagbhata | e/K | | | Discussion | MCQ | | | |
|------|--|----------|--------------|----------------|--|----------------------|-------|----|----------|
| CO 8 | Enumerate the salient | Cognitiv | Desirable to | Knows | Lecture & Group | Written | F | Ι | |
| CO 9 | features of Bhela Samhita | e/k | know | | Discussion, SDL | MCQ | | | |
| CO 8 | Enumerate the salient | Cognitiv | Desirable to | Knows | Lecture & Group | Written | F & S | Ι | |
| CO 9 | features of Hareeta Samhita | e/k | know | | Discussion, SDL | MCQ | | | |
| CO 8 | Describe the Structure, | Cognitiv | Must know | Knows | Lecture & Group | Written | F & S | Ι | |
| CO 9 | Specialties, Time period of | e/k | | | Discussion | MCQ | | | |
| | Kashyapa Samhita | | | | | Chart or | | | |
| | | | | | | collage of Events | | | |
| CO 8 | Briefly explain contribution | Cognitiv | Must know | Knows | Lecture & Group | Written | F & S | T | |
| CO 9 | of Kashyapa, Jeevaka, | e/k | iviust kilow | K ilows | Discussion | MCQ | 1 0 5 | 1 | |
| | Vatsya. | | | | | | | | |
| CO 8 | Identify contribution of | Cognitiv | Must know | Knows | Lecture & Group | Written | F & S | Ι | |
| CO 9 | Kashyapa Samhita to the | e/k | | | Discussion | MCQ | | | |
| | field of Pediatrics. | | | | | | | | |
| - | - Time (Lecture:- 1 hour, No | | | I | | I | | L | |
| CO 8 | Describe Structure, | Cognitiv | Must know | Knows | Lecture & Group | Written | F & S | II | |
| CO 9 | Contributions and | e/k | | | Discussion, | MCQ | | | |
| | importance of Madhava Nidana. | | | | Library Session for handing of books. | Library Searching | | | |
| | Initialia. | | | | nanding of books. | online | | | |
| | | | | | | availabe | | | |
| | | | | | | Samhitas. | | | |
| | | | | | | Samhita | | | |
| | | | | | | mobile | | | |
| | | | | | | application | | | |
| | | | | | | S | | | |
| CO 8 | Outline the importance of | Cognitiv | Must know | Knows | Lecture & Group | Written | F & S | II | Roganida |
| CO 9 | Madhavakara, | e/k | | | Discussion | MCQ | | | na |
| | Vijayarakshita, Shrikanthadatta and Justify | | | | | | | | |
| | nidane madhava shreshtha. | | | | | | | | |
| CO 8 | Describe Structure, | Cognitiv | Must know | Knows | Lecture & Group | Written | F & S | II | |

| CO 9 | Contributions and importance of Sharngadhara Samhita. | e/k | | | Discussion | MCQ | | | |
|--------------|--|-----------------|----------------------|-------|--|---|-------|---------|--|
| CO 8 CO 9 | Briefly explain contribution of Sharngadhara, Adhamalla, Kashiram. | Cognitiv e/k | Must know | Knows | Lecture & Group Discussion | Written MCQ | F & S | II | |
| CO 8 CO 9 | Explain about Bhavamishra and Enumerate the salient features of Bhavaprakasha. | Cognitiv e/k | Must know | Knows | Lecture & Group Discussion, | Written MCQ | F & S | II | |
| Topic 5 | - Time (Lecture:- 1 hour, No | n lecture 2 | 2 hours) | · | | | | · · · · | |
| CO 8 CO 9 | Enlist origin and period of different systems of medicine in the world. | Cognitiv e/k | Must know | Knows | Lecture & Group Discussion | Written MCQ Assignment s | F & S | Π | |
| Topic 6 | - Time (Lecture:- 0 hour, No | n lecture 1 | l hours) | • | - | | - | | |
| CO 8 CO 9 | Explain in brief about Ashwayurveda, Gajayuyrveda, Gavayurveda and Vrukshayurveda. | Cognitiv e/k | Must know | Knows | Lecture (Included in Transitional Curriculum)& Group Discussion | Written MCQ Serach of Use of Ayurved plats in different cattle food. Poster making | F & S | Π | |
| Topic 7 | - Time (Lecture:- 1 hour, No | n lecture 2 | 2 hours) | | | 8 | | | |
| CO 8 CO 9 | Describe the Status of Ayurveda during the period of Ashoka, Mughal and British rule. | Cognitiv e/K | Desirable to know | Knows | Lecture & Group Discussion, SDL | Written MCQ Collect the photos online and make a documentor | F & S | Π | |

| | | | | | | y in your voice. | | | |
|--------------|--|-----------------|----------------------|-------|--|--|-------|-----|---|
| Topic 8 | B- Time (Lecture:- 1 hour, No | n lecture 2 | 2 hours) | | | | | | |
| CO 8 CO 9 | Name the Contributions of Acharya Gana Nath Sen, Vaidya Yamini Bhushan Rai, Vaidya Shankar Dajishastri Pade, Acharya Swami Lakshmiram, Acharya Yadavji Tikramji, Dr. PM. Mehta, Vaidya B G Ghanekar, Vaidya Damodar Sharma Gaur, Acharya Priyavrat Sharma, Vaidya C Dwarakanath, Vaidya K R Shrikantamurthy, Vaidya VJ Thakkar, Vaidyaratnam PS Varier, Vaidya B V Gokhale. | Cognitiv e/K | Desirable to know | Knows | Lecture & Group Discussion, Tutorial, Self directed learning (SDL) | Written MCQ, Quiz, Match the pair Edutainmen t Poster making, Video clip making, Compilatio n, | F & S | III | |
| | - Time (Lecture:- 1 hour, Nor | | | Ι | 1 | Ι | 1 | | 1 |
| CO 8 CO 9 | Discuss Globalization of Ayurveda – Expansion of Ayurveda in Misra (Egypt), Sri Lanka, Nepal other nations. 0- Time (Lecture:- 1 hour, N | Cognitiv e/K | Desirable to know | Knows | Lecture & Tutorial, Video Edutainment | Written MCQ Collect data and make video clip with your own narration. | F & S | III | |

| CO 8 CO 9 | Enumerate the various Committees and 2-3 recommendations | Cognitiv e | Must know | Knows | Lecture | Written MCQ | F & S | III | |
|--------------|---|-----------------|----------------------|-------|--|--|-------|-----|--|
| CO 8 CO 9 | Explain activities of Department of AYUSH, CCIM/ NCISM, CCRAS | Cognitiv e/K | Must know | Knows | Lecture & Group Discussion, Tutorial | Written MCQ Visit to Website of the Department s and discussion | F & S | Π | |
| CO 8 CO 9 | Identify the institutes All India Institute of Ayurved, New Delhi, (AIIA), National Institute of Ayurveda, Jaipur. ITRA, Jamnagar. Faculty of Ayurveda, BHU, Varanasi. Rashtriya Ayurveda Vidyapeetha, New Delhi. | Cognitiv e/K | Desirable to know | Knows | Lecture & Group Discussion, Video | Written MCQ, Visit to web sites of colleges and Discussions | F & S | ΠΙ | |

| SN | Name of Practical Sanskrit | Term | Hours |
|----|---|----------|-----------|
| P1 | Use of Dictionaries and Shabdakoshas अमरकोश:, वनौषधिवर्ग:, शब्दकल्पद्रुम:, वाचस्पत्यम् | Ι | 15 |
| P2 | Translation from Sanskrit to desirable language. | II | 15 |
| P3 | Translation from desirable language to Sanskrit. | II | 15 |
| P4 | सम्भाषण भाषा पठनम् Spoken Sanskrit and Communication Skills | III | 15 |
| P5 | All activity based practicals from above table are enlisted. (In table 2 and Table 3) They are as | | |
| | follows: | | |
| | 1. Presentation of videos about Maheshwar Sutra, Prayatna, Uccharana Sthanani etc. | Ι | |
| | 2. Graphical Representation of Vocal system | Ι | |
| | 3. Reading / Pronounciation | Ι | |
| | 4. Preparing different Shabdarupani and recitation | I/II | |
| | 5. Preparing different Kriyapadani. | Ι | |
| | 6. Practicals on Karakani. | I/II | |
| | 7. Practicals on Pratyayas | II | |
| | 8. Practicals on Sandhis | II | 120 hours |
| | 9. Practicals on Samasa | II | |
| | 10. Practicals on Upasargas. | II | |
| | 11. Practicals on Avyayas | II | |
| | 12. Practicals on Visheshan – Visheshya | II | |
| | 13. Practicals on Anvay lekhana | I/II/III | |
| | 14. Practicals on Nirukti | II/III | |
| | 15. Practicals on Paribhasha | I/II/II | |
| | 16. Practicals on Panchatantra | III | |

| A4 | B4 | C4 | D4 | E4 | F4 | G4 | H4 | I4 | J4 |
|-------------------|--|--|------------------------------|-------------------------|---|---|---------------------------|----------|-----------------|
| Course outcome | Learning Objective | Domain/sub | Must to know/ desirabl | Level Does/ Shows | T-L method | Assessment | Formativ e /summati | Te rm | Integratio n |
| | (At the end of the session, the Students should | | e to know/Ni ce to | how/ Knows how/ | | | ve | | |
| | be able to) | | know | Know | | | | | |
| Practical 1 | L- अमरकोश: -वनौषधिवर्ग | f:, शब्दकल्पद्रुम:, | वाचस्पत्यम्, | Dictionaries | s Time: 15 Hrs (Practical/ | Clinical 15 hour | s) | | |
| CO 5 | Refer the dictionaries. Refer the Books on synonyms | Cognitive domain - comprehensi on | Must to know | knows | Demonstration for identifying the meaning of the words with the support of the shabdakoshas like Amarkosha, Shabda kalpadruma, vachaspatyam etc. Record writing | Oral | F & S | Ι | |
| CO 5, 6 | Improve the vocabulary. Use in reading and writing. | Cognitive domain - comprehensi on | Desirabl e know | knows | Group Discussions Record writing | Oral Recitation Competition s Aksharashlo ka competitions etc. | F & S | Π | |
| Practical 2 | 2 - Translation from Sans | skrit to desirable la | anguage. Tin | ne: 15 Hrs. (| Practical/ Clinical 15 hrs) | | I | <u> </u> | 1 |
| CO 3, 4, | Translate from | Cognitive | Must to | Shows | Demonstration | Oral | F & S | II | |

35 Sanskrit evam Ayurved Itihas, I BAMS(Ayurvedacharya), NCISM

| | desirable language. | comprehensi on, synthesis. | | | Record writing | | | | |
|------------------|---|---|----------------------|--------------|--|-----------------|-------|-----|----------|
| Practical | 1 3 - Translation from desir | rable language to | Sanskrit. Tir | ne: 15 Hrs. | (Practical/ Clinical 15 hrs) | | | | |
| CO 3, 4, 5, 6 | Translate from desirable language to Sanskrit. 14- सम्भाषण भाषा पठनग | Cognitive domain - comprehensi on, synthesis. | Must to know | Shows how | Demonstration Group Activity Record writing | Oral Written | F & S | II | |
| CO 6, 7 | Apply Sanskrit grammar. Write a small paragraph or Script. Speak atleast 5 to 10 lines in Sanskrit fluently. Stage a skit. | Cognitive domain - comprehensi on. Psychomotor domain – articulation Psychomotor domain – articulation | Must to know | Shows how | Staging small skits. Script writing, elocution competitions. Games Conversation Peer learning Creating conversations Conversations in different situations by the students. | Oral | F & S | III | |
| 1. F | Presentation of videos abou | ıt Maheshwar Suti | | | Table 3) They are as follows: Sthanani etc. | (NLH 120) | | | <u> </u> |
| | Graphical Representation of | i vocal system | | | | | | | |
| | Reading / Pronounciation | mani and mailed | | | | | | | |
| | Preparing different Shabda | - | on | | | | | | |
| | Preparing different Kriyapa | iuani. | | | | | | | |
| | Practicals on Karakani. | | | | | | | | |
| 7. F | Practicals on Pratyayas | | | | | | | | |

- 8. Practicals on Sandhis
- 9. Practicals on Samasa
- 10. Practicals on Upasargas.
- 11. Practicals on Avyayas
- 12. Practicals on Visheshan Visheshya
- 13. Practicals on Anvay lekhana
- 14. Practicals on Nirukti
- 15. Practicals on Paribhasha
- 16. Practicals on Panchatantra

| List non lecture Teaching-Learning methods | No of Activities | Total |
|--|------------------|-------|
| Sanskrit | | |
| Presentation of videos | 2 | |
| Graphical Representation of Vocal system | 1 | |
| Guided Reading, | 5 | |
| Peer learning | 4 | |
| PBL | 36 | 120 |
| Quizes, puzzles, cross word, word cloud | 13 | |
| Group activities | 37 | |
| SDL | 17 | |
| Recitation | 5 | |
| Practical (Refer Table 4 | 60 | 60 |
| Ayurved Itihas | 20 | 20 |
| | | 200 |

Table 5: Non Lecture Activities Course AyUG- SN & AI

Topic wise details -

| List non lecture Teaching-Learning methods | No of Activities |
|---|------------------|
| Presentation of videos about Maheshwar Sutra, Prayatna, Uccharana Sthanani | 2 |
| etc. | |
| Graphical Representation of Vocal system | 1 |
| Reading / Pronounciation (Guided Reading, Peer learning) | 7 |
| Preparing different Shabdarupani and recitation (PBL, Peer learning, Quizes, word cloud, crosswords, recitation etc.) | 14 |
| Preparing different Kriyapadani. (PBL, Group activities) | 5 |
| Practicals on Karakani. (PBL, Group Discussions) | 10 |
| Practicals on Pratyayas. (PBL, Group Discussions) | 6 |
| Practicals on Sandhis (PBL, Quizes, puzzles, Group activities) | 10 |
| Practicals on Samasa (PBL, Quizes, puzzles,) | 10 |
| Practicals on Upasargas. (PBL, group activities) | 3 |
| Practicals on Avyayas (PBL, group activities) | 3 |
| Practicals on Visheshan – Visheshya (PBL) | 3 |
| Practicals on Anvay lekhana (PBL, SDL, Group Discussions) | 14 |
| Practicals on Nirukti (PBL, SDL, Group Discussions) | 13 |
| Practicals on Panchatantra - Vachya of sentences, Writing sentences using | 4 |
| appropriate Shabdarupani and Kriyapadani etc. (SDL, PBL, group activities) | |
| Practicals on Paribhasha (PBL, SDL, Group Discussions) | 15 |
| | 120 |

Ayurved Itihas-

| List non lecture Teaching-Learning methods | No of Activities |
|--|------------------|
| Group Discussion, | 10 |
| Video clips | 5 |
| Online Search, Prroject | |
| Tutorial | |
| Quiz, Collage, Puzzle | 5 |
| | |
| | 20 |

Table 6: Assessment Summary

| | | | Theory | Practica | Grand | | | | |
|-------|--------------------|-------------|----------|--------------------|----------|----------------|----|--------------|-------|
| S.No. | Subject Code | Papers | | Practical/Clinical | Viva | Electives | IA | Sub Total | Total |
| 1. | AyUG-SN & AI | 2 | 200 | - | 75* | 10 (Set-FA) | 15 | 100 | 300 |
| *Viva | voce examination s | hall be for | Sanskrit | and not for Ayurve | d Ithiha | sa | | | |

6 A-Number of Papers and Marks Distribution

6 B - Scheme of Assessment (formative and Summative)

| | | DDOFESSIONAL | DURATION | OF PROFESSIONA | L COURSE | |
|--------|---------------|------------------------|----------------------------|------------------------------|------------------------------|--|
| SR.NO. | | PROFESSIONAL COURSE | First Term (1-6 Months) | Second Term (7-12 Months) | Third Term (13-18 Months) | |
| 1 | AyUG- SN & AI | First | 3 PA & First TT | 3 PA & Second TT | 3 PA & UE | |
| | PA: Peri | odical Assessment; T | T: Term Test; UE | : University Examina | ations | |

6 C - Calculation Method for Internal assessment Marks (15 Marks)

| | | PERIO | DICAL A | SSESSMEN | Г* | TERM TEST** | TERM ASSESSMENT | | |
|-----------------|---|--|-----------------|----------------------|--|--|-------------------------------|-----------------------------|--|
| | A B C D | | D | Ε | F | G | Н | | |
| TERM | 1 (15 Marks) | 2 (15 Marks) | 3 (15 Marks) | Average (A+B+C/3) | Converted to 15 Marks (D/15*15) | Term Test (Marks converted to 15) (15 Marks) | Sub Total _/30 Marks | Term Assessment (/15) | |
| FIRST | | | | | | | E+F | (E+F)/2 | |
| SECOND | | | | | | | E+F | (E+F)/2 | |
| THIRD | | | | | | NIL | | Е | |
| Final IA | | Ave | rage of T | hree Term A | ssessment N | Iarks as Shown | in 'H' Col | umn. | |
| | *Select a for Perot ** Cond Marks) | Maximum Marks in Parentheses *Select an Evaluation Methods which is appropriate for the objectives of Topics from the Table 6 D for Peroadic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 | | | | | | | |

6 D- Evaluation Methods for Periodical Assessment

| S. No. | Evaluation Methods |
|--------|---|
| 1. | Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3. |
| 2. | Practical / Clinical Performance |
| 3. | Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions) |
| 4. | Open Book Test (Problem Based) |
| 5. | Summary Writing (Research Papers/ Samhitas) |
| 6. | Class Presentations; Work Book Maintenance |
| 7. | Problem Based Assignment |
| 8. | Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD) |
| 9. | Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department). |
| 10. | Small Project |
| 11. | Specific Periodic Assessment AyUG- SN & AI Sanskrit (3 PA / term) Quiz, Puzzles, Word cloud, Cross words, Preparation of charts, mindmaps, Assignments, Open book test, Recitation. SanskritTopics 8 and 9 शब्दरूपाणि and धातुरुपाणि from paper 1 can be asked for recitation, word cloud, crossword etc. in all Terms Test and viva or any from above table. Ayurved Itihas (3 PA/term) Quiz, Puzzles, Word cloud, Cross words, Preparation of charts, mindmaps, Assignments, Open book test, Video Clips making. Any of Evaluation Methods for Periodical Assessment |

6 E- Paper Layout

I PROFESSIONAL BAMS EXAMINATIONS

AyUG SN & AI

PAPER-I

Time: 3 HoursMaximum Marks: 100INSTRUCTIONS: All questions compulsoryTOTAL MARKS 100 Sanskrit

| | | Number of Questions | Marks per question | Total Marks |
|-----|---|------------------------|--------------------|-------------|
| Q 1 | Multiple Choice Questions (MCQ) All Sanskrit | 20 | 1 | 20 |
| Q 2 | Short answer questions (SAQ) All Sanskrit | 8 | 5 | 40 |
| Q 3 | Long answer questions (LAQ) All Sanskrit | 4 | 10 | 40 |
| | | | | 100 |

I PROFESSIONAL BAMS EXAMINATIONS

AyUG SN & AI

PAPER-II

Time: 3 Hours

INSTRUCTIONS: All questions compulsory

TOTAL MARKS 100 = [Sanskrit, (LAQ and SAQ) 80 marks + Ayurved Itihas, (MCQ) 20 marks]

| | | Number of | Marks per | Total Marks |
|-----|---------------------------------|-----------|-----------|-------------|
| | | Questions | question | |
| Q 1 | Multiple Choice Questions (MCQ) | 20 | 1 | 20 |
| | Ayurved Itihas, (all 20) | | | |
| Q 2 | Short answer questions (SAQ) | 8 | 5 | 40 |
| | All Sanskrit | | | |
| Q 3 | Long answer questions (LAQ) | 4 | 10 | 40 |
| | All SaAnskrit | | | |
| | | | | 100 |

6 F- Disribution of Theory Exam

| | Disribution of Theory Exam Paper I: Sanskrit | | | "Ye | D pe of Questio es" can be ask hould not be a | ed. |
|----|--|-------------------------|------------|-----------------|--|------------------------------|
| | A List of Topics | B Term | C Marks | MCQ (1 Mark) | SAQ (5 Marks) | LAQ (10 Marks) |
| 1 | संस्कृतवर्णानाम् परिचयः – माहेश्वरसूत्राणि, उच्चारणस्थानानि, बाह्यप्रयत्नानि, अभ्यन्तर प्रयत्नानि | Ι | 05 | 5 | No | No |
| 2 | संज्ञा- 2.1 - संयोग:, संहिता, ह्रस्वदीर्घप्लुत:, अनुनासिक:, पदम्, धातु:, उपसर्ग:, गुण:, वृद्धि 2.2 - इत्, लोप:, प्रत्याहार:, उदात्त:, अनुदात्त:, स्वरित:, सवर्ण:, निपात:, प्रगृह्यम्, | 2.1 – I 2.2 – II | 05 | 5 | No | No |
| 3. | उपसर्गा:- उपसर्गा :क्रियायोगे प्र, परा, अप, सम्, अनु, अव, निस्, निर्, दुस्, दुर्, वि, आङ्, नि, अपि, अधि, अति, सु, उत्, अभि, प्रति, परि, उप | п | 05 | No | Yes (1 que of 5 marks) | No |
| 4. | अव्ययानि 4.1 - च अपि खलु हि तु किल ननु वा च एव 4.2- पुन: विना उच्चै: ऋते एवम् सह सार्धम् युगपत् यथा –तथा यावत्-तावत् इति यदा-तदा यदि- तर्हि साकम् न कुत्र कति कुत: किमर्थम्, कियत् इह अत्र तत्र सर्वत्र अन्यत्र कुत्र एकत्र सदा अन्यथा एकथा A) Identify अव्ययानि B) Explain the meaning with reference to the context C) Construct the sentences using अव्ययानि | I A II B III C | 5 | No | Yes (1 que of 5 marks) | No |
| 5. | कारकप्रकरणम् तथा वाच्य प्रयोग: – कर्तृकारकम् , कर्मकारकम् , करणकारकम् , सम्प्रदानकारकम्, अपादान कारकम्, अधिकरणकारकम् , सम्बन्ध:, उपपदविभक्ति: A) Discriminate the विभक्ति and their meaning. B) Identify the karakas from Ayurveda texts like करणम् कारणम् C) Construct sentences D) Translate sentences from English to Sanskrit & from Sanskrit to English. | I A II B III C, D | 15 | 5 | Yes (1 que of 5 marks) | Yes (1 que of 5 marks) |

| 6. | सन्धि: 6.1 - अच् सन्धि/:स्वरसन्धि: - यण् सन्धि- इको यणचि, गुण सन्धि=:आहुण: वृद्धिसन्धि-:वृद्धिरेचि, अयवायाव सन्धि: - एचोऽयवायव/:वान्तो यि प्रत्यये, लोप सन्धि-:लोप :शाकल्यस्य, पररूपसन्धि-:एडि पररूपम्, पूर्वरूपसन्धि- एड: पदान्तादति, प्रकृतीभाव- सर्वत्र विभाषा गो: , प्लुत प्रगृह्य अचि नित्यम् 6.2 - हल्सन्धि: /व्यञ्जनसन्धि: - श्रुत्वसन्धि -:स्तो : श्रुना श्रु:, ष्टुत्वसन्धि -:ष्टुना ष्टु:, जश्त्व सन्धि-:झलां जशो/न्ते, अनुनासिकसन्धि-:यरोऽनुनासिकेऽनुनासिको वा/प्रत्यये भाषायां नित्यम्, परसवर्णसन्धि-:तोर्लि/:वा पदान्तस्य, चर्त्वसन्धि: खरि च, पूर्वसवर्णसन्धि::खयोऽहोऽन्यतरस्याम्, छुत्वसन्धि: शरछोऽटि /छत्वममीति वाच्यम्, अनुस्वारसन्धि -: मोऽनुस्वार:, तुगागमसन्धि-: शि तुक्/छे च/पदान्ताद्वा, रुत्वआदेशसन्धि-: नश्छव्यप्रशान् 6.3 - विसर्गसन्धि: - रुत्वसन्धि::ससजुषो रु:, उत्वसन्धि: अतो रोरप्लुदादप्लुते/हशि च, रो रि, भो भागो अघो अपूर्वस्य योऽशि, रोऽसुपि, एतत्तदोः सुलोपोऽकोरनञ् समासे हलि, सोऽचि लोपे चेत् पादपूरणम् 6.4 रुत्वप्रकरणसन्धि-: [सङ्क्षिप्य पाठनम् – Brief teaching] सम :सुटि, कानाम्रेडिते च, अत्रानुनासिको पूर्वस्य तु वा,अनुनासिकात्परोऽनुस्वार:, खरवसानयोर्विसर्जनीय:, विसर्जनीयस्य स:,सम्पुङ्कानां सो वक्त्तच्व्य: | Π | 15 (6.1- 5marks 6.2/6.4- 5marks 6.3 – 5marks) | No | Yes (1 que of 5 marks) | Yes 10 (1 Que. of 10 marks) |
|----|---|---|--|----|---------------------------|-----------------------------------|
| 7. | समास 7.1 - अव्ययीभावसमास: - 7.1.1 - अव्ययम् विभक्तिसमीपसमृद्धिव्यर्ध्यर्थाभावात्ययसम्प्रतिशब्दप्रादुर्भाभावप श्चायथानुपूर्व्ययौगपद्यसादृउश्यसम्पत्तिसाकल्यान्तवचनेषु 7.1.2 प्रथमा निर्दिष्टम् उपसर्जनम्,/ उपसर्जनं पूर्वम् /नाव्ययीभावादतो/ म् त्वपञ्चम्या/: तृतीयासप्तम्योर् बहुलम्/अव्ययीभावे चाकाले 7.2 तत्पुरुष समास: - द्वितीया श्रितातीतपतितगतात्यस्तप्राप्तापन्नै:, तृतीया तत्कृतार्थेन गुणवचनेन, कर्तृकरणे कृता बहुलम्, चतुर्थी तदर्थार्थ बल्हितितसुखरक्षितै:, पञ्चमीभयेन, षष्ठी, सप्तमीशौण्डै ,: विशेषणं विशेष्येणबहुलम् ,उपमानानि सामान्यवचनै,: नञ् ,कर्मधारय ,द्विगु,: उपपद तत्पुरुष | Π | 15 (7.1.1 &7.1.2 5marks 7.1.3 – 5marks 7.14 & 7.15 – 5marks) | No | Yes (1 que of 5 marks) | Yes 10 (1 Que. of 10 marks) |

| | 7.3 - बहुव्रीहि समास - :अनेकमन्यपदार्थे | | | | | |
|----|---|---|----|----|-------------|--------------------|
| | 7.4 - द्वन्त्वसमास - :चार्थे द्वन्द्व : | | | | | |
| 8. | शब्दरूपणि | | | | | |
| | 8.1 - पुल्लिङ् शब्दरूपाणि | | | | | |
| | अकारान्त: - वात, वैद्य, रुग्ण, राम आदि | | | | | |
| | इकारान्त: - अग्नि, मुनि आदि | | | | | |
| | उकारान्त: - ऋतु, भानु गुरु आदि | | | | | |
| | ऋकारान्त :- नृ, धातृ, पितृ आदि | | | | | |
| | ओकारान्त: - गो आदि | | | | | |
| | नकारान्त — श्लेश्मन्, रोगिन्, ज्ञानिन् आदि | | | | | |
| | सकारान्त — चन्द्रमस् आदि | | | | | |
| | तकारान्त — मरुत् आदि | | | | | |
| | दकारान्त — सुहृद् आदि | | | | | |
| | जकारान्त – भिषज्, आदि | | | | | |
| | शकारान्त: - कीदृश्, एतादृश् आदि | | | | | |
| | 8.2 - स्त्रीलिङ्ग शब्दरूपाणि | | | | | |
| | आकारान्त :- बला, कला, स्थिरा, माला आदि | | | | | |
| | इकारान्त: - सम्प्राप्ति, प्रकृति, मति आदि | | | | | Vac (1 |
| | ईकारान्त: - धमनी, नदी आदि | - | 10 | N | Yes (1 que | Yes (1 |
| | उकारान्त: - रज्जु, धेनु आदि | I | 10 | No | of 5 marks) | que of 5 |
| | ऊकारान्त: - वर्षाभू वधू आदि | | | | | marks) |
| | ऋकारान्त :- मातृ आदि | | | | | |
| | चकारान्त: - वाच् आदि तकारान्त: - योषित्, सरित् आदि | | | | | |
| | तकारान्तः - परिषद् आदि दकारान्तः - परिषद् आदि | | | | | |
| | जकारान्त: - स्नज् आदि | | | | | |
| | सकारान्त: - जलौकस्, सुमनस् आदि | | | | | |
| | षकारान्तः – प्रावृष् आदि | | | | | |
| | 8.3 — नपुंसकलिङ्ग शब्दरूपाणि | | | | | |
| | अकारान्त: - पित्त, वन आदि | | | | | |
| | उकारान्त: - अश्रु, मधु आदि | | | | | |
| | इकारान्त: - अक्षि, अस्थि, वारि, दधि आदि | | | | | |
| | ऋकारान्त: - ज्ञातृ, धातृ आदि | | | | | |
| | नकारान्त: - वर्त्मन्, दण्डिन् आदि | | | | | |
| | सकारान्त: - स्रोतस्, मनस् आदि | | | | | |
| | षकारन्तः – सर्पिष्, आयुष् आदि | | | | | |
| | तकारान्त: - शकृत्, जगत् आदि | | | | | |
| | 8.4- सर्वनामपदानि – अस्मद्, युष्मद्, तद्, | | | | | |
| 0 | एतद्, यद्, किम्, इदम् आदि • ग नगणी | | | | | V (1 |
| 9. | | т | 10 | No | Yes (1 que | Yes (1 |
| | 9.1 - परस्मैपदि - लट्/ऌट्/लङ्/विधिलिङ्/लोट् भ्वादि गण - भू सत्तायाम्, क्षि क्षये, गमू)गम् (गतौ, पा | I | 10 | No | of 5 marks) | que of 5 marks) |
| | न्यात गण - मू सत्तायाम्, । ल लय, गम्णु)गम् (गता, पी | | | | | marks) |

| | पाने, जीव्, पच्, त्यज् ,दृश्(पश्य) | | | | | |
|----|---|---|----|---|------------|----------|
| | अदादि गण - अद् भक्षणे , हन् हिम्सागत्यो:, वा | | | | | |
| | गतिगन्धनयो: पा रक्षणे ,अस्, श्वस्स्वप ,् ब्रू , | | | | | |
| | जुहोत्यादि गण- धा धारणपोषणयो:, पृ - पलनपूरणयो:, हा | | | | | |
| | त्यागे,दा (दाञ्) | | | | | |
| | दिवादि गण- दिवु क्रीडादौ, त्रसी उद्वेगे, पुष् पुष्टौ, कुप्, नश्, | | | | | |
| | तुष्, स्निह्, जॄ | | | | | |
| | स्वादि गण- चिञ् चयने, शक्श्रु , | | | | | |
| | तुदादि गण- तुद् व्यथने, कृष् विलेखने ,लिख् लेखने ,दिश्, | | | | | |
| | कृन्त्, क्षिप्, स्पृश् | | | | | |
| | रुधादि गण- रुधिर् आवरणे, भिदिर् विदारणे , भुज ् | | | | | |
| | तनादि गण- तनु विस्तारे, कृञ् करणे | | | | | |
| | त्रयादि गण- प्रीञ्- तर्पणे कान्ते च, ग्रह् उपादाने ज्ञ ा | | | | | |
| | चुरादि गण- गण् संस्थाने, साध्, ताड्, धृ, कथ् वाक्यप्रबन्धे | | | | | |
| | आत्मनेपदि - | | | | | |
| | भ्वादि गण - वृतु वर्त्तने ,वृध्(वर्ध्), लभ्, सेव्, रुच् | | | | | |
| | अदादि गण - शीङ् स्वप्नेब्रू, | | | | | |
| | जुहोत्यादि गण- धा धारणपोषणयो ,:दा (दाञ्), | | | | | |
| | दिवादि गण- जनी प्रादुर्भाव ,मन्, बुध्, पद्, विद् | | | | | |
| | स्वादि गण- चिञ् चयने, | | | | | |
| | तुदादि गण- तुद् व्यथने, कृष् विलेखने ,म्रि, विद्, मुच्, सिञ्च्, | | | | | |
| | रुधादि गण- रुधिर् आवरणे, भिदिर् विदारणेभुज ,् | | | | | |
| | तनादि गण- तनु विस्तारे, कृञ् करणे | | | | | |
| | <i>ब्र</i> यादि गण- प्रीञ्- तर्पणे कान्ते च, ग्रह् उपादानेज्ञ ,ा | | | | | |
| | चुरादि गण- चुर् ,क्षाल्, कथ्, घोष्, भक्ष् | | | | | |
| | आयुर्वेदसंहितासु विद्यमानानां धतुरूपाणां परिचयीकरणम् | | | | | |
| | अभिकाम्यम् | | | | | |
| | 9.2 - लुड्ग, आशीर्लिड्ग, लिट, लुड्ग, लुड [सङ्क्षिप्य | | | | | |
| | पाठनम्-Brief teaching] भ्वादि गण ,अदादि गण , | | | | | |
| | जुहोत्यादि गण ,दिवादि गण ,स्वादि गण ,तुदादि गण ,रुधादि | | | | | |
| | गण ,तनादि गण ,क्र्यादि गण ,चुरादि गण | | | | | |
| | पूर्वोक्तधातुष्वेकस्य पञ्चलकारेषु रूपाणि दर्शयेत् परं | | | | | |
| | परीक्षायाम् न पृष्टव्यानि | | | | | |
| 10 | प्रत्ययाः | | | | | |
| • | 10.1 – क्त - क्तवत् ,तव्यत् – अनीयर् ,शतृ – शानच् , | | | | | |
| | ल्युट् - ण्वुल् ,क्त्वा - ल्यप् ,णिनि ,:क्तिन्, तुमुन् | | | | | Yes (1 |
| | प्रत्ययाणाम् प्रयोगाः एव पृष्टव्याः । | Ι | 10 | 3 | Yes (2 Que | que of 5 |
| | 10.2 - भावे घञ् ,करणे घञ् ,भावे ष्यञ् ,कर्मणि ण्यत् , | | | | of 1 mark) | marks) |
| | कर्त्तरी अच् अप् राज्ये संवित्यमं किर्णालयमं कारो/राज्ये/राज्ये/राज्ये/राज्ये/ | | | | | , |
| | आयुर्वेदसंहितायां विद्यमानानां भावे/करणे/कर्त्तीर/ताच्छील्ये/ | | | | | |
| | आदि प्रत्ययानां परिचय :करणीय : परं परीक्षायाम् न | | | | | |

| | पृष्टव्या : परीक्षायाम् वाच्य प्रयोग: स्वरुपे पृष्टव्य : | | | | | |
|----|---|----|----|---|--------------------------|----|
| 11 | विशेषण विशेष्य | II | 05 | 2 | Yes (3 Que of 1 mark) | No |

| | Paper II Sanskrit and Ayurved Itihas Part A Sanskrit List of Topics | B Term | C Mar | MCQ (1 | D Type of Questi "Yes" can be as 'No" should not be SAQ (5 Marks) | ked. |
|----|---|---------------------------|--|-----------|--|---|
| | | | ks | Mar k) | () | Marks) |
| 1 | निरुक्ति तथा पर्याय पदानि— A) आयुः ,शरीर, मन:, अग्नि,: जलम्, वात:, पित्तम्, कफ: B) रस, रक्त, मांस, मेद, अस्थि, मज्जा, शुक्र , इन्द्रियम्,श्रोत्र:, चक्षुः, रसना ,, घ्राण (C धी, धृति, स्मृति,बुद्धी, मति , प्रज्ञा ,मूत्र ,पुरीष:, स्वेद, आत्मा, रोग:,निदानम् ,रोगि ,:भेषजचिकित्सा , आदि | A -I B – II C- III | 15 | No | Yes (2 que of 5 marks) | Yes (1 que of 5 marks) |
| 2 | परिभाषापदानि — A) आयुर्वेद:, पञ्चमहाभूतानि, त्रिगुणम्, दोषा,: मला:, दूष्यम्, सम्सर्ग:, सन्निपात: B) द्रव्य,गुण, कर्म, सामान्य, विशेष, गुरु, लघु, प्रकृति:, विकृति:,चय:, प्रकोप:, प्रसर:, स्थानसम्श्रय:, दोषगति: भेद:, रस:, वीर्यम्, विपाक:, कार्यकारणभाव: C) स्रोतस्, कोष्ठ:, आमम्, विरुद्धाह्नम्, विरुद्धाहार:, विदाहि, विष्टम्भि, सात्म्यम्, ओकसात्म्यम्, देशसात्म्यम्, अत्यशनम्, अध्यशनम्, स्थानी, योगवाही, पथ्यम्, अपथ्यम्, कृतान्नवर्ग:, अवस्थापाक:, वेग:, शोधन,शमन, लंघन, बृहण, अनुपान आदि | A - I B - II C- III | 20 | No | Yes (2 que of 5 marks) | Yes (1 Que. of 10 marks) |
| 3. | अन्वयलेखनम् - A) अष्टाङ्गहृदयम् सूत्रस्थानम् —अध्यायत :सर्वाणि सूत्राणि १.आयुष्कामीयम् २.दिनचर्या ३.रोगानुत्पादनीयम् B) अष्टाङ्गहृदयम् सूत्रस्थानम् —अध्यायत :सर्वाणि सूत्राणि दोषादिविज्ञानीयम् दोषपेक्रमणीयम् दिविधोपक्रमणीयम् दिविधोपक्रमणीयम् दिविधोपक्रमणीयम् दिविधोपक्रमणीयम् 1, 2 दितीय: 1, 7 नुतीय: 9 | A- I B - II C - III | 30 (A B C 10 mark s each) | No | Yes (3 que of 5 marks) | Yes (1 Que. of 10 marks and 1 Que of 5 marks as part A of Que. 3) |

| | All Topics | | | Yes | No | No |
|----|-------------------------------------|-----|----|-----|---------------------------|-----------------|
| | Ayurved Itihas | | | | | |
| | Part B | | | | | |
| | | III | 15 | No | Yes (1 que of 5 marks) | of 10 marks) |
| 4. | पञ्चतन्त्र-अपरीक्षितकारकम् ५ अध्याय | | | | | Yes (1 que |
| | विंशति: , 12, 3, 4 | | | | | |
| | एकोनविंशति: 2, 3, 4 | | | | | |
| | अष्टादश: 1, 2, 3 | | | | | |
| | सप्तदश: 1, 4 | | | | | |
| | षोडश: 5, 6 | | | | | |
| | चतुर्दश: 2, 3, 4 पञ्चदश: 7, 10 | | | | | |
| | त्रयोदश: 1, 7, 8, 9 | | | | | |
| | द्वादश: 1, 6 | | | | | |
| | एकादश: 1, 2 | | | | | |
| | दशमः 1, 19 | | | | | |
| | नवम: 12, 13 | | | | | |
| | अष्टम: 13, 12 | | | | | |
| | सप्तम: 2, 5, 17 | | | | | |
| | षष्ठ: 1, 4, 7 | | | | | |
| | पञ्चम: 2, 3 | | | | | |
| | चतुर्थ: 2, 3 | | | | | |

6 G- Question paper blue print Paper I – Sanskrit

| А | В | С |
|----------------------------|------------------------|-----------------------|
| Question Sr. No | Type of Question | Question Paper Format |
| Q1 | Multiple choice | 1. Topic number 1 |
| | Questions | 2. Topic number 1 |
| | (MCQ) | 3. Topic number 1 |
| | 20 Questions | 4. Topic number 1 |
| | 20 Questions | 5. Topic number 1 |
| | 1 mark each | 6. Topic number 2 |
| | | 7. Topic number 2 |
| | All compulsory | 8. Topic number 2 |
| | | 9. Topic number 2 |
| | | 10. Topic number 2 |
| | Must know part 15 MCQ, | 11. Topic number 5 |
| | Desirable to know 3 | 12. Topic number 5 |
| MCQ. Nice to Know 2 MCQ | | 13. Topic number 5 |
| | | 14. Topic number 5 |
| | | 15. Topic number 5 |

| | | 16 Topic number 10 | | | | | |
|----|---|---|--|--|--|--|--|
| | | 16. Topic number 10 17. Topic number 10 | | | | | |
| | | 17. Topic number 10 18. Topic number 10 | | | | | |
| | | 19. Topic number 11 | | | | | |
| | | 20. Topic number 11 | | | | | |
| | | | | | | | |
| Q2 | Short answer Questions (SAQ) | Q1 Topic 6 अधोदत्तानां पदानां सन्धिं छित्वा वा योजयित्वा लिखत (5 Que x 1 marks each) | | | | | |
| | 8 questions 5 marks for each que. | Q2 Topic 7 अधोदत्तानां पदानां विग्रहवाक्यं समस्तपदं वा लिखत 5 Que x 1 | | | | | |
| | All compulsory | mark each | | | | | |
| | | Q3 Topic 4 - अधोदत्तै: अव्ययपदै: रिक्तस्थानम् पूरयत 5 Que x 1 mark | | | | | |
| | | each | | | | | |
| | | Q4 Topic 8 - शब्दरुपाणि लिखत (5 Que x 1 mark each) | | | | | |
| | Must know part 7 | Q5 Topic 3 - उपसर्गाः (स्व)वाक्येषु योजयत 5 Que x 1 mark each | | | | | |
| | questions, 1question on | Q6Topic 10 and 11- (स्व)वाक्येषु योजयत – 5 Que x 1 mark each | | | | | |
| | Desirable to know. No Questions on Nice to | Q7 Topic 9 - धातुरुपाणि लिखत 5 Que x 1 mark each | | | | | |
| | know. | Q8 Topic 5, 6 – अधोदत्ते श्लोके रेखाङ्गितानां पदानां कारकसंबंधं विशदीकृत्वा / | | | | | |
| | | निश्चयीकृत्वा तदनुसृत्य पदानां अर्थं लिखतु (shlokas should | | | | | |
| | | be taken from the syllabus.) 5 Que x 1 mark each 5 | | | | | |
| Q3 | Long answer Questions | Q1 Topic 8, 5 – उचितं शब्दरूपं विलिख्य वाक्ये योजयत 5 Que. X 2 mark | | | | | |
| | (LAQ) All compulsory | Q2 Topic 7 - अधोदत्तेषु श्लोकेषु रेखाङ्गितानां समस्तपदानां विग्रहवाक्यं समस्तपदम् | | | | | |
| | 4 questions | वा समासनाम्ना सह लिखत (Underline 5 Samast padas or | | | | | |
| | 10 marks for each que. | give 5 Vigrah vakyas from a 5 to 7 line passage or 2 to 3 shlokas from the syllabus.) 5 Que. X 2 marks Q3 Topic 6 - अधोदत्ते परिच्छेदे रेखाङ्गितानां सन्धिं छित्वा वा योजयित्वा सन्धि | | | | | |
| | | सूत्रम् च लिखत।(Underline 5 Sandhi padas or Sandhi | | | | | |
| | All questions on must | Vigrahas from a 5 to 7 line passage or 2 to 3 shlokas from the syllabus.) 5 Que. X 2 marks | | | | | |
| | know. | Q4 Topic 5, 9, 10 - | | | | | |
| | No Questions on Nice to know and Desirable to | अ) अधोदत्तस्य धातो: तव्यत् तुमुन् ल्यप् क्तवत् शतृ/शानच् | | | | | |
| | know. | प्रत्ययरूपाणि लिखत 5 Que. X 1 marks | | | | | |
| | | आ) वाच्य प्रयोगः 5 Que. X 1 marks | | | | | |
| | | (Sentences should be taken from syllabus Panchatantra.) | | | | | |

AyUG SN & AI : **Paper II – Sanskrit and Ayurved Itihas**

| А | В | С |
|----------|---|---|
| Question | Type of Question | Question Paper Format |
| Sr. No | | |
| Q1 | Multiple choice | All Questions From Ayurved Itihas.Paper II Part B |
| | Questions | 1. Topic number 1/2 |
| | (MCQ) | 2. Topic number 3/4 |
| | Ayurved Itihas | 3. Topic number 5/6 /7 /8 |
| | 20 Questions | 4. Topic number $9/10$ |
| | 1 mark each | 5. Topic number 1/2 |
| | 1 mark each | 6. Topic number 3/47. Topic number 5/6 /7 /8 |
| | All compulsory | 8. Topic number 9/10 |
| | All compution y | 9. Topic number 1/2 |
| | | 10. Topic number 3/4 |
| | | 11. Topic number 5/6 /7 /8 |
| | Must know part 15 MCQ, | 12. Topic number 9/ 10 |
| | Desirable to know 3 MCQ. | 13. Topic number 1/2 |
| | Nice to Know 2 MCQ | 14. Topic number 3/4 |
| | | 15. Topic number 5/6 /7 /8 |
| | | 16. Topic number 9/ 10 |
| | | 17. Topic number 1/2 |
| | | 18. Topic number 3/4 |
| | | 19. Topic number 5/6 /7 /8 |
| | | 20. Topic number 9/ 10 |
| Q2 | Short answer Questions | Topic number 3 अधोदत्तस्य श्लोकस्य पदच्छेदं लिखित्वा रेखाङ्गितानां पदानां |
| | (SAQ) Sanskrit All compulsory 8 questions 5 marks for each que. Must know part 7 questions, 1 question on Desirable to know. No Questions on Nice to know. | शब्दरुपाणि धातुरुपाणि वा लिखत |
| | | 2. Topic number 3 अधोदत्तस्य श्लोकस्य अन्वयम् अर्थम् च लिखत |
| | | 3. Topic number 2/3 अधोदत्तस्य श्लोकस्य अन्वयम् अर्थम् च लिखत |
| | | 4. Topic number 3/ 4 प्रयोगं विपरिणमयत 5 Que x 1 markeach |
| | | 5. Topic number 2 अधोदत्तानाम् टिप्पणिर्लिखत |
| | | 6. Topic number 1 शब्दस्य निरुक्तिं तथा पर्यायवचनानि च लिखत |
| | | 7. Topic number 3/4 संस्कृत भाषायां अनुवदत |
| | | 8. Topic number 3/4 मातृभाषायां अनुवदत |
| Q3 | Long answer Questions | 1. Topic 4 अधोदत्तकथाया: साराम्शं सम्स्कृत भाषायाम् लिखत or |
| | (LAQ) Somelumit | Comprehension. |
| | Sanskrit All compulsory | 2. Topic 2 अधोदत्तानाम् टिप्पणिर्लिखत $2x5$ (5 marks for each) |
| | 4 questions | 3. Topic 1, 3 |
| | 10 marks for each que. | A) प्रश्नानाम् पूर्णवाक्येन उत्तराणि लिखत। 5 Que.X 1 Mark for each |
| | | B) निरुक्तिं तथा पर्यायवचनानि च लिखत $\parallel 5$ Que. X 1 mark for each |
| | | |

| All questions on must know. No Questions on Nice to know and Desirable to know. | 4. | Topic 3 अधोदत्तस्य श्लोकस्य पदच्छेदं विग्रहवाक्यम् अन्वय: वाक्यार्थं शास्त्रार्थं च लिखत 5 Que. X 2 marks |
|---|----|--|
|---|----|--|

6 H - Distribution of Practical Exam

Practical 100 Marks – (Viva 75 + Elective 10 + IA 15) Marks

| SN | | Heads | Marks | |
|----|-------------------------|---|-------|--|
| Α | VIVA (7 | VIVA (75) | | |
| | 1 | 10 | | |
| | 2 | Shabdarupani and Karakani | 10 | |
| | 3 | Sandhi and Padachcheda, Dhaturupani | 10 | |
| | 4 | Samas | 5 | |
| | 5 | Paribhasha, Nirukti | 5 | |
| | 6 | Anvay | 10 | |
| | 7 | Constructing sentences and conversation | 10 | |
| | 8 | Compilation/ Record writing | 10 | |
| | | [Compilation/ Record writing book should contain | | |
| | | 1. Anvay | | |
| | | 2. Padachcheda | | |
| | | 3. Samas | | |
| | | 4. Shabdarupani | | |
| | | 5. Dhaturupani | | |
| | | 6. Bhavarth | | |
| | | Of the 40 shlokas from Sanskrit Paper 2 topic numbers 3 A and B Ashtanga Hridayam and ten verses from Charak Samhita Sutrasthan 5 and 6 from Samhita Adhyayan - 1 subject.] | | |
| | 9 | Communication Skill | 5 | |
| В | Internal Asessment (15) | | 15 | |
| С | Electives | Electives (10) | | |
| | | Total Marks | 100 | |

7. References/ Resourses Sanskrit

Books

- संस्कृतपाठ्यपुस्तकम् प्रथम: तथा द्वितीयभाग:- Sanskrit for Ayurveda part- I and Part –II Published by CCIM New Delhi
- 2. आयुर्वेदस्य भाषा-पञ्चभागा:- Ayurvedasya bhaSha part I to part –V samskrita samvardhana prathisthan mumbai
- 3. लघुसिद्धान्तकौमुदि: वरदराज Laghusiddhantakaumudi of bhattojidikshita
- 4. सिद्धन्तकौमुदि भट्टोजिदीक्षित: siddhantakaumudi
- 5. वैद्यकीयसुभाषितसाहित्यम् Vaidyakiyasubhashitasahityam, भास्कर गोविन्द घाणेकर, चौखम्बा प्रकाशन
- 6. पन्तन्त्रम् अपरीक्षितकारकम् Pancatantra aparikshitakarakam 1 to 5 stories
- 7. शब्दकल्पद्रुम: Sabdakalpadruma:
- 8. वाचस्पत्यम्- Vachaspatyam
- 9. अमरकोश:- Amarakosha
- 10. सिद्धारूपम् Siddharupam
- 11. धातुपाठ:- Dhatupatha
- 12. Sanskrit to English and English to Sanskrit Dictionary Monier Williams
- 13. Sanskrit to Hindi and Hindi to Sanskrit Dictionary Va. Shi. Apte
- 14. Sanskrit to Regional/ Desirable language dictionaries.
- 15. Ayurvediya Shabdakosha
- 16. Encyclopedic dictionary of Ayurveda Dr. Kanjiv Lochan, Dr. P.S. Byadgi (Chaukhambha Publications)

Online Recourses:-

- Crossword Online <u>https://crosswordlabs.com/</u>
- Readymade Sanskrit Puzzles <u>http://webapps.samskrutam.com/tools/CrosswordPuzzle.aspx</u>
- Learning Sanskrit Pronunciation 1

https://www.sanskrit-trikashaivism.com/en/learning-sanskrit-pronunciation-1-1/456

• Pronunciation of all Sanskrit letters.....

sanskritdocuments.org http://sanskritdocuments.org/learning_tools/sarvanisutrani/allsutrani.htm sanskrit.jnu.ac.in http://www.taralabalu.org/panini/greetings.htm

• Vyakarana –

https://sites.google.com/site/samskritavyakaranam/

- कोशाः / Dictionaries -
- Cologne Digital Sanskrit Lexicon: <u>https://www.sanskritlibrary.org/cologne.html</u>

https://www.sanskritdictionary.com/

www.monierwilliams.com

- Sanskrit Computational tools Samsadhani-<u>https://sanskrit.uohyd.ac.in/scl/</u>
- Learning <u>https://www.learnsanskrit.cc/</u>
- The Sanskrit Heritage Site <u>https://sanskrit.inria.fr/</u>
- Sanskrit Dictionary for Spoken Sanskrit <u>www.learnsanskrit.cc</u> <u>https://spokensanskrit.org/index.php?mode=3&direct=es&script=hk&tran_input=name</u>

Ayurved Itihas

Reference book

1. Upodghata of Kashyapasamhita (Paragraph of acceptance of Indian medicine) Rajguru Hem Raj Sharma 2. Upodghata of Rasa Yogasagar Vaidya Hariprapanna Sharma 3. Ayurveda Ka Itihas KaviraSuram Chand 4. Ayurveda Sutra Rajvaidya Ram Prasad Sharma 5. History of Indian Medicine (1-3 part) Dr. GirindrNath Mukhopadhyaya 6. A Short history of Aryan Medical Science **Bhagwat Singh** 7. History of Indian Medicine J. Jolly 8. Hindu Medicine Zimer 9. Classical Doctrine of Indian Medicine Filiyosa 10. Indian Medicine in the classical age AcharyaPriyavrata Sharma 11. Indian Medicine (Osteology) Dr. Harnlev 12. Ancient Indian Medicine Dr. P. Kutumbia 13. Madhava Nidana and its Chief Commentaries (Chapters highlighting history) Dr. G.J. Mulenbelt 14. Avurveda Ka BrihatItihasa Vaidya Atridev Vidyalankara 15. Ayurveda Ka VaigyanikaItihasa Acharya Priyavrata Sharma 16. Ayurveda Ka PramanikaItihasa Prof. Bhagwat Ram Gupta 17. History of Medicine in India Acharya Priyavrata Sharma 18. Vedome Ayurveda Vaidya Ram GopalS hastri 19. Vedomein Ayurveda Dr. Kapil Dev Dwivedi 20. Science and Philosophy of Indian Medicine Dr. K.N. Udupa 21. History of Indian Medicine from Pre-Mauryan to Kushana Period Dr. Jyotirmitra 22. An Appraisal of Ayurvedic Material in Buddhist literature Dr. Jyotirmitra 23. Mahayana Granthon mein nihita Ayurvediya Samagri Dr. RavindraNathTripathi 24. Jain Ayurveda Sahitya Ka Itihasa Dr. Rajendra Prakash Bhatnagar 25. Ayurveda- Prabhashaka Jainacharya Acharya Raj Kumar Jain 26. CharakaChintana Acharya Priyavrata Sharma 27. Vagbhata Vivechana Acharva Privavrata Sharma Dr. Karambelkara 28. Atharvaveda and Ayurveda 29. Ayurvedic Medicine Past and Present Pt. Shiv Sharma 30. Ancient Scientist Dr. O.P. Jaggi 31. Luminaries of Indian Medicine Dr. K.R. Shrikanta Murthy 32. Ayurveda Ke Itihasa Ka Parichaya Dr. RaviduttaTripathi 33. Ayurveda Ke Pranacharya Ratnakara Shastri 34. Ayurveda Itihasa Parichaya Prof. Banwari Lal Gaur

COURSE CURRICULUM FOR FIRST PROFESSIONAL BAMS

(PRESCRIBED BY NCISM)



KRIYA SHARIRA (SUBJECT CODE- AyUG-KS) HUMAN PHYSIOLOGY

(Applicable from 2021-22 batch onwards for 5 years or until further notification by NCISM, whichever is earlier)



BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110058



Kriya

NCISM I professional Ayurvedcharya (BAMS)

Subject Code: AyUG KS

Kriya Sharir

Summary

| Total numb | AyUG KS her of Teaching hou | ars: 600 | | |
|-------------------------------------|--------------------------------|-----------|--------------------|--|
| Lecture hours (LH) - Theory | | | 150 Hours | |
| Paper I | 75 Hours | 150 Hours | | |
| Paper II | 75 Hours | | (LH) | |
| Non-Lecture hours (NLH) – Theory | | | | |
| Paper I | 25 Hours | 50 Hours | 250 Hours (NLH) | |
| Paper II | 25 Hours | | | |
| Non-Lecture hours (NLH) - Practical | | 200 Hours |] | |

| | AyUG K Examination (Papers & N | | 1) | |
|-------------|-----------------------------------|---------------------------|------|----|
| Item | Theory Component Marks | Practical Component Marks | | |
| | | Practical | Viva | IA |
| Paper I | 100 | 100 | 70 | 30 |
| Paper II | 100 | 100 | 70 | |
| Sub-Total | 200 | 200 | | |
| Total marks | 400 | | | |

Preface

Kriya Sharir (Human Physiology) is an important subject of the BAMS program for the undergraduate students of Ayurveda. The term sharir means 'in the sharir' or 'related to the sharir' thus Sharir Kriya deals with the study of the human body concerning its physiological norms i.e., the functioning of the human body in its normal state. This subject refers to the physiology and biochemistry of contemporary medical science.

The swasthya of an individual is based on 3 pillars of the body i.e., dosha, dhatu & mala. Kriya Sharir subject mainly deals with these 3 pillars. The basic concepts, knowledge, and applicability of Tridosha (Vata, Pitta, Kapha), Sapta Dhatus (Rasa, Rakta, Mamsa, Meda, Asthi, Majja, Shukra), and Trimala (Mutra, Purish, Sweda) are very important in the critical understanding of the disease. Kriya Sharir also deals with Prakriti, Strotas, Kostha, Agni, Oja, Mana, Aahar (Basic principles of food), shatkriyakal, the system-wise study of contemporary science, senses function and dysfunction, etc. All these fundamental topics are essential for the proper understanding of etiopathogenesis, diagnosis of disease, and its management which will be covered in para-clinical and clinical subjects.

New curriculum of Kriya Sharir is designed considering cognitive, affective, and psychomotor domains. There are group discussions, workshops, field visits, and activities beyond the textbook during the practical hours like preparation of charts, models, seminar presentations by students. Kriya Sharir subject also deals with teaching-learning methods like role play, flipped the classroom, etc. Some assessment methods like OSPE, PBL, DOPS, CBD, skill assessment, etc are incorporated. The main aim of the curriculum is to highlight the basic knowledge and to give a new scientific approach to undergraduate students to develop their skills of Ayurveda and make them competent to apply in clinical practice and research.

Index

| Course Code and Name of Course | 5 |
|---|----|
| AyUG KS | 5 |
| Kriya Sharir (Human Physiology) | 5 |
| Table 1- Course learning outcomes and matched PO. | 5 |
| Table 2 : Contents of Course AyUG KS | 7 |
| Paper I – AyUG-KS | 7 |
| Paper II – AyUG-KS | 9 |
| Table 3: Learning objectives (Theory) of Course AyUG-KS | 12 |
| PAPER I | 12 |
| PAPER II | |
| List of Practicals | 53 |
| Table 4: Learning objectives (Practical) of AyUG- KS | 54 |
| Table 5: Non-Lecture Activities Course AyUG- KS | 61 |
| Table 6: Assessment Summary | 63 |
| 6 A- Number of papers and Marks Distribution | 63 |
| 6 B - Scheme of Assessment (formative and Summative) | 63 |
| 6 C - Calculation Method for Internal assessment Marks (30 Marks) | 63 |
| 6 D - Evaluation Methods for Periodical Assessment | 64 |
| 6 E- Paper Layout | 64 |
| Paper-I | 64 |
| Paper-II | 64 |
| 6 F- Disribution of Theory Exam | 65 |
| Paper I | 65 |
| Paper II | 66 |
| 6 G- Question paper blue print | 67 |
| Paper I | 67 |
| Paper II | 68 |
| 6 H Distribution of Practical Exam | 69 |
| 7. References / Resourses | 71 |

Course Code and Name of Course

| Course code | Name of Course |
|-------------|---------------------------------|
| | |
| AyUG KS | Kriya Sharir (Human Physiology) |
| | |

AyUG KS Course

Table 1- Course learning outcomes and matched PO.

| SR1 | A1 | B1 |
|------|---|-----------------|
| СО | Course learning Outcomes (CO) AyUG KS | Course learning |
| No | At the end of the course AyUG-KS, the student should be able to- | Outcomes |
| | | matched with |
| | | program |
| | | learning |
| | | outcomes. |
| CO 1 | Explain all basic principles & concepts of Kriya Sharir along with | PO1, PO2 |
| | essentials of contemporary human physiology and biochemistry related | |
| | to all organ systems. | |
| CO 2 | Demonstrate and communicate normal and abnormal variables | PO2, PO3 |
| | pertaining to Kriya Sharir such as Sara, Agni, Koshtha, Srotas etc. | |
| CO 3 | Differentiate between Prakriti and Vikriti in the individuals after | PO1, PO2, PO3, |
| | carrying out relevant clinical examinations. | PO5 |
| CO 4 | Carry out clinical examination and experiments using equipments with | PO4 |
| | interpretation of their results | |
| CO 5 | Differentiate the strengths & limitations of Ayurved and contemporary | PO2 |
| | sciences | |
| CO 6 | Present a short project work / research activity covering the role of | PO5, PO6, PO7, |
| | Kriya Sharir in preventive and promotive healthcare. | PO8, PO9 |
| CO 7 | Show a sense of curiosity and questioning attitude towards the life | PO2, PO5, PO6, |
| | processes and to display compassion and ethical behaviour | PO7, PO9 |
| CO 8 | Effectively communicate verbally and in writing preferably using | PO8, PO9 |
| | Ayurvedic terminology along with contemporary terminology among | |
| | peers, teachers and community | |

Table 2 : Contents of Course AyUG KS

| Pap | er I – AyUG-KS | | | | |
|----------|--|------------|-------------|------------------------|--------------------------------|
| Sr No | A2 List of Topics AyUG-KS Paper I | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
| PA | RT-A (Marks-60) | | | I | |
| 1 | Sharir: Definition and synonyms of term Kriya, Sharir & Shaarir. Description of Sharir Dosha and Manasa Dosha. Mutual relationship between Triguna-Tridosha & Panchmahabhuta. | I | | 2 | 1 |
| 2 | Basic principles of Ayurveda: Dosha dhatu mala mulam hi shariram. Description of basics of Srotas | Ι | | 2 | 1 |
| 3. | Tridosha: General description of Tridosha. Inter relationship between Ritu-Dosha-Rasa- Guna. Biological rhythms of Tridosha on the basis of day-night-age-season and food intake. Role of Dosha in the formation of Prakriti of an individual and in maintaining of health. Prakrita and Vaikrita Dosha. | I | - 08 | 3 | 0 |
| 4. | Vata Dosha: Vyutpatti (derivation), Nirukti (etymology) of the term Vata, general locations, general properties and general functions of Vata, five types of Vata (Prana, Udana, Samana, Vyana, Apana) with their specific locations, specific properties, and specific functions. | I | | 6 | 2 |
| 5. | Pitta Dosha: Vyutpatti, Nirukti of the term Pitta, general locations, general properties and general functions of Pitta, five types of Pitta (Pachaka, Ranjaka, Alochaka, Bhrajaka, Sadhaka) with their specific locations, specific properties, and specific functions. Similarities and differences between Agni and Pitta. | Ι | | 5 | 1 |
| 6. | Kapha Dosha: Vyutpatti, Nirukti of the term Kapha, general locations, general properties and general functions of Kapha, five types of Kapha (Bodhaka, Avalambaka, Kledaka, Tarpaka, Śleshaka) with their specific locations, specific properties, and specific functions. | П | 26 | 4 | 1 |
| 7. | Dosha Vriddhi-Kshaya: Etiological factors responsible for Dosha Vriddhi, Dosha Kshaya and their manifestations. | II | | 1 | 1 |
| 8. | Kriyakala: Concept of Kriyakala, applied physiology of diseases produced due the vitiation of vata, pitta and kapha. | II | | 1 | 1 |
| 9 | Prakriti: Deha- Prakriti: Vyutpatti, Nirukti, various definitions and synonyms for the term "Prakriti". Intra-uterine and extra- uterine factors influencing Deha-Prakriti, classification and characteristic features of each kind of Deha-Prakriti. Manasa- Prakriti: Introduction and types of Manasa- Prakriti | II | | 7 | 3 |
| 10. | Ahara: Definition, classification and significance of Ahara, | III | | 3 | 1 |

| | Ahara-vidhi-vidhana, Ashta Aharavidhi Viseshayatana, | | | | |
|-----|---|-----|----|---|---|
| | Ahara Parinamkar Bhava. | | | | |
| 11. | Agni : Definition and importance, synonyms, classification, location, properties and functions of Agni and functions of Jatharagni, Bhutagni, and Dhatvagni. | III | 26 | 4 | 1 |
| 12. | Aharapaka (Process of digestion): Description of Annavaha Srotas and their Mula. Description of Avasthapaka (Madhura, Amla and Katu). Description of Nishthapaka (Vipaka) and its classification. Role of Grahani & Pittadhara Kala. Separation of Sara and Kitta. Absorption of Sara. Genesis of Vata-Pitta-Kapha during Aharapaka process. Definition of the term Koshtha. Classification of Koshtha and the characteristics of each type of Koshtha. | III | | 7 | 2 |
| PAR | T-B (Marks-40) | | | | I |
| 1 | Physiology Homeostasis : Definition and mechanisms of maintenance of homeostasis. Cell physiology. Membrane physiology. Transportation of various substances across cell membrane. Resting membrane potential and action potential. Acid-base balance, water and electrolyte balance. Study of basic components of food. | Ι | | 5 | 1 |
| 2 | Physiology of Respiratory system : functional anatomy of respiratory system. Definition of ventilation, mechanism of respiration, exchange and transport of gases, neural and chemical control of respiration, artificial respiration, asphyxia, hypoxia. Introduction to Pulmonary Function Tests. | п | 23 | 5 | 2 |
| 3 | Physiology of Gastrointestinal system : Functional anatomy of gastro-intestinal tract, mechanism of secretion and composition of different digestive juices. Functions of salivary glands, stomach, liver, pancreas, small intestine and large intestine in the process of digestion and absorption. Movements of the gut (deglutition, peristalsis, defecation) and their control. Enteric nervous system. Digestion and metabolism of proteins, fats and carbohydrates. Vitamins & Minerals- sources, daily requirement, functions, manifestations of hypo and hypervitaminosis. | п | | 7 | 2 |
| 4 | Physiology of Nervous System : General introduction to nervous system, neurons, mechanism of propagation of nerve impulse, physiology of CNS, PNS, ANS; physiology of sensory and motor nervous system, Functions of different parts of brain and physiology of special senses, intelligence, memory, learning and motivation. Physiology of sleep and dreams, EEG. Physiology of speech and articulation. Physiology of temperature regulation. | III | 17 | 7 | 3 |
| 5 | Physiology of Endocrine glands : General introduction to endocrine system, classification and characteristics of hormones, physiology of all endocrine glands, their functions and their effects. | III | | 6 | 2 |

| Paper II – AyUG-KS | Paper | II – | AvUG | -KS |
|--------------------|-------|------|------|-----|
|--------------------|-------|------|------|-----|

| | A2 List of Topics Paper II | B2 Term | C2 Marks | D2 Lecture hours | E2 Non- Lecture hours |
|----|---|------------|-------------|------------------------|--------------------------------|
| PA | RT-A (Marks-60) | | | | nouis |
| 1 | Dhatu : Etymology, derivation, definition, general introduction of term Dhatu, different theories related to Dhatuposhana (Dhatuposhana Nyaya) | I | | 2 | 1 |
| 2 | Rasa Dhatu : Etymology, derivation, location, properties, functions and Praman of Rasa-dhatu. Physiology of Rasavaha Srotas, Formation of Rasa Dhatu from Aahara Rasa, circulation of Rasa (Rasa-Samvahana), role of Vyana Vayu and Samana Vayu in Rasa Samvahana. Description of functioning of Hridaya. Ashtavidha Sara, characteristics of Tvakasara Purusha, conceptual study of Aashraya-Aashrayi Bhaava and its relation to Rasa and Kapha. Manifestations of kshaya and Vriddhi of Rasa | I | | 4 | 1 |
| 3. | Rakta Dhatu : Etymology, derivation, synonyms, location, properties, functions and Praman of Rakta Dhatu. Panchabhautikatva of Rakta Dhatu, physiology of Raktavaha Srotas, formation of Raktadhatu, Ranjana of Rasa by Ranjaka Pitta, features of Shuddha Rakta, specific functions of Rakta, characteristics of Raktasara Purusha, manifestations of Kshaya and Vriddhi of Raktadhatu, mutual interdependence of Rakta and Pitta. | I | 18 | 3 | 1 |
| 4. | Mamsa Dhatu: Etymology, derivation, synonyms, location, properties and functions of Mamsa Dhatu, physiology of Mamsavaha Srotas, formation of Mamsa Dhatu, characteristics of Mamsasara Purusha, manifestations of Kshaya and Vriddhi of Mamsa Dhatu, Concept of Peshi. | I | - | 2 | 1 |
| 5. | Meda Dhatu: Etymology, derivation, location, properties, functions and Praman of Meda Dhatu, physiology of Medovaha Srotas, formation of Medo Dhatu, characteristics of Medasara Purusha and manifestations of Kshaya and Vriddhi of Meda. | I | - | 3 | 1 |
| 6. | Asthi Dhatu: Etymology, derivation, synonyms, location, properties, functions of Asthi Dhatu. Number of Asthi. Physiology of Asthivaha Srotas and formation of Asthi Dhatu, characteristics of Asthisara Purusha, mutual interdependence of Vata and Asthi Dhatu, manifestations of Kshaya and Vriddhi of Asthi Dhatu. | п | 19 | 2 | 1 |
| 7. | Majja Dhatu : Etymology, derivation, types, location, properties, functions and Praman of Majjaa Dhatu, physiology of Majjavaha Srotas, formation of Majja Dhatu, characteristics of Majja Sara Purusha, relation of Kapha, Pitta, Rakta and Majja, manifestations of Kshaya and Vriddhi of | п | | 3 | 1 |

| | Majja Dhatu. | | | | |
|-----|--|-----|----|---|---|
| 8. | Shukra Dhatu: Etymology, derivation, location, properties, functions and Praman of Shukra Dhatu, physiology of Shukraravaha Srotas and formation of Shukra Dhatu. Features of Shuddha Shukra, characteristics of Shukra-Sara Purusha, manifestations of Kshaya and Vriddhi of Shukra Dhatu. | П | | 3 | 1 |
| 9 | Concept of Ashraya-Ashrayi bhava i.e. inter-relationship among Dosha, Dhatu Mala and Srotas. Applied physiology of diseases asserting saptadhatu enlisted under dhatu pradoshaj vikar. | Π | | 1 | 1 |
| 10. | Ojas : Etymological derivation, definition, formation, location, properties, Praman, classification and functions of Ojas. Description of Vyadhikshamatva. Bala Vriddhikara Bhava. Classification of Bala. Etiological factors and manifestations of Ojavisramsa, Vyapat and Kshaya. | II | | 3 | 1 |
| 11. | Upadhatu: General introduction, etymological derivation and definition of the term Upadhatu. Formation, nourishment, properties, location and functions of each Upadhatu. Stanya: Characteristic features and methods of assessing Shuddha and Dushita Stanya, manifestations of Vriddhi and Kshaya of Stanya. Artava: Characteristic features of Shuddha and Dushita Artava. Differences between Raja and Artava, physiology of Artavavaha Srotas. Tvak: classification, thickness of layer and functions. | П | | 6 | 1 |
| 12. | Mala: Etymological derivation and definition of the term Mala. Aharamala: Enumeration and description of the process of formation of Aharamala. Purisha: Etymological derivation, definition, formation, properties, quantity and functions of Purisha. Physiology of Purishavaha Srotas, manifestations of Vriddhi and Kshhaya of Purisha. Mutra: Etymological derivation, definition, formation, properties, quantity and functions of Mutra. Physiology of Mutravaha Srotas, physiology of urine formation in Ayurveda, manifestations of Vriddhi and Kshhaya of Mutra. Sveda: Etymological derivation, definition, formation and functions of Sveda. Manifestations of Vriddhi and Kshaya of Sveda. Discription of Svedvaha Srotas Dhatumala: Brief description of each type of Dhatumala. | III | 23 | 6 | 2 |
| 13 | Indriya vidnyan : Physiological description of Panchagyaanendriya and physiology of perception of Shabda, Sparsha, Rupa, Rasa and Gandha. Physiological description of Karmendriya. | III | | 1 | 1 |
| 14 | Manas : Properties, functions and objects of Manas. Physiology of Manovaha Srotas. | III | | 2 | 1 |
| 15 | Atma : Properties of Atma. difference between Paramatma and Jivatma; Characteristic features of existence of Atma in living body. | III | | 2 | 0 |
| 16 | Nidra & Swapna : Nidrotpatti, types of Nidra, physiological and clinical significance of Nidra; Svapnotpatti and types of Svapna. | III | | 2 | 0 |

| PAR | T-B (Marks-40) | | | | |
|-----|---|-----|----|---|---|
| 1 | Haemopoetic system : composition, functions of blood and blood cells, Haemopoiesis (stages and development of RBCs, and WBCs and platelets), composition and functions of bone marrow, structure, types and functions of haemoglobin, mechanism of blood clotting, anticoagulants, physiological basis of blood groups, plasma proteins, introduction to anaemia and jaundice. | I | | 5 | 2 |
| 2 | Immunity : classification of immunity: Innate, acquired and artificial. Different mechanisms involved in immunity: Humoral (B-cell mediated) and T-Cell mediated immunity. Hypersensitivity. | I | 18 | 2 | 0 |
| 3 | Physiology of cardio-vascular system : Functional anatomy of cardiovascular system. Cardiac cycle. Heart sounds. Regulation of cardiac output and venous return. Physiological basis of ECG. Heart-rate and its regulation. Arterial pulse. Systemic arterial blood pressure and its control. | Ι | | 5 | 2 |
| 4 | Muscle physiology : comparison of physiology of skeletal muscles, cardiac muscles and smooth muscles. Physiology of muscle contraction. | II | | 2 | 0 |
| 5 | Adipose tissue: lipoproteins like VLDL, LDL and HDL triglycerides. Functions of skin, sweat glands and sebaceous glands. | II | 07 | 2 | 1 |
| 6 | Physiology of male and female reproductive systems: Description of ovulation, spermatogenesis, oogenesis, menstrual cycle. | II | | 5 | 2 |
| 7 | Physiology of Excretion : functional anatomy of urinary tract, functions of kidney. Mechanism of formation of urine, control of micturition. Formation of faeces and mechanism of defecation. | III | 15 | 4 | 2 |
| 8 | Special Senses, Sleep and Dreams : Physiology of special senses. physiology of sleep and dreams | III | | 5 | 1 |

| A3 Course putcome | B3 Learning Objective (At the end of the session, the Students should be able to) | C3 Domain/sub | D3 Must to know/ desirable to know/Nice to know | E3 Level Does/ Shows how/ Knows how/ Know | F3 T-L method | G3 Assessment | H3 Formative /summative | I3 Term | J3 Integration | |
|-------------------------|--|---|---|--|-----------------------|--|-------------------------------|------------|-------------------|--|
| | Paper I (Part A) (60 | Hours) | | | | | | | | |
| | Topic 1 – <i>Sharir</i> (huma | n body) (3 hr) [Lect | ure: 2 hours, no | n-lecture: 1 ho | our] | | | | | |
| CO 1 | Explain the definition and synonyms of the term <i>kriya</i> , <i>sharira</i> and <i>shaarira</i> | Cognitive (recall, comprehension) | Mk | K | Lecture | Written/ (MCQ, MEQ, LAQ, SAQ) Viva voce | F & S | Ι | | |
| CO 2 | Enlist the <i>sharira</i> <i>dosha</i> and <i>manasa</i> <i>dosha</i> and | Cognitive (recall, comprehension) | Mk | K | Lecture Discussion | Written/ Viva voce | F & S | Ι | | |
| CO 1 | Explain mutual relationship between <i>triguna</i> , <i>panchmahabhuta</i> and <i>tridosha</i> | Cognitive (comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | | |
| | Topic 2 – Basic Principles of Kriya Sharir (3 hr) [Lecture: 2 hours, non-lecture: 1 hour] | | | | | | | | | |
| CO 1 | Express critical view of why <i>dosha- dhatu-</i> <i>mala</i> are described in specific numbers. | Cognitive (recall) | Dk | Kh | Discussion | Written | F | Ι | | |
| CO 1 | Explain the principle of "dosha-dhatu-mala mulam hi shariram". | Cognitive (recall) | Mk | Kh | Lecture Discussion | Written | F & S | Ι | | |
| CO 1 | Discuss term homeostasis in <i>dosha-</i> | Cognitive (comprehension) | Dk | Kh | Discussion | Viva voce | F | Ι | | |

| | dhatu-mala. | | | | | | | | |
|------|---|--|----------------|----------------|---|-----------------------|-------|---|-------------------|
| CO 1 | Explain role of <i>srotas</i> in the body. | Cognitive (comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Explain the basic concept of <i>srotas</i> and classify different <i>srotas</i> based on Rachana (morphological), <i>kriya</i> (functions) and <i>guna</i> (properties) | Cognitive (comprehension) | Mk | Kh | Lecture Discussion Flipped classroom | Written/ Viva voce | F & S | I | Rachana sharir |
| CO 1 | Describe the significance of the knowledge of <i>srotas</i> in <i>kriya sharira</i> | Cognitive (comprehension) | Mk | Kh | Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Compare <i>mula sthana</i> of <i>srotas</i> described in <i>samhitas</i> in view of <i>kriya sharir</i> and contemporary medical science | Cognitive (application) | Dk | Kh | Model Discussion Tutorial Assignment | Viva voce | F & S | I | |
| CO 1 | Find out similarities and differences between <i>srotas</i> and system of contemporary science. | Cognitive (application) | Nk | Kh | Discussion Self-learning Think-Pair- Share | Short notes | F | Ι | |
| CO 1 | Document observations on correlation of anyone environmental global change and physiological variation as per Ayurved, contemporary sciences. | Cognitive (application) | Nk | Kh | Discussion Self-learning Think-Pair- Share | Short notes | F | Ι | |
| CO 1 | Recognize the contribution of Ayurveda in the formation of four basic principles of Bioethics mentioned in contemporary science. | Cognitive (recall) (comprehension) | Nk | Kh | Lecture Discussion | Written | F | Ι | |
| | Topic 3 – <i>Tridosha</i> (Thr | ee humors of the bo | ody) (3 hr) [L | ecture: 3 hour | s, non-lecture: 0 ho | urs] | | | |
| CO 1 | Describe <i>utpatti</i> | Cognitive | Mk | K | Lecture | Written/ | F & S | I | |

| | (prasad & malabhuta), locations of dosha. | (recall) | | | | Viva voce | | | |
|------|--|------------------------------|----|----|------------------------------------|-----------------------|-------|---|--------------------------------------|
| CO 1 | State biological rhythms or circadian cycle of <i>tridosha</i> based on day-night-age- season food intake and relation to the environment | Cognitive (comprehension) | Mk | Kh | Lecture discussion Seminar | Written/ Viva voce | F & S | I | |
| CO 1 | Explain the applied role of <i>dosha</i> in maintaining health and State of equilibrium and recognize the role of <i>dosha</i> in the formation of <i>prakriti</i> of an individual | Cognitive (comprehension) | Mk | Kh | Lecture discussion Seminar | Written/ Viva voce | F & S | I | |
| CO 1 | State importance of dosha in lifestyle management and mutual relationship between ritu-kala- dosha-rasa-guna | Cognitive (application) | Nk | Kh | Discussion PBL | Viva voce | S | I | |
| CO 1 | Interpret <i>gurvadi guna</i> of <i>dosha</i> in term of applied physiology and clinical aspect in different chapters of Charak. | Cognitive (application) | Nk | Kh | Discussion PBL/CBD | Written | F | I | Padartha Vijnana. Kayachikitsa |
| CO 1 | Interpret <i>sama</i> & <i>niram</i> lakshana of dosha | Cognitive (comprehension) | Dk | Kh | Discussion | Written | F | Ι | |
| CO 1 | Discuss the evidences of functional significance of <i>vata</i> , <i>pitta</i> and <i>kapha</i> in perspective of nervous, endocrine, immune or any other system. | Cognitive (application) | Nk | Kh | Discussion Think-Pair- Share | Self- assessment | SA | I | |
| CO 1 | Discuss how to examine vruddhi- kshaya of dosha | Cognitive (comprehension) | Dk | Kh | Discussion PBL | Viva voce | S | Ι | |
| CO 1 | State materialism and | Cognitive | Mk | Kh | Discussion | Viva voce | F | Ι | |

| | immaterialism of tridosha | (comprehension) | | | | | | | |
|------|--|--|---------------|--------------|--|--|-------|---|--------------------------------|
| | Topic 4 – Vata dosha (8 | hr) [Lecture: 6 hou | rs, non-lectu | re: 2 hours] | | | | | |
| CO 1 | Define the <i>vyutpatti</i> and <i>nirukti</i> of <i>vata</i> . | Cognitive (Recall) | Mk | K | Lecture | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe <i>guna</i> and general locations of <i>vata dosha</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe general properties & functions of <i>vata dosha</i> and demonstrate the normal <i>guan, karma of vata</i> <i>dosha</i> in a healthy person. | Cognitive (Comprehension) | Mk | Kh/Sh | Lecture Discussion | Written/ Viva voce | F & S | I | Rognidan Vikriti Vidnyan |
| CO 1 | Enlist five types of <i>vata</i> and describe <i>prana, udana vata</i> with their specific locations, properties and functions. | Cognitive (Recall & Comprehension) | Mk | Kh | Lecture Confusion technique Demonstration Chart, Model | Written/ Viva voce Skill assessment | F & S | I | |
| CO 1 | Explain the term nishwas, ucchwas, shwasan & describe the role of prana vayu & udana vayu in shwasan prakriya. | Cognitive (Comprehension) | Mk | Kh | Lecture | Written/ Viva voce | F & S | I | |
| CO 1 | Describe <i>shwasan</i> <i>prakriya</i> according to <i>sharangadhar</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Model, Video | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe clinical importance of classification of <i>swara</i> and <i>vyanjana</i> according to their <i>uccharana sthan</i> . | Cognitive (Application) | Nk | Sh | Demonstration Discussion Assignment PBL/CBL | Self- assessment | SA | I | Sanskrit |
| CO 1 | Describe the formation and articulation of <i>shabda</i> (words) and explain the bio- physiology of | Cognitive (Comprehension) | Dk | Kh | Lecture A/V aids. | Written/ Viva voce | F & S | I | |

| | induction of <i>vaak</i> and role of <i>udaan vaayu</i> in it. | | | | | | | | |
|------|---|------------------------------|----|----|--|-----------------------|-------|---|---------------|
| CO 1 | Explain role of pranayama, puraka, rechaka and kumbhaka in samyaka shwasana, swara/ ghosha utpatti | Cognitive (Analysis) | Nk | Sh | Demonstration Discussion Assignment PBL/CBL | Self- assessment | SA | I | Swasthavrutta |
| CO 1 | Describe <i>samana</i> with their specific locations, properties and functions. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Confusion technique Demonstration Chart, Model | Written/ Viva voce | F & S | I | |
| CO 1 | Describe <i>vyana vata</i> with their specific locations, properties and functions. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Confusion technique Demonstration Chart, Model | Written/ Viva voce | F & S | I | |
| CO 1 | Describe role of vyana vayu & samana vayu in the process of rasa- samvahanana | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Seminar | Written/ Viva voce | F & S | I | |
| CO 1 | Review the contribution of <i>vyan</i> <i>and saman vayu</i> in the process of cardiac circulation. | Cognitive (Comprehension) | Dk | К | Discussion | Written/ Viva voce | F | Ι | |
| CO 1 | Interprete microbiota, gut brain axis for understanding enteric nervous system in perspective of <i>vata</i> , <i>saman vayu</i> . | Cognitive (Comprehension) | Nk | К | Discussion | Self- assessment | SA | I | |
| CO 1 | Describe <i>Apana vata</i> with their specific locations, properties and functions. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Confusion technique Demonstration | Written/ Viva voce | F & S | I | |

| CO 1 | Document & discuss your observations on correlation of functions of <i>apana vayu</i> with which type of nervous system & why? | Cognitive (Comprehension) | Nk | K | Discussion | Self- assessment | SA | I | |
|------|--|------------------------------|------------------|---------|--|--|-------|----|---------------------|
| CO 1 | Illustrate gati (directions) of types of vata by using lebel diagramme. | Cognitive (analysis) | Dk | Kh | Illustration | Self- assessment Peer evaluation. | SA | Ι | |
| CO3 | Explain difference between kshaya & vriddhi lakshana of vata Dosha | Cognitive (Comprehension) | МК | Kh | Chalk-board Presentation Symposium Discussion | Written/ Viva voce | F & S | I | |
| CO5 | Interpret which type of vata dosha gets vitiated and in which clinical condition the use of proper aahar dravya is prevalent as per kshaya, vriddhi of vata dosha. | Cognitive (Application) | Dk | Sh | Demonstration Discussion PBL | Written/ Viva voce | F & S | I | |
| CO 1 | Recite and to explain the important verses of vata dosha. (ex- sthana, karma, types, vriddhi and kshaya) | Cognitive (Recall) | Dk | Sh | Discussion Recitation | Written/ Viva voce | F & S | I | Sanskrit Samhita |
| | Topic 5 – Pitta dosha (6 | hr) [Lecture: 5 hou | rs, non-lecture: | 1 hour] | · | | · | | · |
| CO 1 | Define the <i>vyutpatti</i> and <i>nirukti</i> of <i>pitta</i> . | Cognitive (Recall) | Mk | Kh | Lecture | Written/ Viva voce | F & S | II | |
| CO 1 | Describe guna and general locations of <i>pitta dosha</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Demonstration | Written/ Viva voce Skill assessment | F & S | Π | |
| CO 1 | Describe general | Cognitive (Recall | Mk | Kh | Lecture | Written/ | F & S | II | Rognidan |

| | properties & functions of <i>pitta dosha</i> and explain the normal <i>guna, karma of pitta</i> <i>dosha</i> in a healthy person. | & Comprehension) | | | Discussion Seminar | Viva voce | | | Vikriti Vidnyan |
|------|--|------------------------------|----|----|--|-----------------------|-------|---|--------------------|
| CO 1 | Enlist five types of <i>pitta dosha</i> and describe <i>pachaka</i> with their specific locations, properties and functions. | Cognitive Recall | Mk | Kh | Lecture Discussion Demonstration | Written/ Viva voce | F & S | П | |
| CO 1 | Record your opinions about functions of pachak pitta and digestive enzymes seperatly. | Cognitive (Comprehension) | Nk | Kh | Group discussion | Self- assessment | SA | Π | |
| CO 1 | Describe <i>ranjaka</i> pitta with their specific locations, properties and functions. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Demonstration | Written/ Viva voce | F & S | Π | |
| CO 1 | Describe role of <i>ranjaka</i> pitta in <i>rasaranjan</i> process as per different <i>aacharyas</i> . | Cognitive (Comprehension) | Dk | Kh | Lecture | Written/ Viva voce | F & S | П | |
| CO 1 | Interprete stages of erythropoiesis and role of intrinsic factor, vit. B_{12} etc in hemopoiesis. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Seminar | Written/ Viva voce | F & S | П | |
| CO 1 | Describe <i>alochaka</i> , <i>bhrajaka</i> , <i>sadhaka</i> pitta with their specific locations, properties and functions. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Demonstration | Written/ Viva voce | F & S | П | |
| CO 1 | Discuss rhodopsin and iodopsin along with <i>alochaka pitta</i> and note down | Cognitive (Recall) | Nk | Kh | Self study | Self- assessment | SA | Π | |

| CO 1 | Elaborate the functions of bhrajaka pitta in term physiology. | Cognitive (Comprehension) | Nk | Kh | Self study | Self- assessment | SA | Π | |
|------|---|------------------------------|----|----|--|-----------------------|-------|----|---------------|
| CO 1 | Describe the role of sadhaka pitta in sadhana, concentration and observe changes upon heart rate and respiratory rate | Attitude (Imitation) | Nk | Sh | Discussion Demonstration | Self- assessment | SA | П | |
| CO 1 | Find out similarities and differences between fuctions of sadhaka pitta and neurotransmitter. | Cognitive (Analysis) | Nk | Kh | Self study | Self- assessment | SA | II | |
| CO 1 | Explain difference between kshaya & vriddhi lakshana of pitta Dosha | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II | |
| CO 5 | Interpret which type of <i>pitta dosha</i> gets vitiated and in which clinical condition the use of proper <i>aahar</i> <i>dravya</i> is prevalent as per <i>kshaya</i> , <i>vriddhi</i> of <i>pitta dosha</i> . | Cognitive (Application) | Dk | Sh | Demonstration Discussion PBL | Written/ Viva voce | F & S | Π | Swasthavrutta |
| CO 1 | Distinguish the similarities & differences between <i>agni</i> and <i>pitta</i> in terms of their <i>guna</i> with examples in compendia. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion PBL Seminar | Written/ Viva voce | S | Π | |
| CO 1 | Make inferences and find evidences / examples in daily regimen to support generalization of <i>agni</i> & <i>pitta</i> statement. | Cognitive (Analysis) | Nk | Sh | Demonstration Discussion Assignment PBL/CBL | Self- assessment | SA | Π | |
| CO 1 | Recite and explain the important verses of <i>pitta dosha</i> . (ex- | Cognitive (Recall) | Dk | Kh | Discussion Recitation | Written/ Viva voce | F & S | П | |

| | sthana, karma, types, vriddhi and kshaya) | | | | | | | | |
|------|---|-------------------------------------|---------------|---------------|--|--|-------|----|--|
| | Topic 6 – Kapha dosha | (5 hr) [Lecture: 4 ho | ours, non-lec | ture: 1 hour] | | | | | |
| CO 1 | Define the <i>vyutpatti</i> and <i>nirukti</i> of <i>kapha</i> <i>dosha</i> . | Cognitive (Recall Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II | |
| CO 1 | Describe general properties & functions of <i>kapha dosha</i> and demonstrate the normal <i>guan, karma</i> of <i>kapha</i> <i>dosha</i> in a healthy person. | Cognitive (Recall) (Application) | Mk | Kh | Lecture Discussion Demonstration | Written/ Viva voce Skill assessment | F & S | П | |
| CO 1 | Enlist five types of kapha dosha & describe bodhaka kapha kledaka, tarpaka with their specific locations, properties and functions. | Cognitive (Recall) | Mk | Knows | Lecture Discussion | Written/ Viva voce | F & S | Ш | |
| CO 1 | Identify the role of saliva in taste perception and also in other way. | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | П | |
| CO 1 | Describe role of <i>kledaka kapha</i> in lubricating and protective properties of mucus. | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | П | |
| CO 1 | Describe the role of <i>tarpaka kapha</i> in protects the sensory organs. | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | П | |
| CO 1 | Describe <i>avalambaka</i> , <i>sleshaka</i> with their specific locations, properties and functions. | Cognitive (Recall) | Mk | Knows | Lecture Discussion | Written/ Viva voce | F & S | Ш | |
| CO 1 | Describe the role of | Cognitive | Dk | Kh | Lecture | Written/ | F & S | II | |

| | <i>avalambaka</i> in heart protection and <i>sleshaka</i> <i>kapha</i> in arthritis. | (Comprehension) | | | Discussion | Viva voce | | | |
|------|---|--|-----------------|------------------|------------------------------------|-----------------------|-------|----|---------------|
| CO 1 | Explain difference between kshaya & vriddhi lakshana of kapha Dosha | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | П | |
| CO 1 | State importance of prakrit shleshmik bala / veerya & vikrit shleshmik mala & find out significance of above cognitive in applied aspect | Cognitive (Application) | Nk | Kh | Lecture Discussion | Self- assessment | SA | Ш | Kayachikitsa |
| CO 5 | Interpret which type of kapha dosha gets vitiated and in which clinical condition the use of proper aahar dravya is prevalent as per kshaya, vriddhi of kapha dosha. | Cognitive (Application) | Nk | Sh | Demonstration Discussion PBL | Viva voce | F & S | Π | Swasthavrutta |
| CO 1 | Recite and explain the important verses of <i>kapha dosha</i> . (ex- <i>sthana, karma,</i> <i>vriddhi and kshaya</i>) | Cognitive (Recall & & Comprehension) | Dk | Sh | Discussion Recitation | Written/ Viva voce | F & S | П | |
| CO 1 | Describe neural & chemical communication system of body | Cognitive (Comprehension) | Nk | Kh | Self study | Self- assessment | SA | II | |
| | Topic 7 – Dosha Vriddh | <i>i-Kshaya</i> (Hyper an | d hypo state of | dosha) (2 hr) [L | ecture: 1 hour, no | on-lecture: 1 h | our] | | |
| CO 1 | Describe etiological factors causing <i>tridosha vriddhi &</i> <i>kshaya</i> on the basis of <i>dravya, guna, karma,</i> <i>aahaar & vihara.</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Π | Dravyaguna |
| CO 1 | Describe, observe and interpret individual | Cognitive (Comprehension | Nk | Sh | Demonstration Discussion | Self- assessment | SA | II | |

| | causes and symptoms of panchavidha vataprakopa. (Ashtanga Hridaya nidana sthana 16) | Application) | | | PBL | | | | |
|------|---|--|----------------|--------------------|-----------------------|-----------------------|----------------|----|--------------------------------|
| CO 1 | Describe vriddhi- kshaya lakshana of vata dosha | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II | |
| CO 1 | Describe vriddhi & kshaya lakshana of pitta and kapha dosha | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II | |
| CO 1 | Enumerate the nanatmaj vyadhi of tridosha | Cognitive (Recall) | Nk | K | Lecture | Self- assessment | SA | II | |
| | Topic 8 – <i>Kriyakala</i> (Tr | eatment as per prev | alent kala) (2 | hr) [Lecture: 1 h | our, non-lecture | : 1 hour] | | | |
| CO 1 | Explain the Concept of <i>kriyakala</i> & enumerate stages of <i>kriyakala</i> . | Cognitive (Recall) (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II | Rognidan Vikriti Vidnyan |
| CO 1 | Describe the stages sanchaya, prakopa, prasara of kriyakala. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II | |
| CO 1 | Describe the stages sthansanshraya, vyaktavastha & bhedavastha of kriyakala. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Π | |
| CO 1 | Describe the applied physiology of diseases produced due the vitiation of <i>vata</i> , <i>pitta</i> and <i>kapha</i> . | Cognitive (Comprehension) | Nk | Sh | Lecture Discussion | Self- assessment | SA | Π | |
| CO 1 | Describe ideas given in the <i>shat-kriyakala</i> about preventive measures | Cognitive (Comprehension) | Nk | Kh | Group discussion | Self- assessment | SA | П | |
| | Topic 9 – <i>Prakriti (Deha</i> [Lecture: 7 hours, non- | | Prakriti) (Bod | y constitution, pe | rsonality, tempe | rament of indiv | iduals) (10 hr | | |
| CO 1 | Define the term <i>prakriti</i> and describe etymology & different | Cognitive (recall) | Mk | K | Lecture Discussion | Written/ Viva voce | F & S | II | |

| | meanings of the term <i>prakriti</i> . | | | | | | | |
|------|--|------------------------------|----|----|--|-----------------------|-------|----|
| CO 1 | Describe the role of different <i>matrijadi</i> <i>bhava</i> (genetic, intra- uterine and extra- uterine factors) influencing <i>prakriti</i> according to <i>Charaka</i> <i>and Sushruta</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Symposium | Written/ Viva voce | F & S | Π |
| CO 1 | Describe the classification of different <i>prakriti</i> according to various Samhitas | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Π |
| CO 1 | Enumerate types of deha prakriti and classify deha prakriti into eka-doshaja, dvanvaja, samadoshaja. | Cognitive (Recall) | Mk | Kh | Lecture Discussion Model Demonstration | Written/ Viva voce | F & S | П |
| CO 1 | Describe the <i>guna</i> (attributes) of <i>vata</i> prakriti according to <i>Charaka</i> Samhita | Cognitive (Comprehension) | Mk | Sh | Lecture Discussion Model Demonstration | Written/ Viva voce | F & S | П |
| CO 1 | Describe the <i>guna</i> (attributes) of pitta prakriti according to <i>Charaka</i> Samhita | Cognitive (Comprehension) | Mk | Sh | Discussion Role play real life experience | Written/ Viva voce | F & S | II |
| CO 1 | Describe the <i>guna</i> (attributes) of <i>kapha</i> prakriti according to <i>Charaka</i> Samhita | Cognitive (Comprehension) | Mk | Sh | Lecture Discussion video show Simulation | Written/ Viva voce | F & S | П |
| CO 1 | Describe guna of vata, pitta & kapha prakriti according to Vagbhata (abhiruchi) & Sushruta samhita (anukatva) | Cognitive (Comprehension) | Mk | Sh | Discussion Model Demonstration Team project work, Tutorial | Written/ Viva voce | F & S | II |
| CO 1 | Describe the guna (attributes) of vata, pitta & kapha prakriti according to | Cognitive (Comprehension) | Nk | Sh | Discussion | SA | SA | II |

| | <i>Sharangadhara</i> Samhita | | | | | | | | |
|------|--|------------------------------|----|----|---|-----------------------|-------|----|--------------|
| CO 1 | Describe the relationship between individual <i>prakriti &</i> <i>agni, koshtha</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | П | |
| CO 1 | Describe classification of <i>bhautik prakriti</i> and characteristic features of the individuals belonging to each kind of <i>bhautik prakriti</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Π | |
| CO 1 | Describe classification of manas <i>prakriti</i> and characteristic features of the <i>satvic prakriti</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Π | |
| CO 1 | Describe the characteristic features of <i>rajasic & tamasic</i> manas <i>prakriti</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Π | |
| CO 1 | Describe classification of and characteristic features of the individuals belonging to each kind of <i>jatyadi</i> - <i>prakriti</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written | F & S | Π | |
| CO 1 | Similarities and difference between the <i>sharirik & manas</i> <i>prakriti</i> descriptions given in various Samhitas. | Cognitive (Comprehension) | Dk | Kh | Discussion Team project work | Written | F | Π | Kayachikitsa |
| CO 1 | Significance of the Cognitive of <i>prakriti</i> in clinical aspect and <i>pathya-apathya</i> <i>kalpana</i> in <i>ahara</i> and <i>vihara</i> of each type of <i>prakriti</i> . | Cognitive (Comprehension) | Mk | Kh | Discussion Self-learning Buzz group | Written Role play | F & S | Π | |
| CO 1 | Appreciate the use of various validated tools for assessing | Cognitive (Application) | Mk | Sh | Discussion Tutorial, Demonstration | Written/ Viva voce | F & S | II | |

| | Ayurvedic concept of human constitution (prakriti) (software/ questionnaire) to evaluate <i>prakriti</i> - Ex- CCRAS portal | | | | | | | | |
|------|---|--|----|----|--------------------------|----------------------------------|-------|----|--------------|
| CO 1 | Describe the relevance of <i>desha-kala-ritu-</i> <i>vaya-ahara-vihara-</i> <i>satmya, aushadha</i> of parents especially of mother on <i>prakriti</i> of individual. | Cognitive (Application/ Analysis) | Dk | Kh | Tutorial, Discussion | Viva voce Seli- assessment | SA | II | Kayachikitsa |
| CO 1 | Appreciate the application of recent advances in the domain of research related to <i>prakriti</i> (genetic, physiological basis) | Cognitive (Application/ Analysis) | Nk | Kh | Discussion | Seli- assessment | SA | П | |
| CO 1 | Recite and explain the important verses of <i>vata</i> , <i>pitta</i> & <i>kapha</i> <i>doshaja prakriti</i> . | Cognitive (Recall & Comprehension) | Dk | Kh | Discussion Recitation | Written/ Viva voce | F & S | П | |
| CO 1 | Observe distinguish features of individuals of three contrasting <i>prakriti</i> types vata, <i>pitta</i> and kapha by IGIB. Link: <u>https://doi.org/10.1186/</u> <u>1479-5876-6-48</u> | Cognitive (Application) | Nk | Sh | Team project work | Team assessment | ТА | П | |
| CO 1 | Observe standardized prakriti assessment tool by CCRAS. Link: doi/10.5005/jp- journals-10064-0019 | Cognitive (Application) | Nk | Sh | Team project work | Team assessment | ТА | п | |
| CO 1 | Compare human constitution (prakriti) & genomic | Cognitive (Comprehension) | Nk | Kh | Group discussion | Self- assessment | SA | II | |
| CO 1 | Record the known physiological variation | Cognitive (Application) | Dk | Kh | Real life experience | Demonstrati on | SA | II | |

| | of your friends in different <i>rutu</i> as per different <i>prakriti</i> . | | | | Role play | | | |
|------|---|------------------------------|-----------------|------------------|-----------------------------------|-----------------------|-------|-----|
| CO 1 | Discuss correlation of genotype and phenotype with <i>prakriti</i> . | Cognitive (Comprehension) | Nk | Kh | Group discussion | Self- assessment | SA | Ш |
| CO 1 | Trace interrelationship between aging and prakriti | Cognitive (Comprehension) | Nk | Kh | Discussion | Self- assessment | SA | Π |
| CO 1 | Point out hematological difference as per different prakriti. | Cognitive (Analysis) | Nk | Kh | Survey | Self- assessment | SA | II |
| CO 1 | Discuss <i>manas prakruti</i> and personality. | Cognitive (Comprehension) | Dk | Kh | Role pay | Self- assessment | SA | Π |
| CO 1 | Role of prakriti (Ayurgenomics) in the concept of personalised medicine | Cognitive (Comprehension) | Nk | Kh | Group discussion Seminar | Self- assessment | SA | П |
| CO 1 | Explore thes Immunophenotyping & human dosha prakriti. | Cognitive (Comprehension) | Nk | Kh | Online material | Self- assessment | SA | II |
| | Topic 10 – Ahara (Diet | and nutrition in Ayu | rveda) (4 hr) [| Lecture: 3 hours | s, non-lecture: 1 | hour] | | |
| CO 1 | Describe the <i>Nirukti</i> (etymology)& <i>paribhasa</i> (definition) of ahar. | Cognitive (Recall) | Mk | K | Lecture Discussion | Written/ Viva voce | F & S | III |
| CO 1 | Describe the <i>Bheda</i> (classification) and <i>upayogita</i> (importance) of <i>ahara</i> . | Cognitive (Recall) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
| CO 1 | Define, enlist and describe- the types of <i>ahara</i> in detail with examples | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Tutorial | Written/ Viva voce | F & S | III |

| CO 1 CO 1 | Define, enlist and describe <i>ashta ahara-</i> <i>vidhi-viseshayatana</i> (8 factors to be considered while preparing and processing the food) in detail with examples Describe <i>ahara vidhi</i> | Cognitive (Comprehension) Cognitive | Mk Mk | Kh | Lecture Discussion Seminar Lecture | Written/ Viva voce Written/ | F & S F & S | III | Swathavritta |
|--------------|--|---|----------|----|--|-----------------------------------|----------------|-----|--------------|
| | <i>vidhana</i> (rules for consuming the food) in detail with examples. | (Comprehension) | | | Discussion | Viva voce | | | |
| CO 1 | Explains the role of <i>ahara vidhi vidhana</i> in the context of present- day lifestyle, cooking habits and eating behaviour. | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion Real life experience Evidance based learning | Written/ Viva voce | F & S | Ш | |
| CO 1 | Define, enlist and describe <i>ahara</i> <i>parinamkara bhava</i> (factors responsible for proper digestion) and the importance of each of these factors in the process of digestion | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Explain the concept of <i>viruddha ahara</i> (incompatible diet) and its relevance in present- day food processing methods and dietary consumption behaviour in individuals. | Cognitive (application) | Dk | Sh | Lecture Discussion Observation | Written/ Viva voce | SA | Ш | Swathavritta |
| CO 1 | Explain the role of <i>ahara</i> in today's aspect related to <i>anupana</i> habits etc. | Cognitive (application) | Nk | Sh | Lecture Discussion | Self assessment | SA | III | |
| CO 1 | Explain the role in today's lifestyle of food, compatible food, the proper time for | Cognitive (application) | Nk | Sh | Lecture Discussion Assignment | Self-notes | SA | III | |

| | food taking, practice regarding food intake etc. in individual's health. | | | | | | | | |
|------|---|------------------------------|-----------------|--------------------|-----------------------|-----------------------|-------|-----|--------------|
| CO 1 | Explain dietary guidelines, how to eat food in Ayuvedic view. | Cognitive (application) | Nk | Kh | Lecture Discussion | Self assessment | SA | III | |
| | Topic 11 – Agni (The di | gestive fire of the bo | ody) (5 hr) [Le | ecture: 4 hours, n | on-lecture: 1 ho | ur] | | | |
| CO 1 | Describe different meanings of <i>agni</i> in different contexts and define <i>agni</i> in the context of <i>kriya sharir</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | State the importance of <i>agni</i> in maintaining the different aspects of human physiology | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Enumerate and explain the different synonyms of <i>agni</i> regarding <i>kriya</i> <i>sharir</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Enumerate and define various classifications of <i>agni</i> concerning their locations and functions in the body | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the physiological roles of <i>jatharagni</i> , <i>bhutagni</i> and <i>dhatvagni</i> and explain the differences and similarities between the three. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | Kayachikitsa |
| CO 1 | Classify and explain the features of four functional / abnormal states of <i>jatharagni:</i> <i>samagni</i> , <i>vishamagni</i> , <i>mandagni</i> & <i>tikshnagn</i> i and explain evaluation process of <i>jarana</i> - | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | Rognidan |

| | shakti. | | | | | | | |
|------|--|------------------------------|-----------------|------------------|------------------------------|------------------------------|---------------|--------|
| CO 1 | Enumerate the factors affecting the normal functioning of Agni and the symptoms of improper functioning of <i>agni</i> seen in certain clinical conditions | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Viva voce | F | III |
| CO 1 | Enumerate and discuss different entities in the body that can represent different forms of <i>agni</i> from the contemporary physiology and biochemistry (hormones, enzymes etc) point of view | Cognitive (Comprehension) | Nk | Kh | Lecture Discussion | Self assessment Debate | SA | III |
| CO 1 | Record the opinions among your friends on the concept of free radicals & antioxidant | Cognitive (Application) | Nk | Sh | Team project work | Team assessment | ТА | III |
| CO 1 | Identify digestive and metabolic functions of <i>Agni</i> & its clinical importance. | Cognitive (Application) | Nk | Sh | Group discussion | Self Assessment | SA | III |
| CO 1 | Distinguish the similarities & differences between <i>agni</i> and <i>pitta</i> in terms of their <i>guna</i> with examples in compendia. (mentioned in pitta also) | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion PBL | Written/ Viva voce | S | III |
| | Topic-12. Annapachana | / Aahara-paka (Dig | estion and meta | abolism in Ayurv | eda) (9 hr) [Lec | ture: 7 hours, r | on-lecture: 2 | hours] |
| CO 1 | Describe the <i>annavaha</i> <i>srotas</i> along with its <i>mula sthana</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
| CO 1 | Enumerate and describe different organs of <i>annavaha</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |

| CO 1 | <i>srotas</i> and their important functions. according to Ayurveda and contemporary physiology Describe three stages of digestion: <i>madhura</i> , <i>amla</i> and <i>katu</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Tutorial | Written/ Viva voce | F & S | III | |
|------|--|------------------------------|----|----|-----------------------------------|-----------------------|-------|-----|----------|
| CO 1 | avasthapaka in detailDescribe the process ofudeerana (increase/release) of vata, pitta,kapha duringavasthapaka | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the formation of <i>prakrit</i> and <i>vaikrit</i> <i>dosha</i> (<i>prasadbhuta</i> , <i>malabhuta dosha</i>) and their role. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ш | Rognidan |
| CO 1 | Describe the definition of <i>vipaka</i> (<i>nisthapaka</i>) and classification of <i>vipaka</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe how to identify <i>vipak</i> of <i>aahar</i> as per their effect on the body. | Cognitive (application) | Dk | Sh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the similarities and differences between <i>avasthapaka</i> and <i>nishthapaka</i> | Cognitive (Comprehension) | Mk | K | Lecture Discussion | Written/ Viva voce | F & S | III | |

| CO 1 | Explain the role of | Cognitive | Mk | Kh | Lecture | Written/ | F & S | III | |
|------|-------------------------|-----------------|----|----|------------|-----------|-------|-----|--|
| | different sub-types of | (Comprehension) | | | Discussion | Viva voce | | | |
| | dosha in the process of | _ | | | | | | | |
| | digestion: bodhaka | | | | | | | | |
| | kapha, prana vayu, | | | | | | | | |
| | kledaka kapha, samana | | | | | | | | |
| | vayu, pachaka pitta, | | | | | | | | |
| | apana vayu etc. | | | | | | | | |

| CO 1 | Describe the process of separation of <i>saara</i> and <i>kitta</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
|------|--|------------------------------|----|----|-----------------------|-----------------------|-------|-----|
| CO 1 | State the application of the theory of <i>pilu-paka</i> and <i>pithara paka</i> in <i>aharapaka</i> | Cognitive (Comprehension) | Nk | Kh | Lecture Discussion | Self- assessment | SA | Ш |
| CO 1 | Explain the role of grahani & pittadhara kala & describe possible relation between pittadhara and majjadhara kala. | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | ш |
| CO 1 | State the importance of <i>pachaka pitta</i> and <i>jatharagni</i> in the process of digestion | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
| CO 1 | Explain the role of bhutagni and dhatvagni in ahara parinaman | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
| CO 1 | Describe the process of formation of <i>ahara-</i> <i>rasa</i> and absorption of <i>sara bhaga / anna-</i> <i>veerya</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
| CO 1 | Draw parallels between the different types of <i>agni</i> and various digestive enzymes and hormones | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
| CO 1 | Define ahara gati, abhyavaharana shakti, annagrahana, pachana, vivechana, munchana and jaranashakti | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
| CO 1 | Discuss applied clinical aspect of annavaha srotas: arochaka, ajirna, atisara, grahani, chardi, parinama shula etc | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Viva voce CBD | F & S | III |

| CO 1 | Define different meanings of the term <i>koshtha</i> and explain the term in the context of <i>kriya sharira</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
|------|---|--------------------------------------|--------------|-----------------|-----------------------|-------------------------------|-------|-----|-------------|
| CO 1 | Enumerate the different types of <i>koshtha</i> according to the predominance of <i>dosha</i> (<i>krura-mridu and</i> <i>madhya</i>) | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | Panchakarma |
| CO 1 | State clinical significance of <i>koshtha</i> and the process of evaluating <i>koshtha</i> in an individual. | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce DOPS | F & S | III | |
| | Part B (40 Hours) - | - | | | | | | | |
| | Topic 1 - Physiology Ho | meostasis (6 hr) [Le | cture: 5 hou | ırs, non-lectur | e: 1 hour] | | | | |
| CO 1 | Define homeostasis and describe mechanisms of maintenance of homeostasis. | Cognitive (Recall/ Comprehension) | / Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I | |
| CO 1 | Distinguish between the shell temperature and core temperature | Cognitive (Recall/ Comprehension) | / Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Define the terms Cell death, Cell degeneration, Cell aging. Describe animal tissue. | Cognitive (Recall/ Comprehension) | / Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I | |
| CO 1 | Describe mechanism of positive and negative feedback system with at least two examples. | Cognitive (Recall/ Comprehension) | / Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe the structure and function of cell, cell membrane, cytoplasmic | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |

| | organelles, genetic material (DNA & RNA.) | | | | | | | |
|------|---|------------------------------|---------------|-------------------|----------------------------------|-----------------------|-------|---|
| CO 1 | Explain the process of DNA replication & inhibitors of replication. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι |
| CO 1 | Describe the acid-base balance, water and electrolyte balance. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I |
| CO 1 | Describe the concept of pH & buffer systems in the body and Na-K pump | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I |
| CO 1 | Describe and discuss transport mechanisms across cell membranes. (Active & facilitated) | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I |
| CO 1 | Describe and discuss the molecular basis of resting membrane potential and action potential | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I |
| | Topic 2 - Physiology of re | espiratory system: (7 | 7 hr) [Lectur | e: 5 hours, non-l | ecture: 2 hours] | | | |
| CO 1 | Describe divisions of the respiratory system based on its functions. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I |
| CO 1 | Describe pulmonary circulation. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I |
| CO 1 | Describe the mechanics of normal respiration, pressure changes during ventilation. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I |
| CO 1 | Describe the lung volume and capacities, compliance, diffusion of lungs | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I |
| CO 1 | Describe and discuss the exchange and transport of gases - Oxygen and Carbon dioxide | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Seminar | Written/ Viva voce | F & S | I |

| CO 1 | Describe the neural and chemical control of respiration. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι |
|------|--|------------------------------|---------------|--------------------|----------------------------------|-----------------------|-------|-----|
| CO 1 | Describe physiological situations that affect respiration and discuss artificial respiration, dyspnoea, asphyxia, hypoxia, cynosis. | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I |
| CO 1 | Describe Haldane effect & Kussmaul breathing. | Cognitive (Comprehension) | Nk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι |
| CO 1 | Describe basic of pulmonary function tests. | Cognitive (Comprehension) | Nk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I |
| | Topic 3 - Physiology of G | astrointestinal syste | em (9 hr) [Le | ecture: 7 hours, n | on-lecture: 2 ho | urs] | | · · |
| CO 1 | Describe enzyme and its fuctions in metabolism | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | П |
| CO 1 | Describe functional anatomy and physiology of the digestive system | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II |
| CO 1 | Describe the functions of salivary glands, stomach, liver, gall bladder pancreas, small intestine, large intestine in the process of digestion and absorption. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Π |
| CO 1 | Describe the mechanism of secretion, composition, functions, and regulation of saliva, gastric, pancreatic, intestinal juices and bile secretion | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II |
| CO 1 | Describe GIT movements deglutition, peristalsis, defecation and control | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II |
| CO 1 | Describe the major components of food, the process of digestion and | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Seminar | Written/ Viva voce | F & S | Π |

| | metabolism of proteins, fats and carbohydrates | | | | | | | | |
|------|---|------------------------------|--------------|-----------------|----------------------------------|-----------------------|-------|-----|--|
| CO 1 | Describe the physiological role of vitamins | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Π | |
| CO 1 | Describe the Gut-Brain Axis and enteric nervous system, and its function | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II | |
| CO 1 | Discuss the physiology aspects of gastro- oesophageal reflux disease, vomiting, diarrhoea, constipation | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | П | |
| | Topic 4 - Physiology of N | ervous System (10 h | r) [Lecture: | 7 hours, non-le | ecture: 3 hours] | | | | |
| CO 1 | Describe organization of nervous system. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the mechanism of propagation of nerve impulses. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the functions & properties of synapse, reflex, receptors | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the functional anatomy of the central nervous system (CNS) and peripheral nervous system (PNS) | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Seminar | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the physiology of autonomous nervous system (ANS) | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the physiology of sensory (general sensations) and motor nervous system | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe and discuss spinal cord, its functions, lesion & sensory disturbances | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe and discuss functions of the cerebral cortex, basal ganglia, | Cognitive (Comprehension) | Nk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |

| | thalamus, hypothalamus cerebellum, mid brain, pons and medulla oblongata. | | | | | | | |
|------|--|------------------------------|---------------|------------------|----------------------------------|-----------------------|-------|-----|
| CO 1 | Describe and discuss the physiological basis of intelligence, memory, learning and motivation. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
| CO 1 | Describe the physiology of cranial nerves | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
| CO 1 | Describe physiology of speech and articulation. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
| CO 1 | Describe physiology of temperature regulation. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
| CO 1 | Describe the physiology of pain | Cognitive (Comprehension) | Nk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
| | Topic 5 - Physiology of E | ndocrine glands (8 l | hr) [Lecture: | 6 hours, non-lec | ture: 2 hours] | | | |
| CO 1 | Enlists and describe hormones & endocrine glands based on synthesis, secretion, transport, physiological actions, regulation. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
| CO 1 | Describe hormones secreted by anterior & posterior pituitary gland, their functions, disorders of pituitary gland (hyper & hypo activity) | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
| CO 1 | Describe hormones secreted by the Thyroid gland, their functions & disorders of Thyroid and parathyroid gland (hyper and hypoactivity) | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Seminar | Written/ Viva voce | F & S | III |
| CO 1 | Describe hormones | Cognitive | Nk | Kh | Lecture | Written/ | F & S | III |

| CO 1 | Topic-1. Introduction to Explain the etymology, derivation, definition, synonyms and general | Dhatu (3 hr) [Lectu Cognitive (Recall) | re: 2 hours, no | Mh | Lecture Discussion | Written/ Viva voce | F & S | I | Sanskrit Samhita/ |
|-------------------------|---|--|---|--|-----------------------|-----------------------|-------------------------------|------------|----------------------|
| | Paper II (60 Hours | · | | | | | | | |
| | AyGU-KS | | | | | | | | |
| | should be able to) | | desirable to know/Nice to know | Shows how/ Knows how/ Know | | | | | |
| A3 Course outcome | B3 Learning Objective (At the end of the session, the students | C3 Domain/sub | D3 Must to know/ | E3 Level Does/ | F3 T-L method | G3 Assessment | H3 Formative /summative | I3 Term | J3 Integration |
| PAPER | | | | _ | | | | | |
| CO 1 | Describe the synthesis and functions of local hormones | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Enlist other Glands and their functions | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | (hyper and hypoactivity) Describe hormones secreted by Adrenal medulla gland, their functions & disorders of Adrenal medulla (hyper and hypoactivity) | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | (hyper and hypoactivity) Describe hormones secreted by Adrenal cortex gland, their functions & disorders of Adrenal cortex gland | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | | Cognitive | Mk | Kh | Lecture | Written/ | F & S | III | |

| | introduction of the term <i>dhatu</i> . | | | | | | | | Rognidan Vikriti Vidnyan |
|------|--|--------------------------------------|----|----|--|------------------------|-------|---|--------------------------------|
| CO 1 | Explain the difference between <i>dhatu</i> and <i>upadhatu</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Explain different theories related to <i>dhatuposhana</i> <i>Nyaya</i> (nourishment of different <i>dhatus</i>). | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Seminar | Written / Viva voce | F & S | Ι | |
| CO 1 | Explain the applicability of nyaya in the different physiological mechanisms. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Jigsaw | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe <i>utpatti & poshana</i> of dhatu. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Compile various terminologies related to <i>dhau gati</i> and <i>dhatu</i> <i>poshana</i> | Cognitive (Comprehension) | Dk | Sh | Assignment Tutorial | Self- assessment | SA | I | |
| CO 1 | Mention your opinion about <i>nyaya</i> concept on the basis of different metabolic pathways, transformation, transport of substances through cell membrane. | Cognitive (Application) | Nk | Kh | Group discussion Buzz group | Self- assessment | SA | Ι | |
| CO 1 | Discuss theory of tissues formation and differentiation in context with physiological changes of aging. | Cognitive Application) | Nk | Kh | Group discussion Homework based assignment | Self- assessment | SA | Ι | |
| CO 1 | Discuss stem cells along with concepts of regeneration in Ayurveda | Cognitive (Recall/ Comprehension) | Nk | Kh | Lecture Online teaching aids | self assessment | SA | Ι | |
| CO 1 | Study Ayurvedic aspect of <i>dhatu sarata</i> and its application | Cognitive (Application) | Nk | Kh | Group discussion Seminar | Self- assessment | SA | Ι | |

| CO 1 | Explain the etymology, derivation, location, properties, functions and <i>pramana</i> of <i>rasa-dhatu.</i> <i>panchabhautikatva</i> of <i>rasa dhatu.</i> | Cognitive (Recall) | Mk | К | Lecture Discussion | Written/ Viva voce | F & S | Ι |
|------|---|------------------------------|----|----|---|-----------------------|-------|---|
| CO 1 | Describe the functions of <i>rasavaha srotas</i> & <i>mula</i> of <i>rasavaha srotas</i> . | Cognitive (Recall) | Mk | K | Lecture Discussion | Written/ Viva voce | F & S | I |
| CO 1 | Describe the process of formation of <i>rasa dhatu</i> from <i>aahara rasa</i> , and circulation of <i>rasa-rakta</i> (<i>rasa-rakta samvahana</i>) | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I |
| CO 1 | Describe kshaya-vriddhi & rasapradoshaja vikara | Cognitive (Comprehension) | Mk | Kh | Lecture Assignment | Written/ Viva voce | F & S | Ι |
| CO 1 | Description of functioning of <i>hridaya</i> and physiological significance of <i>hridaya</i> . | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion Flipped classroom | Written/ Viva voce | F & S | I |
| CO 1 | Description of <i>sira</i> , <i>dhamani and srotas</i> | Cognitive (Comprehension) | Nk | Kh | Discussion Video show | Written/ Viva voce | F & S | I |
| CO 1 | Enumerate <i>ashtavidha</i> <i>sara</i> (8 types of <i>sara</i>), and describe the features of individuals belonging to <i>tvak-saara purusha</i> . | Cognitive (Recall) | Mk | К | Lecture, Role play, real life experience, Discussion Brainstrorming | Written/ Viva voce | F & S | I |
| | Topic-3. Rakta Dhatu (4 hr) [Lecture: 3 hours, non-lecture: 1 hour] | | | | | | | |
| CO 1 | Explain the etymology, derivation, synonyms, location, properties, functions and <i>pramana</i> of rakta dhatu & explain the panchabhautikatva of rakta dhatu, | Cognitive (Recall) | Mk | K | Lecture Discussion | Written/ Viva voce | F & S | Ι |
| CO 1 | Describe the physiology of <i>raktavaha srotas</i> , and describe the <i>mula of</i> <i>rakta-vaha srotas</i> and mutual interdependence of <i>rakta and pitta</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I |

| CO 1 | Describe the formation of <i>rakta-dhatu, ranjana</i> <i>of rasa</i> by Ranjaka <i>pitta</i> , features of <i>shuddha</i> <i>rakta</i> , specific functions of <i>rakta</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
|------|--|------------------------------|--------------|---------------|-------------------------------------|-----------------------|-------|----|--------------------|
| CO 1 | Describe the characteristics of <i>raktasaara</i> Purusha | Cognitive (Recall) | Mk | K | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe the manifestations of <i>kshaya</i> <i>and vriddhi</i> and name <i>pradoshaja vikara</i> of <i>raktadhatu</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Assignment | Written/ Viva voce | F & S | Ι | Vikriti Vigyana |
| CO 1 | Elaborate the concept about inclusion or exclusion of rakta dhatu as a fourth dosha. | Cognitive (Comprehension) | Nk | Kh | Discussion Brainstorming | Written/ Viva voce | F | Ι | |
| | Topic-4. Mamsa Dhatu (3 | hr) [Lecture: 2 hou | urs, non-lec | ture: 1 hour] | | · | | | |
| CO 1 | Describe the etymology, derivation, synonyms, location, properties and functions of <i>mamsa</i> <i>dhatu</i> , physiology of <i>mamsavaha srotas</i> , <i>mula</i> of <i>mamsavaha srotas</i> | Cognitive (Recall) | Mk | K | Lecture Discussion | Written/ Viva voce | F & S | Π | |
| CO 1 | Describe the formation of <i>mamsa dhatu</i> and the definition of <i>peshi</i> characteristics of <i>mamsasaara purusha</i> , | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II | |
| CO 1 | Describe manifestations of <i>kshaya</i> and <i>vriddhi</i> of <i>mamsa</i> Dhatu & describe the physiological basis of these manifestations. Name <i>mamsa</i> <i>pradoshaja vikara</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Assignment | Written/ Viva voce | F & S | П | Vikriti Vigyana |

| CO 1 | Describe the etymology, derivation, location, properties, functions and <i>pramana</i> of <i>meda dhatu</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II | |
|------|--|------------------------------|---------------|------------|-------------------------------------|-----------------------|-------|----|--------------------|
| CO 1 | Describe the <i>medovaha</i> <i>srotas</i> , its <i>mula</i> , the physiology of <i>medovaha</i> <i>srotas</i> , formation of <i>medo dhatu</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Π | |
| CO 1 | Describe the characteristics of <i>medasaara purusha</i> and manifestations of <i>kshaya</i> and <i>vriddhi</i> of <i>meda</i> . Name <i>meda pradoshaja</i> <i>vikara</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Assignment | Written/ Viva voce | F&S | II | |
| CO 1 | Describe the clinical features of <i>sthaulya</i> and <i>karshya</i> along with the physiological basis of these clinical conditions | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II | Vikriti Vigyana |
| CO 1 | Record the properties of lipid & mamsa dhatu. | Cognitive (Comprehension) | Nk | Kh | Discussion | Self assessment | F | Π | |
| | Topic-6. Asthi Dhatu (3 h | r) [Lecture: 2 hours | s, non-lectur | e: 1 hour] | | · | · | · | |
| CO 1 | Describe the definition, synonyms, classification, properties (<i>guna</i>), and formation of <i>asthi dhatu</i> . | Cognitive (Comprehension) | Mk | K | Lecture Discussion | Written/ Viva voce | F & S | Π | |
| CO 1 | Describe the <i>asthi dhara</i> <i>kala</i> ; relation with <i>purishdharakala</i> and the features of <i>asthi sarata</i> . | Cognitive (Comprehension) | Mk | K | Lecture Discussion | Written/ Viva voce | F & S | Π | |
| CO 1 | Describe the applied physiology of <i>asthi dhatu</i> (<i>asthi vriddhi/ asthi</i> <i>kshaya</i>) and name <i>asthi</i> <i>pradoshaja vikara</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Assignment | Written/ Viva voce | F & S | Π | Vikriti Vigyana |

| CO 1 | Describe the definition, synonyms and location (<i>sthana</i>) of <i>majja dhatu</i> . | Cognitive (Recall) | Mk | K | Lecture Discussion | Written/ Viva voce | F & S | II | |
|------|---|------------------------------|-------------|----------------|---------------------------------------|-----------------------|-------|----|--------------------|
| CO 1 | Describe the formation of <i>majja dhatu</i> <i>majjavaha srotas</i> and its <i>mula</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II | |
| CO 1 | Describe <i>majja dhara</i> <i>kala</i> in relation with <i>pittadhara kala</i> and the features of <i>majja sarata</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II | |
| CO 1 | Describe applied physiology of <i>majja</i> <i>dhatu (majja vriddhi and</i> <i>kshaya)</i> and name <i>majja</i> <i>pradoshaja vikara</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Assignment | Written/ Viva voce | F & S | II | Vikriti Vigyana |
| CO 1 | Comment on concept of majja dhatu and bone marrow | Cognitive (Comprehension) | Dk | Kh | Discussion Online teaching aids | Self assessment | F | II | |
| | Topic-8. Shukra Dhatu (4 | hr) [Lecture: 3 hou | ırs, non-le | cture: 1 hour] | | | | | |
| CO 1 | Describe the etymology and derivation of <i>shukra</i> <i>dhatu</i> , location, properties, <i>pramana</i> functions of <i>shukra dhatu</i> . | Cognitive (Recall) | Mk | K | Lecture Discussion | Written/ Viva voce | F & S | II | |
| CO 1 | Describe the formation of <i>shukra dhatu</i> , <i>poshana</i> <i>krama</i> and its <i>updathu</i> and <i>mala</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Puzzle | Written/ Viva voce | F & S | II | |
| CO 1 | Describe the mula of shukravaha srotas and the properties of shuddha shukra along with shukra saara purusha symptoms. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | П | |
| CO 1 | Describe the features of | Cognitive | Mk | Kh | Lecture | Written/ | F & S | II | Vikriti |

| | shukra dhatu & shukra pradoshaja vikara | | | | Assignment | | | | |
|------|---|---|--------------|-----------------|--------------------------|--|-------|-----|--------------------|
| CO 4 | Identify histological structure explain structure of different tissue (dhatu) | Cognitive (Comprehension) Psychomotor | Mk | Kh | Demonstration Perform | Practical Skill assessment OSPE | F & S | | |
| | Topic-9. Ashraya- Ashray | vi Bhava (2 hr) [Lect | ture: 1 hour | r, non-lecture: | 1 hour] | | | | |
| CO 1 | Describe the concept of ashraya-ashrayi bhava i.e. inter-relationship among dosha, dhatu mala and srotas. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | Vikriti Vigyana |
| CO 1 | Describe the applied physiology of diseases affecting <i>saptadhatu</i> enlisted under dhatu <i>pradoshaja vikara</i> . | Cognitive (Comprehension) | Dk | Kh | Discussion Seminar | Written | F | III | |
| CO 1 | Explain use of Ashraya- Ashrayi Bhava in laghan bruhan. | Cognitive (application) | Nk | Kh | Discussion | Self- assessment | SA | III | |
| | Topic -10. <i>Oja</i> (4 hr) [Le | cture: 3 hours, non- | lecture: 1 ł | nour] | | | | | |
| CO 1 | Recall etymological derivation, definition, classification, and <i>pramana</i> of <i>oja</i> | Cognitive (Recall) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the process of formation of <i>ojas</i> along with locations and properties | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the concept of <i>vyadhikshamatva</i> , explain <i>bala vriddhikara</i> bhava. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Classify <i>bala</i> and describe etiological factors (<i>kshaya karan</i>) for <i>oja visramsa, vyapat</i> <i>and kshaya</i> and elaborate | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | Vikriti Vigyana |

| | the manifestation of these clinical conditions. | | | | | | | | |
|------|--|------------------------------|---------------|-----------|-----------------------|-----------------------|-------|-----|--------------------|
| CO 1 | Collect different opinoins on oja given by different aacharya and try to understand the logic behind it. | Cognitive (Recall) | Nk | Kh | Discussion | Written | F | III | |
| CO 1 | Interpret your opinion about oja-bala-kapha in its normal state. | Cognitive (Recall) | Nk | Kh | Discussion | Self- assessment | SA | III | |
| | Topic-11. Upadhatu (7 hr |) [Lecture:6 hours, | , non-lecture | : 1 hour] | | | | | |
| CO 1 | Describe the general introduction, etymological derivation and definition of the term <i>upadhatu</i> | Cognitive (Recall) | Mk | K | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the formation, nourishment, properties, location and functions of each <i>upadhatu</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the characteristic features and methods of assessing <i>shuddha</i> and <i>dushita</i> <i>stanya</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | Vikriti Vigyana |
| CO 1 | Describe the characteristic features of <i>vriddhi</i> and <i>kshaya</i> of <i>stanya</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe characteristic features of <i>shuddha</i> and <i>dushita artava</i> along with enumerating the differences between <i>raja</i> and <i>artava</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe <i>artava-vaha</i> <i>srotas</i> and its <i>mula</i> along with the common clinical conditions related to <i>artava-vaha srotas</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | Vikriti Vigyana |

| | (kashtartava, vandhyata, pradara etc). | | | | | | | | |
|------|--|------------------------------|--------------|--------|-----------------------|-----------------------|-------|-----|--|
| CO 1 | Describe the classification, thickness of each layer and functions of <i>tvak</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Interpret the skin layer as per contemporary science. | Cognitive (Recall) | Nk | Kh | Discussion | Written | F | III | |
| | Topic 12. <i>Mala</i> (8 hr) [Le | ecture: 6 hours, non | -lecture: 21 | hours] | | | | | |
| CO 1 | Describe the etymological derivation and definition of the term <i>mala</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Enumerate <i>aharamala</i> and describe of the process of formation of <i>aharamala</i> . | Cognitive (Recall) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the etymological derivation, definition, formation, properties, quantity and functions of <i>purisha</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the physiology of <i>purishavaha srotas</i> , <i>purish visarjana</i> and manifestations of <i>vriddhi</i> and <i>kshhaya</i> of <i>purisha</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Explain the relation between <i>purishdhara</i> <i>kala</i> and <i>asthidhara kala</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the etymological derivation, definition, formation, properties, quantity and functions of <i>mutra</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the physiology of <i>mutravaha srotas</i> and the process of urine formation and <i>mutra</i> <i>visarjana</i> in Ayurveda. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |

| CO 1 | Explain the manifestations of <i>vriddhi</i> and <i>kshhaya</i> of <i>mutra</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
|------|--|------------------------------|--------------|-----------------|-----------------------------------|-----------------------|-------|----------|--------------------|
| CO 1 | Explain the urge of micturition & defecation in perspective of reflexes | Cognitive (Application) | Nk | Kh | Discussion | Self- assessment | SA | III | |
| CO 1 | Describe and enumerate <i>dhatumala</i> and describe the functions of each type of <i>dhatumala</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Explain the etymological derivation, definition, formation and functions of <i>sveda</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Explain the functions of <i>svedvaha srotas</i> along with describing the manifestations of <i>vriddhi and kshaya of sveda</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Review Ayurveda compendia for several colour of purish and mutra as per their different diseased conditions. | Cognitive (Application) | Nk | Kh | Discussion | Self- assessment | SA | III | |
| | Topic 13. Indriya vijnyand | <i>a</i> (2 hr) [Lecture: 1 | hour, non-le | ecture: 1 hour] | | | | | |
| CO 1 | Describe the <i>pancha-</i> <i>jnyaanendriya</i> and physiology of perception of <i>shabda, sparsha,</i> <i>rupa, rasa and gandha.</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Tutorial | Written/ Viva voce | F & S | III | Padarth vidnyan |
| CO 1 | Describe the physiology of <i>karmendriya</i> | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| | Topic 14. Manas (3 hr) [L | Lecture: 2 hours, no | n-lecture: 1 | hour] | I | | -1 | I | I |
| CO 1 | Describe location and properties, functions and objects of <i>manas</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |

| CO 7 | Describe the physiology of <i>dhee</i> , <i>driti</i> , <i>smriti</i> and | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | Kayachikitsa |
|------|--|------------------------------|-------------|-----------------|------------------------------------|-----------------------|-------|-----|--------------------|
| | <i>manovaha srotas</i> along with the applied | | | | Real life experience | | | | |
| | physiology of unmada and apasmara. | | | | | | | | |
| CO7 | Decribe <i>kriyatmak</i> (physiological) importance of <i>manas</i> | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| | Topic 15. Atma (2 hr) [Le | ecture: 2 hours, non | -lecture: 0 | hours] | · | | | · | · |
| CO 1 | Describe properties and functions of <i>atma</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | | |
| CO 7 | Enumerate the difference between <i>paramatma</i> and <i>jivatma</i> , characteristic features of <i>atma</i> in living beings. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | Padarth vidnyan |
| CO 7 | Explain characteristic features of <i>atma</i> in living beings. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO7 | Decribe <i>kriyatmak</i> (physiological) importance of <i>atma</i> | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion tutorials | Written/ Viva voce | | III | |
| | Topic 16. Nidra & Svapna | a (2 hr) [Lecture: 2] | hours, non | -lecture: 0 hou | urs] | | - | | |
| CO 1 | Describe the process of <i>nidrotpatti</i> , classify <i>nidra</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Explain the physiological and clinical significance of <i>nidra</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe <i>svapnotpatti</i> and types of <i>svapna</i> . | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Discuss about different types of <i>swapna</i> among your friends and try to understand ralation of <i>swapna & prakriti</i> . | Cognitive (Comprehension) | Nk | Kh | Group Discussion | Team assessment | ТА | III | |

| | Topic 1. Physiology of He | emopoietic System (' | 7 hr) [Lect | ure: 5 hours, r | on-lecture: 2 hours |] | | | |
|------|---|------------------------------|-------------|-----------------|----------------------------------|-----------------------|-------|---|-----------------------|
| CO 1 | Describe the composition, functions of blood and blood cells. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Stages and development of RBCs, WBCs, platelets. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe the composition and functions of bone marrow | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe the process of erythropoiesis and explain necessary facors for erythropoiesis. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I | |
| CO 1 | Describe the formation & destruction of RBCs | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe the structure, types, synthesis and functions of haemoglobin along with abnormalities of Hb. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I | |
| CO 1 | Describe the types of WBCs | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe the mechanism of hemostasis, (coagulation of blood) and blood clotting factors. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Seminar | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe the ABO & Rh system of blood group and explain the physiological basis of blood groups. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | Medical Physiology |
| CO 1 | Explain the concept of erythroblastosis fetalis on the basis of Rh incompatibility. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Seminar | Written/ Viva voce | F & S | I | |
| CO 1 | Describe the classification and | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |

| | functions of plasma proteins. | | | | | | | | |
|------|--|-------------------------------|-------------|----------------|----------------------------------|-----------------------|-------|---|--|
| CO 1 | Describe the properties and hemostasis functions of platelets. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe the physiological basis of manifestations of different blood disorders (anaemia, jaundice etc.) | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe the functions of spleen. | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe the functions of functions of lymph. | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| | Topic 2. Immune System | (2 hr) [Lecture: 2 h | ours, non- | lecture: 0 hou | urs] | | 1 | | |
| CO 1 | Describe classification of immunity (Innate, acquired and artificial), | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I | |
| CO 1 | Describe the different mechanisms involved in immunity: Humoral (B- cell mediated) and T-Cell mediated immunity. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I | |
| CO 1 | Distinguish between the passive immunization and active immunization | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I | |
| CO 1 | Describe the applied physiology of immunity: Immunodeficiency diseases, Hypersensitivity reactions, Auto-immune diseases etc. | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion Seminar | Written/ Viva voce | F & S | Ι | |
| | Topic 3. Cardiovascular | Physiology (7 hr) [L | ecture: 5 h | ours, non-lect | ture: 2 hours] | | | | |
| CO 1 | Describe the mechanical and electrical properties | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |

| | of heart muscles, describe different phases of the Cardiac cycle. | | | | | | | | |
|------|--|------------------------------|----------------|------------------|-----------------------|-----------------------|-------|----|--|
| CO 1 | Describe the physiological and clinical significance of heart sounds. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I | |
| CO 1 | Describe the physiology of regulation of cardiac output and venous return. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe the physiological basis of ECG. | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Describe the regulation of heart-rate and arterial pulse, | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I | |
| CO 1 | Define and describe the regulation of systemic arterial blood pressure | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I | |
| CO 1 | Describe the physiology of fetal circulation. | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ι | |
| CO 1 | Define and describe the regulation of systemic arterial blood pressure | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | I | |
| CO 1 | Describe the history of the discovery of blood circulation | Cognitive (Comprehension) | Nk | Kh | Online | Self assessment | SA | I | |
| | Topic 4. Muscle physiolog | gy (2 hr) [Lecture: 2 | 2 hours, non- | lecture: 0 hours | | | | | |
| CO 1 | Compare and contrast the functions and properties of skeletal muscles, cardiac muscles and smooth muscles. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | П | |
| CO 1 | Describe the physiology of muscle contraction of all types of muscles. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II | |
| | Topic 5. Skin, Adipose Ti | ssue and circulating | g Lipids (3 hr |) [Lecture: 2 ho | urs, non-lecture: | 1 hour] | | | |
| CO 1 | Describe the functions of the skin, sweat glands, sebaceous glands and subcutaneous tissue | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II | |

| CO 1 | Describe the functions of Adipose Tissue including adipokines | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | П |
|------|--|--------------------------------------|--------------|------------------|---------------------------------|-----------------------|-------|-----|
| CO 1 | Describe the process of formation & metabolism of lipoproteins like VLDL, LDL and HDL and that of triglycerides. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II |
| CO 1 | Describe the functional anatomy and physiology of the male reproductive system | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | П |
| CO 1 | Describe the physiology of regulation of spermatogenesis, functions of testosterone and male sexual act | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F&S | Π |
| CO 1 | Describe physiology of the female reproductive system including oogenesis, ovulation and hormonal regulation of the menstrual cycle | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | П |
| CO 1 | Describe the functions of placenta | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II |
| CO 1 | Describe the physiology of lactation | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | II |
| CO 1 | Describe the applied physiology of the reproductive system of male and female infertility. | Cognitive (Comprehension) | Nk | Kh | Lecture Discussion | Written/ Viva voce | F & S | П |
| | Topic 7. Renal Physiology | y (6 hr) [Lecture: 4 | hours, non-l | ecture: 2 hours] | | | | |
| CO 1 | Describe the functional anatomy of kidney. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III |
| CO 1 | Describe the functions of kidney, ureters and bladder. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ш |
| CO 1 | Describe stages of the mechanism of urine formation. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion Semiar | Written/ Viva voce | F & S | III |

| CO 1 | Describe control of micturition. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
|------|--|------------------------------|----|----|-----------------------|-----------------------|-------|-----|-----------------------|
| CO 1 | Describe the role of Juxta glomerular apparatus in regulation of blood pressure and pH of body fluids. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | Ш | Medical Physiology |
| CO 1 | Describe the applied physiology of the urinary system (urolithiasis, acute and chronic renal failure etc). | Cognitive (Comprehension) | Dk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the physiology of special senses. | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the visual process and visual pathway | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the mechanism of hearing and auditory pathway | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the taste, smell and skin sensation | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |
| CO 1 | Describe the physiology of sleep and dreams | Cognitive (Comprehension) | Mk | Kh | Lecture Discussion | Written/ Viva voce | F & S | III | |

List of Practicals

| | PRACTICALS (Marks-100) | | | |
|-----|--|------|---------|-----------------|
| | List of Topics | Term | Lecture | Non- Lecture |
| 1 | Dhatu sararata parikshana | Ι | 0 | 10 |
| 2. | Demonstrate laboratory equipment (spotting) | Ι | 0 | 1 |
| 3. | Demonstrate blood collection | Ι | 0 | 1 |
| 4. | Estimate haemoglobin | Ι | 0 | 2 |
| 5. | Estimate bleeding time & clotting time | Ι | 0 | 2 |
| 6. | Estimate blood grouping | Ι | 0 | 2 |
| 7. | Prakriti parikshana | II | 0 | 20 |
| 8. | Dosha vriddhi kshaya parikshana | II | 0 | 4 |
| 9. | Dhatu vriddhi kshaya parikshana | II | 0 | 5 |
| 10. | Nadi parikshana | II | 0 | 3 |
| 11. | Pulse examination | II | 0 | 2 |
| 12. | WBC estimation | II | 0 | 2 |
| 13. | RBC estimation | II | 0 | 2 |
| 14. | DLC estimation | II | 0 | 2 |
| 15. | Measurement of Blood pressure | II | 0 | 2 |
| 16. | Perform the procedure Inspection of respiratory system | II | 0 | 2 |
| 17. | Perform the procedure Inspection of heart sound | II | 0 | 3 |
| 18. | Agni parikshana | III | 0 | 6 |
| 19. | Koshtha parikshana | III | 0 | 2 |
| 20. | Urine examination | III | 0 | 2 |
| 21. | Demonstrate ESR, PCV | III | 0 | 1 |
| 22. | Observe the procedure of ECG | III | 0 | 2 |
| 23. | Perform the procedure of examining the cranial nerves and reflexes | III | 0 | 2 |

Table 4: Learning objectives (Practical) of AyUG- KS

| A4 Course outcom e | B4 Learning Objective (At the end of the session, the Students should be able to) | C4 Domain/ sub | D4 Must to know/ desirabl e to know/Ni ce to know | E4 Level Does/ Shows how/ Knows how/ Know | F4 T-L method | G4 Assessment | H4 Formativ e /summati ve | I4 Te rm | J4 Integratio n |
|-----------------------------|---|--|--|--|--|--|---------------------------------------|----------------|-----------------------|
| | AyUG – KS Practic Practical (100 mark 1. Assessment of prakr | s) =(Kriya | Sharir 50 + | - Physiology 30 + | - Non Lecture praction on-lecture: 20 hours] | cal activities 20) |) | | |
| CO 3 | Describe the procedure of <i>prakriti</i> <i>parikshan</i> of CCRAS portal. | Cognitive | Mk | Kh | Lecture Demonstration Discussion Observe Tutorial | Practical Viva voce | F & S | II | |
| CO 3 | Demonstrate <i>prakriti</i> <i>parikshan</i> under the supervision of teacher. | Psychomotor | Mk | Sh | Demonstration in practical room & Bed side clinic Discussion | Viva voce | F & S | II | |
| CO 3 | Determines <i>prakriti</i> of a paerson in an individual independently | Psychomotor | Mk | Dose | Demonstration in practical room & Bed side clinic Discussion Perform | Practical Viva voce Skill assessment OSPE, DOPS, CBD, Simulation | F & S | П | |
| CO 1 | Recite verses of <i>vata</i> , pitta & kapha prakriti. | Cognitive (Recall Comprehe nsion) | Dk | Kh | Discussion Recitation | Viva voce | F & S | Π | |
| | 2. Assessment of dhatu | ısarata pariksi | hana (10 class | es) [Lecture: 0 hou | rs, non-lecture: 10 hours |] | | | |
| CO 2 | Describe the procedure of | Cognitive | Mk | Kh | Lecture Demonstration Discussion Observe | Practical Viva voce | F & S | Ι | |

| | dhatusarata parikshana | | | | | | | |
|------|--|--|------------------|----------------------|---|--|-------|-----|
| CO 2 | Demonstrate dhatusarata parikshana under the supervision of the teacher. | Psychomot or | Mk | Sh | Demonstration in practical room & Bed side clinic Discussion Assist | Viva voce | F & S | I |
| CO 2 | Evaluates <i>dhatusarata</i> in an individual independently | Psychomot or | Mk | Dose | Demonstration Bed side clinic Discussion Perform | Practical Viva voce Skill assessment OSPE, DOPS, CBD, Simulation | F & S | I |
| CO 1 | Recite verses of <i>ashta dhatusarata</i> . | Cognitive (Recall & Comprehe nsion) | Dk | Kh | Discussion Recitation | Viva voce | F & S | I |
| | 3. Assessment of agni | varikshana (6 | classes) [Lec | ture: 0 hours, non-l | ecture: 6 hours] | | | |
| CO 2 | Discribe the procedure of <i>agni</i> <i>parikshana</i> | Cognitive/ comprehen sion | Mk | Kh | Lecture Demonstration Discussion Observe | Practical Viva voce | F & S | III |
| CO 2 | Demonstrate <i>agni</i> <i>parikshana</i> under the supervision of the teacher. | Psychomot or | Mk | Sh | Demonstration Bed side clinic Discussion Assist | Viva voce | F & S | III |
| CO 2 | Analyse <i>agni</i> in an individual independently | Psychomot or | Mk | Dose | Demonstration Bed side clinic Discussion Perform | Practical Viva voce Skill assessment OSPE | F & S | Ш |
| CO 1 | Recite verses of <i>agni</i> . | Cognitive (Recall & Comprehe nsion) | Dk | Kh | Discussion Recitation | Viva voce | F & S | Ш |
| | 4. Assessment of kosht | ha parikshand | a (2 classes) [] | Lecture: 0 hours, no | on-lecture: 2 hours] | | | |
| CO 2 | Discuss the procedure of <i>koshtha</i> <i>parikshana</i> | Cognitive | Mk | Kh | Lecture Demonstration Discussion Observe | Practical Viva voce | F & S | III |
| CO 2 | Demonstrate koshtha parikshana under the | Psychomot or | Mk | Sh | Demonstration Bed side clinic Discussion | Viva voce | F & S | Ш |

| | supervision of the teacher. | | | | Assist | | | | |
|------|--|-----------------|----|------|---|--|-------|-----|--|
| CO 2 | Evaluate <i>koshtha</i> of an individual independently | Psychomot or | Mk | Dose | Demonstration Bed side clinic Discussion rform | Practical Viva voce Skill assessment OSPE | F & S | III | |

| | 5. Assessment of dosha | ı vrddhi kshay | a lakshana (4 | classes) [Lecture: (|) hours, non-lecture: 4 ho | ours] | | |
|------|---|--|---------------|-----------------------|---|--|-------|----|
| CO 3 | Discuss the procedure of <i>dosha vrddhi</i> <i>kshaya lakshana</i> | Cognitive | Mk | Kh | Lecture Demonstration Discussion Observe | Practical Viva voce | F & S | Π |
| CO 3 | Demonstrate <i>dosha</i> <i>vrddhi kshaya</i> <i>parikshana</i> under the supervision of the teacher. | Psychomotor | Mk | Sh | Demonstration Bed side clinic Discussion Assist | Viva voce | F & S | Π |
| CO 3 | Perform <i>dosha vrddhi</i> <i>kshaya parikshana</i> in an individual independently | Psychomotor | Mk | Dose | Demonstration Bed side clinic Discussion Perform | Practical Viva voce Skill assessment OSPE | F & S | Π |
| CO 1 | Recite verses of dosha vrddhi kshaya. | Cognitive (Recall Comprehe nsion) | Dk | Kh | Discussion Recitation | Viva voce | F & S | Π |
| | 6. Assessment of dhatu | vrddhi kshay | a parikshana | (5 classes) [Lecture: | : 0 hours, non-lecture: 5 | hours] | | |
| CO 3 | Describe the procedure of <i>dhatu</i> <i>vrddhi kshaya</i> <i>lakshana</i> | Cognitive | Mk | Kh | Lecture Demonstration Discussion Observe | Practical Viva voce | F & S | П |
| CO 3 | Demonstrate <i>dhatu</i> <i>vrddhi kshaya</i> <i>parikshan</i> under the supervision of the teacher. | Psychomotor | Mk | Sh | Demonstration Bed side clinic Discussion Assist | Viva voce | F & S | Π |
| CO 3 | Perform <i>dhatu vrddhi</i> <i>kshaya parikshan</i> in an individual independently | Psychomotor | Mk | Dose | Demonstration Bed side clinic Discussion Perform | Practical Viva voce Skill assessment OSPE | F & S | II |
| CO 1 | Recite verses of | Cognitive | Dk | Kh | Discussion | Viva voce | F & S | II |

| dhatu vrdd | hi kshaya. (Recall & | | Recitation | | |
|------------|----------------------|--|------------|--|--|
| | Comprehe | | | | |
| | nsion) | | | | |

| ~~ ~ | | ~ | 2.0 | | | | | ~~ | |
|------|---------------------------------------|---------------|--------|----|-------------------------------------|--------------------------|--------|----|--|
| CO 5 | Describe the procedure of <i>nadi</i> | Cognitive | Mk | Kh | Lecture Demonstration Discussion | Practical Viva voce | F & S | Π | |
| | parikshana | | | | Observation Tutorial | viva voec | | | |
| CO 5 | Demonstrate nadi | Psychomotor | Mk | Sh | Demonstration | Viva voce | F & S | II | |
| | parikshana under the | | | | Bed side clinic | | | | |
| | supervision of the teacher. | | | | Discussion Assist | | | | |
| CO 5 | Find out recent | Cognitive | Mk | Kh | Lecture Demonstration | Practical | F & S | II | |
| 000 | advances in nadi | cognitive | | | Discussion | Viva voce | 1 00 0 | - | |
| | pariksha | | | | Observe | OSPE | | | |
| | Part B 30 practica | l of 2 hr ea | ch | | I | | | | |
| | [Lecture: 0 hours, not | n-lecture: 30 | hours] | | | | | | |
| CO 4 | Explain the general | Cognitive | Mk | Sh | Lecture Demonstration | Practical | F & S | Ι | |
| | laboratory etiquette | - | | | Discussion | Viva voce | | | |
| | demonstrate the use | | | | Observe | Skill assessment OSPE | | | |
| | of laboratory | Psychomotor | | | | USPE | | | |
| | equipment. | | | | | | | | |
| CO 4 | Discuss procedure of | Cognitive | Mk | Kh | Lecture Demonstration | Viva voce | F & S | Ι | |
| | collection of a blood | | | | Discussion | | | | |
| | sample – prick, | | | | Assist | | | | |
| | venepuncture method, use of | | | | | | | | |
| | anticoagulants. | | | | | | | | |
| CO 4 | Describe Observe | Cognitive | Mk | Kh | Lecture Demonstration | | F & S | Ι | |
| | procedure of | | | | Discussion | Viva voce | | | |
| | haemoglobin estimation, bleeding | | | | Assist | | | | |
| | time and clotting | | | | | | | | |
| | time, blood grouping | | | | | | | | |
| | and Rh typing, | | | | | | | | |

| | differential Leukocyte Counting procedure. | | | | | | | |
|------|--|-------------|----|----|--|--|-------|-----|
| CO 4 | Evaluate Hb, Bleeding time, clotting time, blood grouping & Rh typing, sebveral Leukocyte Count (independently). | Psychomotor | Mk | Sh | Lecture Demonstration Discussion Perform | Practical Viva voce Skill assessment OSPE | F & S | Ι |
| CO 4 | Describe the procedure of WBC counting, RBC counting. | Cognitive | Mk | Kh | Lecture Demonstration Discussion Assist | Viva voce | F & S | П |
| CO 4 | Count WBC, RBC (independentl y). | Psychomotor | Mk | D | Perform | Practical | F | П |
| CO 4 | Discribe the procedure of ESR, PCV | Cognitive | Mk | Sh | Lecture Demonstration Discussion Assist | Viva voce | F | III |
| CO 4 | Describe the procedure of physical and chemical examination of urine. | Cognitive | Mk | Kh | Lecture Demonstration Discussion Assist | Viva voce | F & S | III |
| CO 4 | Identify physical and chemical properties of urine. | Psychomotor | Dk | Sh | Lecture Demonstration Discussion Assist | Practical Viva voce Skill assessment OSPE, DOPS | F & S | Ш |
| CO 4 | Discuss the procedure of pulse examination demonstrated. | Cognitive | Mk | Kh | Lecture Demonstration Discussion Assist | Viva voce | F & S | П |
| CO 4 | Examine pulse independently. | Psychomotor | Mk | Sh | Lecture Demonstration Discussion Perform | Practical Viva voce Skill assessment OSPE | F & S | П |
| CO 4 | Describe the procedure of measurement of blood pressure | Cognitive | Mk | Kh | Lecture Demonstration Discussion Assist | Viva voce | F & S | П |

| CO 4 | Measure blood pressure (independently). | Psychomotor | Mk | Sh | Lecture Demonstration Discussion Perform | Practical Viva voce Skill assessment OSPE | F & S | П |
|------|---|-------------|----|----|--|--|-------|-----|
| CO 4 | Discuss the procedure of inspection of CVS and assessment of heart sounds | Cognitive | Mk | Kh | Lecture Demonstration Discussion Assist | Viva voce | F & S | П |
| CO 4 | Illustrate inspection of CVS and assessment of heart sounds (independently). | Psychomotor | Mk | Sh | Lecture Demonstration Discussion Perform | Practical Viva voce Skill assessment OSPE | F & S | П |
| CO 4 | Discuss the procedure of ECG recording demonstrated by the teacher. | Cognitive | Mk | Kh | Lecture Demonstration Discussion Assist | Viva voce Spotting | F & S | П |
| CO 4 | Discuss procedure of inspection of the respiratory system demonstrated by the teacher. | Cognitive | Mk | Kh | Lecture Demonstration Discussion Assist | Viva voce | F & S | П |
| CO 4 | Examine of the respiratory system (independently). | Psychomotor | Mk | Sh | Lecture Demonstration Discussion Perform | Practical Viva voce Skill assessment OSPE | F & S | П |
| CO 4 | Discuss the procedure of examining the cranial nerves and reflexes (superficial/ deep /visceral) demonstrated by the teacher. | Cognitive | Mk | Kh | Lecture Demonstration Discussion Assist | Viva voce Skill assessment OSPE | F & S | III |
| CO 4 | Perform the procedure of examining the cranial nerves and | Psychomotor | Mk | Sh | Lecture Demonstration Discussion Perform | Practical Viva voce Skill assessment OSPE | F & S | III |

| reflexes | | | | |
|--------------------|--|--|--|--|
| (superficial/deep/ | | | | |
| visceral) by | | | | |
| students | | | | |
| independently. | | | | |

| Theo | ory Non Lecture 50 (Paper I -25 & Paper II-25) | No of Activity hours |
|-------------------|--|----------------------|
| 1. | Assignment - homework based | 3 |
| 2. | Brainstorming | 2 |
| 3. | Buzz group | 1 |
| 4. | Case based learning | 1 |
| 5. | Confusion technique | 1 |
| 6. | Debate | 1 |
| 7. | Demonstration | 2 |
| 8. | Direct observation skill (DOPS) | 1 |
| 9. | Flipped classroom | 1 |
| 10. | Group Discussion | 3 |
| 11. | Jigsaw or puzzle | 1 |
| 12. | Mnemonics | 2 |
| 13. | Model based learning | 1 |
| 14. | Online teaching aids | 1 |
| 15. | Panel discussion | 1 |
| 16. | Problem based learning | 2 |
| 17. | Real-life experience | 1 |
| 17. | Recitation | 3 |
| 19. | Role Play | 1 |
| $\frac{19.}{20.}$ | Self directed learning | 3 |
| 20. | Seminar by students | 5 |
| 22. | Simulated condition | 1 |
| 23. | Shiftated condition Skill assessment | 2 |
| <u>23.</u> 24. | Symposium | 2 |
| <u>24.</u> 25. | Team project work | 1 |
| <u>25.</u> 26. | Think-Pair-Share | 2 |
| | Tutorial | |
| 27. 28. | Video show | 3 2 |
| | tical Non Lecture 100 (200 hours) | 2 |
| 1 | Averyada Practicala 50 | 100 |
| 1. 2. | Ayurveda Practicals – 50 Modern Practicals – 30 | 60 |
| <u>2.</u> 3. | Activity based learning -20 | 40 |
| 5. | Communication Skills, Small project / Experiment designing, | ντν |
| | Task-based learning, Teamwork based learning, Team project, | |
| | Problem Based Learning (PBL)/(CBL), Group Discussion, | |
| | Workshops, Field visits, Preparation of charts 1, models and | |
| | computerized simulation models etc. , Seminar presentations by | |
| | students | |
| | Total Non Lecture hours | 250 |

Table 5: Non-Lecture Activities Course AyUG- KS

Additional Suggested topics for tutorials

| Point No. | Name of Topic |
|-------------------|--|
| T – 1 CO 6 | Atma lakshana |
| T - 2 CO3 | Characteristics of Prakriti Eka doshaja, dwandwaja and sama prakriti. Clinical importance of deha prakriti, anukatva. |
| T – 3 CO5 | Nadi vigyan |
| T – 4 CO6 | Anukatva |
| T – 5 CO6 | Indriya panch panchak and physiological study of panchajyanendriya and panchakarmendriya. |
| T – 6 CO6 | Meanings of terminologies used for dhatu poshana nyaya related to dhatu poshana |
| T – 7 CO1 | Ahara dravya vargikarana |
| T – 8 CO1 | Avasthapaka & Vipak |

Suggested topics for seminar topics

| Sr. No. | Content |
|--------------------------|--|
| S – 1 CO8 | Tridosha |
| S – 2 CO8 | Agni |
| S – 3 CO8 | Rasa rakta samvahan |
| S – 4 CO8 | Pranavah srotas and shwasana prakriya |
| S – 5 CO8 | Ashtavidh sara |
| S – 6 CO8 | Trividh nyaya |
| S – 7 CO8 | Prakriti |
| S – 8 CO8 | Basic concept of nervous system |
| S – 9 CO8 | Rh Incompatibility |
| S – 10 CO8 | Digesion of Carbohydrates, proteins & fats |
| S – 11 CO8 | Blood clotting mechanism |
| S – 12 CO8 | Immune system |
| S – 13 CO8 | O ₂ -Co ₂ gasious exchange |
| S – 14 CO8 | Hormones |
| S – 15 CO8 | Renal system |

Suggested topics for group discussion

| Sr. No. | Content | | | | |
|--------------------------|--|--|--|--|--|
| GD – 1 CO1 | Dosha dhatu mala mulam hi shariram | | | | |
| GD – 2 CO1 | Concept of agni | | | | |
| GD – 3 CO1 | Concept of upadhatu | | | | |
| GD – 4 CO1 | Role of ranjak pitta in formation of rakta dhatu | | | | |
| GD – 5 CO1 | Concept of <i>srotas</i> | | | | |
| GD – 6 CO1 | Physiology of purishadhara kala / asthidhara kala. | | | | |
| | Pittadhara kala/ majjadhara kala | | | | |
| GD – 7 CO1 | Generation of <i>doshas</i> | | | | |
| GD - 8 CO1 | Ashraya-ashrayi bhava sambhadha of asthi and vata | | | | |
| GD – 9 CO1 | Process of urine formation described in ayurveda compendia | | | | |
| GD - 10 CO1 | Avasthapaka | | | | |
| GD – 11 CO1 | Concept of shatkriyakala | | | | |
| GD – 12 CO1 | Manas Prakruti | | | | |

Table 6: Assessment Summary

| | | Practical/Clinical Assessment | | | | | Grand | | |
|-------|--------------|-------------------------------|----------|------------|--------|-----------|-------|-------|-------|
| S.No. | Subject Code | Papers | Theory | Practical/ | Viva | Electives | IA | Sub | Total |
| | | | Clinical | | v i va | LICCUVCS | ••• | Total | Totar |
| 1. | AyUG-KS | 2 | 200 | 100 | 70 | - | 30 | 200 | 400 |

6 A- Number of papers and Marks Distribution

6 B - Scheme of Assessment (formative and Summative)

| | | DURATION OF PROFESSIONAL COURSE | | | | | |
|--------|------------------------|---------------------------------|------------------------------|------------------------------|--|--|--|
| SR.NO. | PROFESSIONAL COURSE | First Term (1-6 Months) | Second Term (7-12 Months) | Third Term (13-18 Months) | | | |
| 1 | First | 3 PA & First TT | 3 PA & Second TT | 3 PA & UE | | | |
| | | | | | | | |

PA: Periodical Assessment; TT: Term Test; UE: University Examinations

| | PERIODICAL ASSESSMENT* | | | | | | TERM ESSMENT | |
|-----------------|--|---|-----------------|----------------------|--|--|-------------------------------|-----------------------------|
| TERM | Α | В | С | D | Ε | F | G | Н |
| | 1 (15 Marks) | 2 (15 Marks) | 3 (15 Marks) | Average (A+B+C/3) | Converted to 30 Marks (D/15*30) | Term Test (Marks converted to 30) | Sub Total _/60 Marks | Term Assessment (/30) |
| FIRST | | | | | | | E+F | (E+F)/2 |
| SECOND | | | | | | | E+F | (E+F)/2 |
| THIRD | | | | | | NIL | | Е |
| Final IA | | Avera | ge of Thr | ee Term Asse | essment Marks a | s Shown in 'I | H' Colum | n. |
| | *Select an for Peroad ** Condu Marks) | Maximum Marks in Parentheses *Select an Evaluation Methods which is appropriate for the objectives of Topics from the Table 6 D for Peroadic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert to 30 marks. | | | | | | |

6 C - Calculation Method for Internal assessment Marks (30 Marks)

6 D - Evaluation Methods for Periodical Assessment

| S. No. | Evaluation Methods for Periodical Assessment |
|--------|--|
| 1. | Practical / Clinical Performance |
| 2. | Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions) |
| 3. | Open Book Test (Problem Based) |
| 4. | Summary Writing (Research Papers/ Samhitas) |
| 5. | Class Presentations; Work Book Maintenance |
| 6. | Problem Based Assignment |
| 7. | Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD) |
| 8. | Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department). |
| 9. | Small Project |
| 10. | Other activities explained in Table 3 Column G3 as per indicated term and objective of the top]ic. |

6 E- Paper Layout

I PROFESSIONAL BAMS EXAMINATIONS

AyUG-KS

Paper-I

Time: 3 HoursMaximum Marks: 100INSTRUCTIONS: All questions compulsoryTOTAL MARKS 100.

| | | Number of Questions | Marks per question | Total Marks |
|-----|---------------------------------|------------------------|--------------------|-------------|
| Q 1 | Multiple Choice Questions (MCQ) | 20 | 1 | 20 |
| Q 2 | Short answer questions (SAQ) | 8 | 5 | 40 |
| Q 3 | Long answer questions (LAQ) | 4 | 10 | 40 |
| | | | | 100 |

AyUG-KS

Paper-II

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory TOTAL MARKS 100.

| | | Number of Questions | Marks per question | Total Marks |
|-----|---------------------------------|------------------------|--------------------|-------------|
| Q 1 | Multiple Choice Questions (MCQ) | 20 | 1 | 20 |

| Q 2 | Short answer questions (SAQ) | 8 | 5 | 40 |
|-----|------------------------------|---|----|-----|
| Q 3 | Long answer questions (LAQ) | 4 | 10 | 40 |
| | | | | 100 |

6 F- Disribution of Theory Exam

| | Paper I Part-A (Marks-60) | | | D Type of Questions "Yes" can be asked. "No" should not be asked. | | | |
|------|---|-----------|------------|--|------------------|-------------------|--|
| | A List of Topics AyUG-KS | B Term | C Marks | MCQ (1 Mark) | SAQ (5 Marks) | LAQ (10 Marks) | |
| 1 | Sharir: | I | Marks | Yes | Yes | No | |
| 2 | Basic principles of Ayurveda: | I | 8 | Yes | Yes | No | |
| 3. | Tridosha: | Ι | - | Yes | Yes | No | |
| 4. | Vata Dosha: | Ι | | Yes | Yes | Yes | |
| 5. | Pitta Dosha: | Ι | 26 | Yes | Yes | Yes | |
| 6. | Kapha Dosha: | Π | - 26 | Yes | Yes | Yes | |
| 7. | Dosha Vriddhi-Kshaya: | II | | Yes | Yes | No | |
| 8. | Kriyakala: | II | | Yes | Yes | No | |
| 9 | Prakriti: Deha- Prakriti: Manasa- Prakriti: | Π | | Yes | Yes | Yes | |
| 10. | Ahara: | III | 26 | Yes | Yes | Yes | |
| 11. | Agni: | III | | Yes | Yes | Yes | |
| 12. | Aharapaka | III | | Yes | Yes | Yes | |
| Part | -B (Marks-40) | | | | | | |
| 1 | Physiology Homeostasis: | Ι | | Yes | Yes | Yes | |
| 2 | Physiology of Respiratory system: | II | 23 | Yes | Yes | Yes | |
| 3 | Physiology of Gastrointestinal system: | II | | Yes | Yes | Yes | |
| 4 | Physiology of Nervous System: | III | 17 | Yes | Yes | Yes | |
| 5 | Physiology of Endocrine glands: | III | 1/ | Yes | Yes | Yes | |

| | | | | _ | D | | |
|------|--|------|-------|---|------------------|---------------|--|
| | Paper II PART-A (Marks-60) | | | Type of Questions "Yes" can be asked. "No" should not be asked. | | | |
| | Α | В | С | MCQ | | | |
| | A List of Topics AyUG-KS | | Marks | MCQ (1 Mark) | SAQ (5 Marks) | LAQ (10 | |
| | | Term | Marks | (I Mark) | (5 Marks) | (10 Marks) | |
| Part | -A (Marks-60) | | | | | | |
| 1 | Dhatu: | Ι | | Yes | Yes | No | |
| 2 | Rasa Dhatu: | Ι | | Yes | Yes | Yes | |
| 3. | Rakta Dhatu:. | Ι | 18 | Yes | Yes | Yes | |
| 4. | Mamsa Dhatu: | Ι | | Yes | Yes | Yes | |
| 5. | Meda Dhatu: | Ι | | Yes | Yes | Yes | |
| 6. | Asthi Dhatu: | II | | Yes | Yes | Yes | |
| 7. | Majja Dhatu : | II | 1 | Yes | Yes | Yes | |
| 8. | Shukra Dhatu: | II | 19 | Yes | Yes | Yes | |
| 9 | Concept of Ashraya-Ashrayi bhava | II | | Yes | Yes | No | |
| 10. | Ojas: | II | | Yes | Yes | Yes | |
| 11. | Upadhatu: | | | | | | |
| | Stanya: | Π | | Yes | Yes | Yes | |
| | Artava: | 11 | | 105 | 105 | 105 | |
| | Tvak: | | | | | | |
| 12. | Mala: | | | | | | |
| | Purisha: Mutra: | ш | | Yes | Yes | Yes | |
| | Sveda: | 111 | 23 | 168 | res | res | |
| | Dhatumala: | | | | | | |
| 13 | Indriya vidnyan: | III | | Yes | Yes | Yes | |
| 14 | Manas: | III | | Yes | Yes | Yes | |
| 15 | Atma: | III | | Yes | Yes | No | |
| 16 | Nidra & Swapna: | III | | Yes | Yes | No | |
| Part | -B (Marks-40) | | | | | | |
| 1 | Haemopoetic system: | Ι | | Yes | Yes | Yes | |
| 2 | Immunity: | Ι | 18 | Yes | Yes | No | |
| 3 | Physiology of cardio-vascular system: | Ι | | Yes | Yes | Yes | |
| 4 | Muscle physiology: | II | 07 | Yes | Yes | No | |
| 5 | Adipose tissue: | II | 0/ | Yes | Yes | No | |
| 6 | Physiology of male and female reproductive | II | | Yes | Yes | Yes | |
| 7 | Physiology of Excretion: | III | 15 | Yes | Yes | Yes | |
| 8 | Special Senses, Sleep and Dreams: | III | | Yes | Yes | Yes | |

6 G- Question paper blue print

Paper I

| Α | B | С |
|----------------------|--|---|
| A Question Sr. No | D Type of Question | Question Paper Format |
| .Q1 | Multiple choice Questions (MCQ) 20 Questions 1 mark each All compulsory Must know part - 15 MCQ Desirable to know - 3 MCQ Nice to know part - 2 MCQ | MCQ no.Topic No1.Topic number part A 12.Topic number part A 23.Topic number part A 34.Topic number part A 45.Topic number part A 46.Topic number part A 57.Topic number part A 68.Topic number part A 79.Topic number part A 911.Topic number part A 912.Topic number part A 913.Topic number part A 1013.Topic number part A 1215.Topic number part A 1216.Topic number part B 117.Topic number part B 319.Topic number part B 420.Topic number part B 5 |
| Q2 | Short answer Questions (SAQ) Eight Questions 5 Marks Each All compulsory Must know - 7 SAQ Desirable to know - 1 SAQ No questions on Kice to know | Topic no. Part A 1/ Topic no. Part A 2/ Topic no. Part A 3 Topic no. Part A 4/ Topic no. Part A 5/ Topic no. Part A 6 Topic no. Part A 7/Topic no. Part A 8 Topic no. Part A 9/Topic no. Part A 10 Topic no. Part A 11/ Topic no. Part A 12/ Topic no. Part B 1/ Topic no. Part B 2/ Topic no. Part B 3 Topic no. Part B 4/ Topic no. Part B 5 |
| Q3 | Long answer Questions (LAQ) | Topic no. Part A 4/ Topic no. Part A 5/ Topic no. Part A 6 Topic no. Part A 9/ Topic no. Part A 10/ Topic no. Part A 11/ |

| Four Questions | Topic no. Part A 12 |
|---------------------------------|---|
| 10 marks each All compulsory | 3. Topic no. Part B 1/ Topic no. Part B 2/ Topic no. Part B 3 |
| | 4. Topic no. Part B 4/ Topic no. Part B 5 |
| All questions on | |
| must know. No | |
| Questions on | |
| Nice to know and | |
| Desirable to know | |

Paper II

| AyUG-KS | | | |
|----------------------|--|--|--|
| A Question Sr. No | B Type of Question | C Question Paper Format | |
| .Q1 | Multiple choice Questions (MCQ) 20 Questions 1 mark each All compulsory Must know part - 15 MCQ Desirable to know - 3 MCQ Nice to know part - 2 MCQ | MCQ no. Topic no. 1. Topic number part A 1/2 2. Topic number part A 3 3. Topic number part A 4/5 4. Topic number part A 6 5. Topic number part A 7 6. Topic number part A 8 7. Topic number part A 9/10 8. Topic number part A 11 9. Topic number part A 12 10. Topic number part A 13/14/15/16 11. Topic number part B 1 12. Topic number part B 3 14. Topic number part B 4 15. Topic number part B 5 16. Topic number part B 6 17. Topic number part B 7 19. Topic number part B 7 20. Topic number part B 7 20. Topic number part B 7 | |
| Q2 | Short answer Questions (SAQ) Eight Questions 5 Marks Each All compulsory Must know - 7 | Topic no. Part A 1/ Topic no. Part A 2/ Topic no. Part A 3/ Topic no. Part A 4/ Topic no. Part A 5 Topic no. Part A 6/ Topic no. Part A 7/ Topic no. Part A 8/ Topic no. Part A 9/ Topic no. Part A 10 Topic no. Part A 11/ Topic no. Part A 12 Topic no. Part A 13/ Topic no. Part A 14/ Topic no. Part A 15 | |

| | Desirable to know - 1 SAQ No questiona on Nice to know | Topic no. Part A 16 5. Topic no. Part B 1/ Topic no. Part B 2/ Topic no. Part B 3/ 6. Topic no. Part B 4/ Topic no. Part B 5 7. Topic no. Part B 6/ Topic no. Part B 8 8. Topic no. Part B 7 |
|----|--|---|
| Q3 | Long answer Questions (LAQ) Four Questions 10 marks each All compulsory All questions on Must know. No Questions on Nice to know and Desirable to know | Topic no. Part A 2/ Topic no. Part A 3/ Topic no. Part A 4/ Topic no. Part A 5 Topic no. Part A 6/ Topic no. Part A 7/ Topic no. Part A 8/ Topic no. Part A 10 Topic no. Part A 11/ Topic no. Part A 12/ Topic no. Part A 13/ Topic no. Part A 14 Topic no. Part B 1/ Topic no. Part B 2/ Topic no. Part B 3 |

6 H Distribution of Practical Exam

(Practical 100 +Viva 70+ IA 30) = (Total 200 Marks)

| | AyUG-KS | | |
|----|----------------|--|----------|
| SN | Heads | Торіс | Marks |
| Α | Practical | | |
| 1 | Spotting | Spotting (including two problem-based test) | 10 Marks |
| | | 1. Histology slide | |
| | | 2. ECG report (counting heart rate etc.) | |
| | | Blood report (normal-abnormal values and significance) | |
| | | 4. Photograph of prakruti character. | |
| | | 5. Problem based sara/agni parikshan. | |
| | | 6. Case of vrudhhi kshay lakshan. | |
| | | Aplicability of one spot used in haematological practical. | |
| | | 8. Identify the difference between two things & use. | |
| | | 9. Model based | |
| | | 10. Human experiment related | |
| 2 | Ayu. Practical | Performance based components. (Take only one practical | 40 Marks |
| | | separately OR make combination of few components of more | |
| | | than one practical) | |
| | | Ayurveda practical - | |
| | | Prakriti parikshana (Self / volunteer / patients) | |

| | | Sara parikshana | |
|---|----------------|---|-----------|
| | | Agni & koshtha parikshana | |
| | | Dosha vrddhi-kshaya lakshana/ | |
| | | Dhatu vriddhi -kshaya Lakshana | |
| 3 | Lab. Practical | Laboratory practical | 30 Marks |
| | | (Hb, BT, CT, Blood group, Urine exam) Human physiology | |
| | | practical (pulse examination, BP, heart sounds, reflexes) | |
| 4 | Project work | Project work (Activity based) | 10 Marks |
| 5 | Practical | Practical Record | 10 Marks |
| | Record | | |
| | | Total | 100 Marks |
| B | Viva Voce | General viva voce based on Ayurveda (20), | 70 Marks |
| | | Viva on instruments (20), | |
| | | Structured viva on Part B (refer Table 2)(10), | |
| | | Recitation of verses (15), and | |
| | | Communication skill (5) | |
| С | IA | Internal Assessment | 30 Marks |
| | | Total Marks | 200 Marks |

7. References / Resourses

- Ayurvediya Kriyasharir Ranjit Rai Desai
- Kayachikitsa Parichaya C. Dwarikanath
- Prakrit Agni Vigyan C. Dwarikanath
- Sharir Kriya Vigyan Shiv Charan Dhyani
- Abhinava Sharir Kriya Vigyana Acharya Priyavrata Sharma
- Dosha Dhatu Mala Vigyana Shankar Gangadhar Vaidya
- Prakrita Dosha Vigyana Acharya Niranjana Dev
- Tridosha Vigyana Shri Upendranath Das
- Sharira Tatva Darshana Hirlekar Shastri
- Prakrita Agni Vigyana Niranjana Dev
- Deha Dhatvagni Vigyana Vd. Pt. Haridatt Shastri
- Sharir Kriya Vigyana (Part 1-2) Acharya Purnchandra Jain
- Abhinava Sharir Kriya Vigyana Dr. Shiv Kumar Gaur
- Pragyogik Kriya Sharir Acharya P.C. Jain
- Kaya Chikitsa- Ramraksha Pathak
- Kaya Chikitsa Parichaya Dr. C. Dwarkanath
- Concept of Agni Vd. Bhagwan Das
- Purush Vichaya Acharya V.J. Thakar
- Kriya Sharir Prof. Yogesh Chandra Mishra
- Sharira Kriya Vijnana (Part 1 and 2) Nandini Dhargalkar
- Sharir Kriya Vigyana Prof. Jayaram Yadav & Dr. Sunil Verma.
- Kriya Sharir mcq Dr. Kiran Tawalare
- Basic Principles of Kriya-Sharir (A treatise on Ayurvedic Physiology) Dr. Srikant Kumar Panda
- Sharir Kriya Part I & Part II Dr. Ranade, Dr. Deshpande & Dr. Chobhe
- Human Physiology in Ayurveda Dr Kishor Patwardhan
- Textbook of Physiology Gyton & Hall
- Review of medical physiology William Ganong
- Essentials of Medical Physiology Sembulingam, K.
- Concise Medical Physiology Chaudhari, Sujit. K.
- Fundamental of Anatomy & Physiology Martini
- Principals of Anatomy & Physiology Tortora & Grabowski
- Human Physiology Richards, Pocock
- Samson Wrights Applied Physiology, Keele, Neil, joels
- Ayurveda Kriya Sharira Yogesh Chandra Mishra
- Textbook of Medical Physiology Indu Khurana
- Tridosha Theory Subrahmanya Shastri
- Dosha Dhatu Mala vigyan S. G. Vartak
- Purush Vichaya Jayanad Thakar
- All Samhitas.
- Ayurvediya Shabda kosha.
- Vachaspatyam
- Shabdakalpadrum
- Monir Williams Sanskrit dictionary.

COURSE CURRICULUM FOR FIRST PROFESSIONAL BAMS (PRESCRIBED BY NCISM)



SAMHITA ADHYAYAN-1 (SUBJECT CODE- AyUG-SA1) STUDY OF AYURVEDA CLASSICAL TEXT (Applicable from 2021-22 batch onwards for 5 years or until

further notification by NCISM, whichever is earlier)



BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110058



NCISM I professional Ayurvedcharya (BAMS)

Subject Code: AyUG-SA1

Samhita Adhyayan 1

Summary

| Total nun | nber of Teaching | : 400 | |
|----------------------------|------------------|-------|-------------|
| Lecture (LH) - Theory | | | 140 |
| Paper I | 140 | 140 | 140 (LU) |
| | | | (LH) |
| Non-Lecture (NLH) – Theory | | | |
| Paper I | 260 | 260 | 260 |
| | | | (NLH) |
| | | | |

| Examination (Papers & Mark Distribution) | | | | | |
|--|------------------------|---------------------------|------|----------------|----|
| Item | Theory Component Marks | Practical Component Marks | | ırks | |
| | | Practical | Viva | Elective | IA |
| Paper I | 100 | | 75 | 10 (Set-FC) | 15 |
| Sub-Total | 100 | 100 | | | |
| Total marks | | 200 | | | |

PREFACE

The main purpose of Samhita teaching is to enable the students to read, understand and practice the Samhitas. Samhita is nothing but an ancient Practical Manual of Ayurveda. Samhita teaching and learning process need to be practically oriented for a better understanding of the subject. It is the need of time to make some addition in the current teaching and learning process of Samhita to make it more relevant, practical, and contemporary. New teaching technology tools will certainly be helpful in the effective delivery of knowledge of Samhita. As per the revised regulation, the nomenclature of the subject is **Samhita Adhyayana-I**.

The subject includes Ashtanga Hridayam Sutrasthana 1 to 15 chapters and Charaka Samhita Sutrasthana 1 to 12 chapters as a part of Samhita Adhyayana-I for First Professional BAMS course. In this revision, NCISM has tried its best to take Samhita teaching beyond the four walls of the classroom and connected it with todays' living of people and society. For effective content delivery and to create interest in the subject of Samhita, it becomes evident to teach Samhita with practical demonstrations.

Samhita Path is the first step and most effective method of Samhita teaching adopted and practiced by our ancient acharyas. In order to facilitate practice the ancient Samhita learning, twice the non-lecture class of the total classes is exclusively reserved for Samhita learning activity. To make baseline uniformity in the process of learning, teaching methodology guidelines are provided which shall be followed while teaching the chapters of both the Samhitas. Students learn various principles of Ayurveda in Samhitas. Terminologies make the task initially difficult. Hence to make the Samhita learning more interesting, various education technology tools are included in the curriculum at various places understanding the need of the topic. Activity-based learning will enable the internalization of the concepts and will build a strong platform while learning other subjects of Ayurved.

As explained in Samhitas things learned in shastra(Science) and experience practically both when happens together will enhance the knowledge. It will further lead to application in practice.

Index

| Course Code and Name of Course | 5 |
|---|----|
| AyUG-SA1 | 5 |
| Samhita Adhyayan 1 | 5 |
| Table 1- Course learning outcomes and matched PO. | 5 |
| Table 2 : Contents of Course AyUG-SA1 | 6 |
| Table 3: Learning objectives (Theory) of Course AyUG-SA1 | 16 |
| Table 4 : Practical/ Activities for AyUG - SA 1 | 67 |
| Table 5: Non Lecture Activities Course AyUG-SA1 | 68 |
| Table 6: Assessment Summary | 75 |
| 6 A- Number of Papers and Marks Distribution | 75 |
| 6 B - Scheme of Assessment (formative and Summative) | 75 |
| 6 C - Calculation Method for Internal assessment Marks (15 Marks) | 75 |
| 6 D - Evaluation Methods for Periodical Assessment | 75 |
| 6 E - Paper Layout | 76 |
| 6 F - Disribution of Theory Exam | 76 |
| 6 G - Question paper blue print | 77 |
| 6 H - Distribution of Practical Exam | 79 |
| 7. Reference books/Resourses | 79 |
| | |

Course Code and Name of Course

| Course code | Name of Course |
|-------------|--------------------|
| | |
| AyUG-SA1 | Samhita Adhyayan 1 |
| | |

AyUG SA1 Course

Table 1- Course learning outcomes and matched PO.

| | | B1 |
|-----|--|-----------------|
| CO | Course learning Outcomes (CO) AyUG SA1 | Course learning |
| No | At the end of the course AyUG-SA1, the students should be able to- | Outcomes |
| | | matched with |
| | | program |
| | | learning |
| | | outcomes. |
| CO1 | Distinguish the different <i>Samhitas</i> , their importance and methodology and familiarize with the tools of <i>Samhita Adhyayan</i> . (eg: <i>tantrayukti</i>) | PO2, PO9 |
| CO2 | Interpret and apply the <i>sutras</i> from the <i>Samhitas</i> . | PO1 |
| CO3 | Apply and evaluate the <i>Tridosha</i> , <i>Saptadhatu</i> and <i>Mala</i> principles (theory). | PO1, PO3, PO5 |
| CO4 | Practice and prescribe <i>Dincharya</i> (daily regimen), <i>Ritucharya</i> (seasonal regimen) and dietary principles for preservation of health. | PO2, PO7, PO8 |
| CO5 | Explore and distinguish different types of food, food groups and medicinal <i>dravyas</i> mentioned in <i>Samhitas</i> . | PO1, PO2 |
| CO6 | Identify various etiopathological factors and predict different treatment principles | PO1, PO5 |
| C07 | Recognize and explain the fundamentals behind various therapeutics (<i>Shodhan</i> and allied) and parasurgical therapies. | PO2, PO5 |
| CO8 | Develop a code of behavior and show mature behaviour in particular to the scientific deliberations. | PO 6, PO 9 |

| Sr | A2 | B2 | C2 | D2 | E2 |
|-------|--|--------|------------|---------|-------------|
| No | List of Topics AyUG-SA1 | Term | Marks | Lecture | Non-Lecture |
| | | | | | |
| 1. | Introduction to Samhita- | 1 | | | |
| | i. Definition of Samhita and its types | | | | |
| | and nomenclature. (Samhita- forms, | | | | |
| | nomenclature, commentary, types | | | | |
| | etc.) | | | | |
| | ii. Brief Introduction of Samhitas | | | | |
| | (Bruhatrayee), their commentaries | | | | |
| | and commentators (Preceptors, aut | | | | |
| | hours, redactors, commentators) | 1 | (Indicated | 15 | 09 |
| | iii. Tantrayukti, Tantraguna and | _ | in Viva) | _ | |
| | Tantradosha | | | | |
| | iv. RachanaShaili & BhashaShaili | | | | |
| | (Composition and Language style) of | | | | |
| | Bruhatrayee. | | | | |
| | v. Anubandha Chatushtya | | | | |
| | vi. Ashta-Prashna | | | | |
| | vii. Trividha Jnyanopaya | | | | |
| Ashta | ng Hriday Samhita - Sutrasthan (1-15 Adhya | iva) - | 50 marks | | |
| 2. | AH Su.1. Ayushkamiya Adhyaya- | | | | |
| | i. Ashtang Hridaya parichaya | | | | |
| | (Introduction to Ashtang Hridaya) | | | | |
| | ii. Dosha-dhatu-mala parichaya | | | | |
| | (Introduction to dosha, dhatus and | | | | |
| | mala) | | | | |
| | iii. Agni- koshtha swarup (Concept of digastive fire and howel habite) | | | | |
| | digestive fire and bowel habits)iv. Rasa, virya, vipaka prabhav guna | | | | |
| | parichaya (Introduction to rasa, virya, | | | | |
| | vipaka, prabhav and guna) | | | | |
| | v. Rog-aarogya swaroop (Concept of | 1 | | 08 | 03 |
| | health and disease) | | | | |
| | vi. Roga-aatur parikshan (Assessment of | | | | |
| | disease and diseased) | | | | |
| | vii. Desha and kaala parichaya | | | | |
| | (Introduction to habitat and time) | | | | |
| | viii. Chikitsa bheda (Types of treatment)ix. Pada chatushtaya Swaroopam | | | | |
| | (Concepts of four factors of | | | | |
| | treatment) | | | | |
| | x. Vyadhi sadhyasadhyatva (Types of | | | | |
| | prognosis) | | | | |

Table 2 : Contents of Course AyUG-SA1

| | xi. Recitation of important shlokas | | | |
|----|--|----|----|----|
| 3. | AH Su.2.Dinacharya Adhyaya-i.Dincharya vihaar (Importance of various regimen in Dincharya)ii.Shuddhi Niyam (Personal hygiene)iii.Dharmapalan evam sadvrutta palaniv.Recitation of important shloka | 1 | 05 | 04 |
| 4. | AH Su.3. Rutucarya Adhyaya- i. Shadrutu (Classification of seasons according to Uttarayan and Dakshinayan) ii. Rutucharya (detailed regimen of the six seasons) iii. Rutusandhi (inter-seasonal period) iv. Recitation of important shlokas | 1 | 05 | 04 |
| 5. | AH Su.4. Roganutpadaniya Adhyaya- i. Adharaneeya vega and chikitsa (symptoms arising due to suppression of natural urges and their treatment) ii. Dharneeya vega (Concept of urges which hav eto be suppressed) iii. Shodhan chikitsa (Importance of purification treatments) iv. Hita-aahar-vihar sevan (Importance of following healthy lifestyle) v. Recitation of important shlokas | Ι | 05 | 04 |
| 6. | AH Su.5. Dravadravya Vijnaniya Adhyaya- i. Jala Varga (Water from different sources, various states of water) ii. Dugdha Varga (Milk and milk products) iii. Ikshu Varga (Sugarcane and its products) iv. Madhu varnana (Properties of honey) v. Tail Varga (Oils of various sources) vi. Madya Varga (Types of alcoholic beverages) vii. Mutra Varnana (Types of urine) viii. Recitation of important shlokas | Ι | 05 | 04 |
| 7. | AH Su.6. Annaswaroopa Vijnaneeya Adhyaya- i. Shuka- DhanyanamSamanya Gunah (Properties of various types of cereals) | II | 05 | 03 |

| | ii. iii. iv. v. vi. vii. | Shimbi- Dhanyananam Samanya Gunah (Properties of various types of Pulses) Mamsasya Samanya Gunah (Properties of meat of various animals) Shakayoh Samanya Gunah (Properties of various types of vegetables) Phalayoh Samanya Gunah (Properties of various types of Fruits) Kritanna varganam Samanya Gunah (Properties of various types of cooked food) Aushadhanam Samanya Gunah (Properties of various types of medicinal herbs) | | | |
|----|--|--|---|----|----|
| 8. | AH S i. iii. iiv. v. vi. vii. viii. | u.7. Annaraksha Adhyaya- Rajnikate- Vaidyasthiti (Important place of Vaidya in Kings palace) Savishanna Lakshanam (Properties of poisoned food) Savishanna Pariksha (Examination of food contaminated with poison) Savishanna-Lakshana- Aushadha (Signs of food poisoning and its treatment) Viruddha Aahar (Incompatible food and food practices) Satmikaran Krama (Method of adaptation of wholesome food habits and to taper unwholesome food habits) Aahar-Shayan-Abrahmacharya – Trayopasthambha (Three accessary pillars of Health) Recitation of important shlokas | Π | 04 | 03 |
| 9. | AH S i. ii. iii. iv. | u.8. Matrashitiya Adhyaya- AaharMatra (appropriate quantity of food) Heen-matra, ati-matra bhojan dosha (Demerits of excess and less quantity of food) Alasak, Visuchika (Etiopathogenesis and management principles of Vishuchika and Alasak) Apatarpan chikitsa | Π | 05 | 04 |

| v. vi. vii. viii. ix. | causes Bhojan-samyak yog (Ideal regimen and time for taking food) KukshiVibhag (Imaginary parts of the stomach) | | | |
|---|---|-----|----|----|
| i. ii. iii. iv. v. | Adhyaya- Dravya shreshthtva(Predominance of Dravya) Dravyasya panchbhautikatvam (Prevalence of Panchamahabhutas in dravyas) Panchbhautik dravyanaam guna(Characteristics of PanchabhautikDravyas) Principles of dravyas viz Veerya- Vipaka- Prabhava Recitation of important shlokas | Π | 04 | 04 |
| 11 AH i. ii. iii. iv. | Su.10. Rasabhediya Adhyaya- Shadrasanaam utpatti (Origin of Shadrasa) Shadrasa parichaya (Identity of Six Rasas) Shadrasa karma, guna, atiyoga lakshana (Functions, properties and presentation of excessive intake of Six Rasas.) Recitation of important shlokas | Π | 05 | 04 |
| 12 AH i. ii. iii. iv. v. vi. vi. vii. | Importance of dosha dhatu mala Dosha dhatu mala prakruta and vaikruta karma (normal and abnormal functions) Dosha dhatu mala ashraya- ashrayi bhava (relation between dosha and dhatus) Samanya chikitsa siddhanta for dosha dhatu mala vruddhi kshaya (treatment principles) | III | 08 | 05 |

| | viii. | Vriddhi-kshaya bheshaja | | | |
|----|---|--|-----|----|----|
| | ix. | Recitation of important shlokas | | | |
| | | | | | |
| 13 | AH Su i. ii. iii. iv. v. v. v. vi. | 1.12. Doshabhediya Adhyaya- Dosha and dosha bheda (Dosha and their types) Dosha chaya, prakopa, prasham karanani (Causes of dosha accumulation, aggregation and alleviation) Trividhakarana (three causative factors of disease) Trividha Roga marga (three pathways of disease) Aatura parikshbhaav (assessment methods) Recitation of important shlokas | III | 08 | 05 |
| 14 | AH Su i. ii. iii. iv. v. vi. vi. vii. | 1.13. Doshopakramaniya Adhyaya- Tridosha- upakrama (Treatment principles of vitiated doshas) Shuddha-ashuddha chikitsa lakshana (Accurate and inaccurate treatment) Dosha gati (movement of doshas inside the body) Concept of aama Dasha aushadha-kaala (ten types of times for administering medicines) Recitation of important shlokas Research Updates – Langhan : Fasting and autophagy induction – how cell recycle and renew theor content, a process called autophagy. | III | 07 | 06 |
| 15 | | 1.14. Dvividhopakramaniya Ihyaya- Concept of Langhan and Brihan therapies (Treatment procedures for making the body thin and for nourishment) Concept of Shodhan and shaman therapies (Purification and palliative treatments) Concept of Atistaulya and atikarshya (Obesity and emaciation) Recitation of important shlokas | III | 05 | 05 |

| ii. Gro | Shodhanadigana Sangraha ya- oups of dravyas according to cific action oups of dravyas according to major redient as well as action | III | | 02 | 04 |
|--|---|-----|----------|----|----|
| Charak San | nhita – Sutrasthan (1-12 Adhyaya): | | 50 marks | | |
| 17Ch S Sui.Ayuii.Aroiii.Arokaraiii.Trisiv.Detv.Ayuprayvi.Ayuprayvi.Ayuprayvi.Ayuprayvi.Ayuprayvi.Ayuprayvi.Ayuprayvi.Ayuprayvi.Ayuprayvi.Ayuprayvi.Ayuprayvi.Ayuprayvi.Ayuprayvi.Ayuxii.Tricjii.Tricjii.Sadxii.Ausxvi.Ausxvii.Bhiviii.Yukxix.Bhi | 1. Deerghanjiviteeya Adhyaya- urvedavataranam (Genealogy of urveda) ogsya chaturvarge pradhanam anam sutra Ayurveda ails of Shat padartha urvedasya lakshanam tatha yojan usho lakshanam paryayashcha nanyavisheshayorlakhanam landa adhinam trividho hetusamgrah adhinam ashraya tatha Arogasya anam nano lakshanam ails about Sharira and manas | 1 | | 07 | 02 |
| i. Shin Indi ii. Var iii. Vira Indi iv. Ast | 2. Apamarga Tanduliya Adhyaya- ro Virechana Dravya & Main ications nana Dravya & Main Indications echana Dravya & Main ications hapana Dravya & Main ications | Π | | 02 | 03 |

| 19 | v. Anuvasana Dravya & Main Indications vi. Ashtavimshathi Yavagu vii. Panchakarma Mahatwa & Vaidya Guna viii. Recitation of important shlokas | | | |
|----|--|---|----|----|
| 19 | i. Dwa Trimshath Churna Pradeha & Main Indications | Π | 01 | 03 |
| 20 | Adhyaya- i. Shadvirechan aashrya ii. Panchkashaya yoni iii. Panchvidh kashaya kalpana iv. Panch kashaya shatani | Π | 03 | 04 |
| 21 | Ch S Su 5. Matrashiteeya Adhyaya- i. MatravatAhara ii. Nature of Ahara (Guru, Laghu) iii. AharaMatra iv. MatravatAharaPhala v. AharaSevanaVidhana on the bases of its nature vi. Swasthavrutta vii. Anjana viii. Dhumapana ix. Nasya x. Dantadhavana xii. Gandusha xiii. Abyanga xiv. Parimarjana xv. VastraGandhaMalyadiDharana xvi. Shouchavidhi xvii. Kshoura Karma xvii. PadatraDharana xx. Important Shlokas for recitation xxi. Research Updates: Role of Dinacharya to maintain circadian rhythm Role of therapeutic message for cell rejuevination Mechanism of satiation and proper quantity of food (Sauhitya Matra) | Π | 03 | 05 |

| 22Ch S Su 6. Tasyashiteeya Adhyaya- i. Classification Samvastara ii. Visarga Kala iii. Adana kal;a iv. Shadrutuvivechana and Charya v. Hamsodaka vi. Saatmya vii. Important shlokas for recitation viii. Research Updates: What causes the season: Summer and winter solistice- Equinoxes- Rotation of earth around sun. | II | 04 | 04 |
|---|----|----|----|
| 23 Ch S Su 7. Naveganadharaniya Adhyaya- i. Adharneeya-Dharneeya vega lakshan, chikitsa ii. Vyayam (Details regarding exercise) iii. Ahita sevan evam varjya vidhi iv. Deha prakruti (Body constitution) v. Agantuja evam Pradnyaapradh janya vyadhi evam chikitsa vi. Impotant Shlokas for recitation vii. Research Updates: Corelation of genomic variation with the classification of Prakriti | П | 04 | 04 |
| 24Ch S Su 8.Indriyopakramaniya Adhyaya- i.i.Enumeration of Indriya, Dravya, Adhishthana, Artha, Buddhiii.Manas Lakshana iii.iii.Ekatvam of Manas iv.iv.Sattvikatva, Rajasatva and Tamasatva of Manasv.Indriya PanchaPanchaka vi.vi.Adhyatma Dravya Guna Sangraha vii.viii.Prakriti – Vikriti hetu ix.sadvrittaAnushthana x.Hetuchatushtaya xi.xii.Important Shlokas for Recitation xiii.xiii.Important Shlokas for Recitation xiii.xiii.Research updates: Mental health and gut microbiota. | Π | 04 | 03 |
| 25 Ch S Su 9. Khuddakachatushpada Adhyaya- i. Chikitsa Chatushpada ii. Roga-Arogya Lakshana | II | 03 | 03 |

| iii. iv. v. vi. vii. vii. ix. x. xi. | Chikitsa Lakshana Vaidya, Dravya (Bheshaja), Paricharaka, Aatura guna Vaidya pradhanatva Adnya chikitsak dosha Sadvaidya lakshana Vaidya kartavya Vaidya Vritti Recitation of important Shlokas Research Updates: Medical ethics-principles Soft Skill development for medical students Emotional Intelligence as a crucial component in medical edication | | | |
|---|---|-----|----|----|
| i. iii. iii. iv. v. vi. vii. vii. viii. | pratipaadana – (maitreya-krta) Its conclusion by Atreya Pareekshya-kaarino hi kusalaa bhavanthi Cikitsaa sootram Cikitsaayaam yasolaabhe kaaranam Asaadhyaroga-cikitsaayaam haani Further division of saadhya- asaadhyata Sukha-saadhya lakshanam Krcchra-saadhya lakshanam Yaapya lakshanam Pratyaakhyeya lakshanam Benefit of knowledge of prognosis The versatile usage of the term 'mithyaa-buddhi' | П | 03 | 03 |
| 27 Ch i. ii. iii. iv. v. v. vi. | S Su 11. Tisraishaniya Adhyaya- TrividhaEshana (Three Desires of life) Paralokaeshana Chaturvidhapariksha Punarjanma siddhi by Chaturvidhapramanas Trayopasthambha Trividhabala | III | 06 | 04 |

| viii. Atiyoga, Heenayoga and Mithya yoga of artha, karma and kaala | | | | |
|--|--------|-------------|-----------|---------------|
| of artha, karma and kaala | | | | |
| | | | | |
| ix. Trividharoga | | | | |
| x. Treatment for manasavyadhi | | | | |
| xi. Trividharogamarga | | | | |
| xii. Trividhavaidya | | | | |
| xiii. Trividhaoushadha | | | | |
| xiv. Ashtatrika | | | | |
| xv. Important Shloka for Recitation | | | | |
| | | | | |
| 28 Ch S Su 12. Vatakalakaliya Adhyaya- | | | | |
| i. Vata guna | | | | |
| ii. Views of various Acharyas on Vata | | | | |
| dosha Guna avum Karma | | | | |
| iii. Vayu prakop-prasham karan | | | | 05 + 15 (for |
| iv. Akupita, kupita vayu karma | III | | 04 | yearly |
| v. Vata Dosha – Clinical application | | | | competitions) |
| vi. Akupita-kupita pitta karma | | | | |
| vii. Akupita- kupita kapha karma | | | | |
| viii. Atreya's exploration on Tridosha | | | | |
| ix. Important shloka for recitation | | | | |
| • Note- In this column distribution of 130 activity | is giv | en. Remaini | ng 130 is | for Samhita |
| Pathan. | | | | |

Table 3: Learning objectives (Theory) of Course AyUG-SA1

| A3 Course outcome | B3 Learning Objective (At the end of the session, the students should be able to) | C3 Domain/s ub | D3 Must to know/ desirabl e to know/Ni ce to know | E3 Level Does/ Shows how/ Knows how/ Know | F3 T-L method | G3 Assessment | H3 Formati ve /summat ive | I3 Te rm | J3 Integra tion |
|-------------------------|---|---------------------------------|--|--|--------------------------------|------------------|---------------------------------------|----------------|-----------------------|
| <u>Topic 1- Ir</u> | ntroduction To Samhita | s: Time (Lectu | ure:-15 ; Non | lecture:-09 | hours) | | | | |
| CO1 | Explain the term Samhita | Cognitive/ Comprehe nsion | Must know | Knows | Lecture | Written or Viva | F & S | Ι | |
| CO1 | Identify Bruhatrayee | Cognitive/ Recall | Must know | Knows | Lecturer | Written or Viva | F & S | Ι | |
| CO1 | Discuss the various Samhitas and Commentaries in brief | Cognitive/ Comprehe nsion | Must know | Knows | Lecturer / Group Discussion | Written or Viva | F & S | Ι | |
| CO1 | Discuss the various preceptors, aut hours, redactors and commentators in brief | Cognitive/ Comprehe nsion | Must know | Knows | Lecturer | Written or Viva | F & S | Ι | |
| CO1 | Apply various Tantrayukties like Adhikaran, Yoga, Padarth, Uddesh, Nirdesh, Vaakyashesh, Prayojan, Upadesh, arthapatti, Ekant, | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | Formativ e | Ι | |

| | Anumat, Vyakhyan, Samshay, Atitavekshan, Anagatavekshan, Swasadnya, Samucchaya, Nidarshan, Nirvachan, Niyog. | | | | | | | | |
|-----|---|-------------------------------------|--------------|--------------|--------------------------------|---------------------------|------------------------------------|---|---|
| CO1 | Describe various Tantraguna | Cognitive/ Comprehe nsion | Must now | Knows how | Lecturer | Written or Viva | Formativ e and Summati ve | Ι | |
| CO1 | Describe various Tantradosha | Cognitive/ Comprehe nsion | Must know | Knows | Lecturer | Written or Viva | Formativ e and Summati ve | Ι | |
| CO1 | Describe rachanashaili (composition style) and bhashashaili (language style) of Samhitas | Cognitive/ Comprehe nsion | Must know | Knows | Lecturer / Discussion | Written or Viva | F & S | I | Ay urv ed Itih as |
| CO1 | Discuss about pattern (method) of writing of classical texts | Cognitive / Comprehe nsion | Must know | Knows | Lecturer | Puzzle | Formativ e | Ι | <u>Ay</u> <u>urv</u> <u>ed</u> <u>Itih</u> as |
| CO1 | State different types of styles of language of classical text | Cognitive/ Recall | Must know | Knows | Lecturer Audio-Visual aids | Viva | Formativ e and summati ve | Ι | |
| CO1 | Interpret Anubandha chatushtya with examples | Cognitive/ Problem solving | Must know | Knows how | Lecturer / Class discussion | Enquiry Based Learning | Formativ e | Ι | |

| CO1 | | Cognitive/ | | | Lecturer/ | Enquiry Based | Formativ | Ι |] |
|----------|--|----------------------------------|--------------|--------------|---------------------------------------|---------------------------------|------------------|---|---|
| | Interpret Ashta | Problem | Must | Knows | Demonstration | Learning | e | | |
| | Prashna with example | solving | know | how | | | | | |
| Topic 2- | Ashtang Hriday Samhita | Sutrasthan | Chapter-1- | Ayushkam | iya Adhyaya <u>: Time (Lec</u> | ture:- 08 ; Non lecture- | <u>03 hours)</u> | | |
| CO1 | Discuss the hierarchy of Ayurvedotpatti (descend of Ayurveda) | Cognitive /Recall | Must know | Know | Lecture | Written or Viva | F & S | I | |
| CO1 | Explain the significance of Ashtanga Hrudaya | Cognitive /Recall | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
| CO1 | Enlist the eight branches of Ayurveda | Cognitive/ Recall | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
| CO3 | Discuss the concept of dosha with respect to qualities (guna), location in body and time period (kaala) | Cognitive/ comprehe nsions | Must know | Knows how | Lecture and Group Discussion | Written & Viva | F & S | Ι | |
| CO3 | Discuss role and superiority of dosha in manifestation of diseases | Cognitive/ comprehe nsions | Must know | Knows how | Lecture/ Group discussion | Written & Viva | F & S | I | |
| CO3 | Identify the dosha sthanas | Cognitive/ comprehe nsions | Must know | Knows how | Discussion | Model Making (Working Model) | Formativ e | Ι | |
| CO3 | Enlist the saptadhatus and mala. | Cognitive/ Recall | Must know | Know | Lecture | Written & Viva | F & S | Ι | |
| CO4 | Explain the concept of Samsarga (combination of 2 dosha) & Sannipata | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture | Written & Viva | F & S | Ι | |

| | (combination of 3 dosha) | | | | | | | | |
|-----|---|---------------------------------|--------------|--------------|---|-----------------|-------|---|--|
| CO4 | Elucidate concept of Prakruti (body constitution) | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture/Discussion | Written & Viva | F & S | Ι | |
| CO6 | Explain the three types of digestive fire (agni) | Cognitive/ Comprehe nsion | Must know | know How | Lecture/Demonstratio n in healthy volunteers. | Written or Viva | F & S | I | |
| CO6 | Describe the three types of Koshtha | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture/Demonstratio n in healthy volunteers. | Written or Viva | F & S | I | |
| CO5 | Explain the effect of rasas on tridosha | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture/ Group discussion | Written & Viva | F & S | I | |
| CO5 | Describe the two types of potencies (Dwividha Virya) | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture/ Group discussion | Written & Viva | F & S | I | |
| CO5 | Describe the three types of Vipaka | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture/ Group discussion | Written & Viva | F & S | I | |
| CO5 | Explain the three types of dravya on the basis of Prabhav | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture/ Group discussion | Written & Viva | F & S | I | |
| CO5 | Explain the concept of Vruddhi &Kshaya (increase and decrease) | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture/ Group discussion | Written & Viva | F & S | I | |

| CO6 | Discuss the causative factors of health and disease | Cognitive/ comprehe nsions | Must know | Know how | Lecture/group discussion | Puzzle / Viva | Formativ e and summati ve | I | |
|-------------|---|---|--------------|--------------|-----------------------------|-----------------|------------------------------------|---|--|
| CO6 | Define health (aarogya) and disease stage(roga) | Cognitive/ Recall | Must know | Know | Lecture | Written & Viva | Formativ e and summati ve | I | |
| CO6 | Explain prakruta (normal) and vikruta (abnormal) conditions | Cognitive/ comprehe nsions | Must know | Knows how | Lecture | Written & Viva | Formativ e and summati ve | I | |
| CO6 | Explain the types of diseases (Roga) | Cognitive/ Comprehe nsion | Must know | knows How | Lecture | Written or Viva | F & S | Ι | |
| CO6 | Explain the concept of Roga Adhishthana (abode of diseases) | Cognitive/ Cognitive/ Comprehe nsion | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
| CO6 | Enumerate Manas dosha | Cognitive/ Recall | Must know | Knows how | Lecture | Written or Viva | F & S | I | |
| CO6, CO8 | Discuss the methods of assessment of patient | Cognitive/ Comprehe nsion | Must know | Knows How | Lecture | Written or Viva | F & S | Ι | |
| CO8 | Explain the methods of examination of disease | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture/OPD clinics | Written & Viva | F & S | I | |
| CO6 | Explain the three types of habitats(desha) | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture/Multimedia aids | Written or Viva | F & S | Ι | |

| CO6 | Explain the two types of Bheshaja Kala | Cognitive / Comprehe nsion | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
|-------------|--|-------------------------------------|-----------------|--------------|---|-----------------|-------|---|--|
| CO6 | Explain the Classification the treatment modules (Aushadha) | Cognitive / Comprehe nsion | Must know | Know How | Lecture | Written or Viva | F & S | I | |
| CO6 | Explain the treatment module for mental diseases (Mano Dosha Aushadham) | Cognitive / Comprehe nsion | Must know | Knows how | Lecture | Written or Viva | F & S | I | |
| CO6, CO8 | Elaborate chikitsa chatuspada (4 factors in treatment) | Cognitive /Compreh ension | Must know | Know How | Lecture/ Demonstration in hospital | Written or Viva | F & S | Ι | |
| CO6 | Explain the types of prognosis of disease | Cognitive/ Comprehe nsion | Must know | Know How | Lecture/ Demonstration on patients / Multimedia aids | Written or Viva | F & S | I | |
| CO6 | Explain Concept of anupakramaneeya Atura Lakshana | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
| CO1 | Enlist the chapters of Sutra Sthana | Cognitive/ Comprehe nsion | Must Know | Knows | Self-learning | Written or Viva | F & S | Ι | |
| CO1 | Enlist all Sthana and Adhyayas of Ashtang Hridaya and Uttara Tantra | Cognitive/ Recall | Nice to Know | Knows | Self-learning | Written or Viva | F & S | I | |
| CO2 | Recite the shloka from 1 to 35 | Cognitive/ Recall | Must Know | Show | Self-learning | Viva | F & S | Ι | |
| CO1 | Identify Adhikaran, Yoga, Padarth, Uddesh, | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | Ι | |

| | Anagatavekshan Tantrayukti in this chapter. | | | | | | | | |
|-----------------|---|---------------------------------|--------------------|--------------------|-------------------------------|---|-----------|---|--|
| <u>Topic -3</u> | <u>. </u> Ashtang Hriday Samhit | a Sutrasthar | n <u>Chapter-2</u> | <u>2-</u> Dinachai | rya Adhyaya <u>Time (Lect</u> | ure:- 05 Non lecture- (| 04 hours) | | |
| CO4 | Explain the need of waking up before sunrise | Cognitive/ Comprehe nsion | Must know | Know how | Lecture | Written & Viva | F & S | Ι | |
| CO4 | Explain the importance of Shaucha Vidhi | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture | Written & Viva | F & S | Ι | |
| CO4 | Explain the importance and contraindications of brushing (Dantadhavana) | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture/ Multimedia aids | Written & Viva | F & S | I | |
| CO4 | Identify the herbs used for Dantadhavan | Cognitive/ Applicatio n | Must know | Shows how | Herbal garden visit | Written or Viva Group Activity (For identifications of Currently using tooth paste. Herbal pastes. Types of pastes) | F & S | I | Dravya guna dept |
| CO4 | Distinguish Sauveeranjana and Rasanjan | Cognitive/ Comprehe nsion | Must know | Know how | Lecture/Demonstratio n | Written or Viva Debate (Students will search benefits and harms supported by current literature. Dabate in class) | F & S | I | Visit to Rasash astra dept for Identifi cation of drugs |

| CO4 | Discuss contraindications of betel leaf consumption (Tambula) | Cognitive/ Applicatio n | Must know | Know how | Lecture/ Debate on benefits and harms of Betel leaf consumtion. supported by current literature. | Written or Viva | F & S | Ι | |
|-----|---|---------------------------------|--------------|--------------|---|-----------------|-------|---|------------------------|
| CO4 | Elaborate the concept of Abhyanga along with contraindications | Cognitive/ Comprehe nsion | Must know | Know How | Lecture/ /Multimedia aids | Written & Viva | F & S | Ι | Panchk arma dept |
| CO4 | Discuss the importance, contraindications of exercise | Cognitive/ Applicatio n | Must know | Knows How | Lecture/ Multimedia aids | Written & Viva | F & S | Ι | |
| CO4 | Discuss the rules regarding exercise and adverse effects of excessive exercise | Cognitive/ Applicatio n | Must know | Knows how | Group Discussion Debate: Types of Exercise. e.g Arobiuc and anaerobic etc. supported by current literature discussions on Concept. | Written & Viva | F & S | Ι | |
| CO4 | Explain the benefits of powder massage (udvartan) | Cognitive/ Comprehe nsion | Must know | Know how | Lecture/demonstration ECE | Written & Viva | F & S | Ι | Panchk arma dept |
| CO4 | Elucidate the benefits and contraindications of bathing (snana) | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture/group discussion Literature search and Discussion by students. | Written & Viva | F & S | Ι | |
| CO4 | Explain the time of having food. | Cognitive/ Comprehe nsion | Must know | Know how | Lecture | Written or Viva | F & S | Ι | |
| CO4 | Explain rules regarding natural | Cognitive/ Comprehe | Must know | Know how | Lecture | Written or Viva | F & S | Ι | |

| | urges. | nsion | | | | | | | |
|-------------|---|---------------------------------|--------------|--------------|--|-----------------|-------|---|--|
| CO4 | Explain the importance of righteousness (Dharmapalan) | Cognitive/ Comprehe nsion | Must know | Know how | Flipped Classroom Group Activity: self identification of Mistake they are doing Plan to rectify and reassessment after duration.(6 months) | Written or Viva | F & S | I | |
| CO4 | Enumerate the types of bad deeds(Dasha Vidha Papakarma) | Cognitive/ Recall | Must know | Know How | Flipped Classroom | Written or Viva | F & S | I | |
| CO4, CO8 | Explain the concept of good principles and conduct (Sadvrutta) | Cognitive | Must know | Knows how | Flipped Classroom | Written or Viva | F & S | Ι | |
| CO4 | Explain the principles of personal hygiene (shuddhi) | Cognitive/ Comprehe nsion | Must know | Knows how | Flipped Classroom | Written or Viva | F & S | I | |
| CO2 | Recite the shlokas from 1 to 48 | Cognitive/ Recall | Must know | Show | Self-learning | MCQ/viva/quiz | F & S | Ι | |
| CO8 | Assess and observe the Dincharya Priciples. | Skill | Must know | Does | Proforma based assessment in healthy volunteers/ patients. | Work book- Viva | F & S | Ι | |
| CO8 | Justify the importance of Dincharya | Cognitive/ Applicatio n | Must know | Does | Application of Principles in own life | Viva | F & S | I | |
| CO1 | Identify Upadesh, Ekant, Prayojan Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | I | |

| <u>Topic – a</u> | 4 <u>. A</u> shtang Hriday Samhi | ta – Sutrasth | an Chapt | er 3- Rutuc | arya Adhyaya- <u>Time (Lec</u> | cture:- 05; Non lectur | re 04 hours) | | |
|------------------|--|---------------------------------|--------------|--------------|--|------------------------|--------------|---|--|
| CO4 | Explain the six seasons and the months in which they fall | Cognitive/ Comprehe nsion | Must know | Knows | Lecture/group discussions/Multimedi a aids | Written & Viva | F & S | I | |
| CO4 | Elicudate the status of strength (bala) in Uttarayana and Dakshinayana | Cognitive/ Recall | Must know | Knows How | Lecture/group discussions/Multimedi a aids | Written & Viva | F & S | Ι | |
| CO4 | Explain the relation between strength (bala)& seasons | Cognitive/ Comprehe nsion | Must know | Knows How | Lecture | Written & Viva | F & S | Ι | |
| CO4 | Discuss the climatic conditions, health status(bala, agni, dosha), appropriate food and regimen for Hemant rutu. | Cognitive/ Applicatio n | Must know | Knows How | Lecture/group discussions/Multimedi a aids | Written or Viva | F & S | I | |
| CO4 | Discuss the climatic conditions, health status (bala, agni, dosha), appropriate food and regimen for Shishira rutu. | Cognitive/ Applicatio n | Must know | Knows How | Lecture/group discussions/Multimedi a aids | Written & Viva | F & S | I | |
| CO4 | Discuss the climatic conditions, health status (bala, agni, dosha), appropriate food and regimen for Shishira rutu. | Cognitive/ Applicatio n | Must know | Knows How | Lecture/group discussions/Multimedi a aids | Written or Viva | F & S | I | |
| | Discuss the climatic conditions, health status (bala, agni, | Cognitive/ Applicatio n | Must know | Knows How | Lecture/group discussions/Multimedi a aids | Written & Viva | F & S | Ι | |

| | dosha), appropriate food and regimen for Greeshma rutu. | | | | | | | | |
|-----|--|---------------------------------|--------------|--------------|--|-------------------|-------|---|--|
| CO4 | Discuss the climatic conditions, health status (bala, agni, dosha), appropriate food and regimen for Varsha rutu. | Cognitive/ Applicatio n | Must know | Knows How | Lecture/group discussions/Multimedi a aids | Written & Viva | F & S | Ι | |
| CO4 | Discuss the climatic conditions, health status (bala, agni, dosha), appropriate food and regimen for Sharad rutu. | Cognitive/ Applicatio n | Must know | Knows How | Lecture/group discussions/Multimedi a aids | Written & Viva | F & S | Ι | |
| CO8 | Justify the importance of Rutucharya | Affective | Must Know | Does | Group discussions | Viva | F & S | Ι | |
| CO4 | Describe the special instructions pertaining diet (rasa, guna) and seasons | Cognitive/ Comprehe nsion | Must know | Knows How | Lecture/group discussions/Multimedi a aids | Written & Viva | F & S | I | |
| CO4 | Identify the significance of Rutusandhi | Cognitive/ Comprehe nsion | Must know | Knows How | Lecture | Written or Viva | F & S | Ι | |
| CO2 | Recite the shloks - 1 to 6, 55-58 | Cognitive/ Recall | Must Know | Show | Self learning | Written/viva/quiz | F & S | Ι | |
| CO4 | Apply the Principles of Rutucharya in practice | Skill | Must Know | Does | Proforma based assessment of healthy individuals or patients | Viva | F & S | Ι | |
| CO1 | Identify Prayojan, Swasdnya, Apadesh Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | Ι | |

| Topic -5 | Ashtang Hriday Samhita | n – Sutrastha | n- Chapte | er 4. Roganı | Itpadaniya Adhya | yaTime (Lecture:- 05; Non | lecture 04 ł | nours) |
|----------|---|----------------------|--------------|--------------|------------------|---------------------------|--------------|--------|
| CO6 | Enlist the adharaneeya vega (natural urges not to be suppressed by force) | Cognitive/ Recall | Must know | Knows How | Lecture | Written & Viva | F & S | I |
| CO6 | Specify the diseases due to suppression of adhovata (flatus) and its treatment | Cognitive/ Recall | Must know | Knows How | Lecture | Written & Viva | F & S | I |
| CO6 | Specify the diseases due to suppression of purisha (fecal matter/ defecation) and its treatment | Cognitive/ Recall | Must know | Knows How | Lecture | Written & Viva | F & S | I |
| CO6 | Specify the diseases due to suppression of mootra (urine) and its treatment | Cognitive/ Recall | Must know | Knows How | Lecture | Written & Viva | F & S | I |
| CO6 | Specify the diseases due to suppression of udgaar (belching) and its treatment | Cognitive/ Recall | Must know | Knows How | Lecture | Written & Viva | F & S | I |
| CO6 | Specify the diseases due to suppression of kshvathu (sneezing) and its treatment | Cognitive/ Recall | Must know | Knows How | Lecture | Written & Viva | F & S | Ι |
| CO6 | Specify the diseases due to suppression of trushna (thirst) and its treatment | Cognitive/ Recall | Must know | Knows How | Lecture | Written & Viva | F & S | I |

| CO6 | Specify the diseases due to suppression of kshudha (hunger) and its treatment | Cognitive/ Recall | Must know | Knows How | Lecture | Written/viva | F & S | Ι | |
|-----|--|----------------------|--------------|--------------|---------|----------------|-------|---|--|
| CO6 | Specify the diseases due to suppression of nidra (sleep) and its treatment | Cognitive/ Recall | Must know | Knows How | Lecture | Written & Viva | F & S | I | |
| CO6 | Specify the diseases due to suppression of kaasa (cough) and its treatment | Cognitive/ Recall | Must know | Knows | Lecture | Written & Viva | F & S | Ι | |
| CO6 | Enumerate the diseases due to suppression of shrama shwasa and its treatment | Cognitive/ Recall | Must know | Knows | Lecture | Written & Viva | F & S | I | |
| CO6 | Specify the diseases due to suppression of jrumbha (yawning) and its treatment | Cognitive/ Recall | Must know | Knows | Lecture | Written & Viva | F & S | I | |
| CO6 | Specify the diseases due to suppression of ashru (tears) and its treatment | Cognitive/ Recall | Must know | Knows | Lecture | Written & Viva | F & S | I | |
| CO6 | Specify the diseases due to suppression of vaman(vomiting) and its treatment | Cognitive/ Recall | Must know | Knows How | Lecture | Written & Viva | F & S | I | |
| CO6 | Specify the diseases due to suppression of shukra (semen) and its treatment | Cognitive/ Recall | Must know | Knows How | Lecture | Written & Viva | F & S | I | |

| CO6 | Describe the incurable condition of Vegadharan | Cognitive/ Comprehe nsion | Must know | Knows How | Lecture | Written or Viva | F & S | Ι | |
|-----|--|---------------------------------|--------------|--------------|------------------------------|---|-------|---|--|
| CO6 | Explain vegdharan as the root cause for many diseases and its common treatment | Cognitive/ Comprehe nsion | Must know | Knows How | Lecture | Written & Viva | F & S | Ι | |
| CO6 | Explain the dharaneeya vega (urges to be controlled) | Cognitive/ Comprehe nsion | Must know | Knows How | Lecture/ Group discussion | Written or Viva | F & S | Ι | |
| CO8 | Justify the importance of adharneeya and dharneeya vega to maintain health | Cognitive/ Applicatio n | Must know | Does | Group discussions | Group discussions/ Class activities | F & S | Ι | |
| CO6 | Explain importance of Shodhana chikitsa (purification techniques) | Cognitive/ Comprehe nsion | Must know | Knows How | Lecture | Written & Viva | F & S | Ι | |
| CO6 | Explain the importance of Brumhana after Shodhana chikitsa | Cognitive/ Comprehe nsion | Must know | Knows How | Lecture | Written & Viva | F & S | Ι | |
| CO6 | Explain the concept of Aagantu roga (traumatic diseases) and its treatment | Cognitive/ Comprehe nsion | Must know | Knows How | Lecture | Written or Viva | F & S | Ι | |
| CO6 | Discuss the concept of rutu-shodhana (elimination of doshas according to seasons) | Cognitive/ Applicatio n | Must know | Knows How | Lecture/Group Discussion | Written & Viva | F & S | Ι | |

| CO6 CO8 | Describe the importance of healthy diet and regimen. | Cognitive/ Comprehe nsion | Must know | Knows How | Lecture/Group discussion | Written & Viva | F & S | I |
|-------------|---|---------------------------------|--------------|--------------|---|---------------------------------------|---------------|---|
| CO6 | Comply with health rules regarding vegdharan and hita- aahar-vihar. | Cognitive/ Comprehe nsion | Must know | Shows | | Group discussion/ Class activities | F & S | Ι |
| CO2 | Recite the shlokas from number 1 to 22, 24-31, 35 | Cognitive/ Recall | Must know | Show | Self-learning | Written/viva/quiz | F & S | Ι |
| CO3, CO6 | Assess the sign and symptoms caused due to suppression of Adharaneeya Vegas. | Skill | Must Know | Show how | Proforma based assessment in healthy volunteers/patients. | Problem based assessment | Formativ e | Ι |
| CO1 | Identify Uddesh, Nirdesh, Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | Ι |

Topic -6 Ashtang Hriday Samhita – Sutrasthan- Chapter 05 Dravadravya Vijnaniya Adhyaya--Time (Lecture: - 05; Non lecture 04 hours)

| CO5 | Differentiate between Gangambu (rain water) and Samudrambu (sea water) | Cognitive/ Comprehe nsion | Desirable | Knows | Lecture discussion | Written or Viva | Formative | Ι | |
|-----|--|---------------------------------|-----------------|--------------|-----------------------|-----------------|-----------|---|--|
| CO5 | Describe attributes of water from different sources | Cognitive/ Comprehe nsion | Nice to know | Knows | Lecture discussion | Written or Viva | Formative | Ι | |
| CO5 | Explain the utilities of different states of water (avoiding of drinking water, hot water (ushnambu), cold water | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture discussion | Written or Viva | F & S | I | |

| | (sheetambu), Boiled and cold water (kwathita- sheetambu) | | | | | | | | |
|-----|--|---------------------------------|-----------------|--------------|-----------------------|-----------------|-----------|---|--|
| CO5 | Write the qualities of Narikelodakam (coconut water) | Cognitive/ Recall | Must know | Knows | Discussion | Written or Viva | F & S | Ι | |
| CO5 | Discuss the properties of ksheeram (milk), Dadhi (curd), Takra (mastu), navaneetam (white butter), Ghritam | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture discussion | Written or Viva | F & S | I | |
| CO5 | List Properties of milk (ksheeras) of different sources. | Cognitive/ Recall | Nice to know | Knows | Lecture | Written or Viva | Formative | Ι | |
| CO5 | Differentiate the properties of ama (unboiled)and shruta (boiled) ksheeram (milk) | Cognitive/ Comprehe nsion | Must know | Knows | Lecture | Written or Viva | F & S | Ι | |
| CO5 | Explain the rules for curd consumption | Cognitive/ Comprehe nsion | Must know | Know how | Lecture discussion | Written or Viva | F & S | Ι | |
| CO5 | Write the properties of various milk preparations | Cognitive/ Recall | Nice to know | Know | Lecture discussion | Written or Viva | Formative | Ι | |
| CO5 | Identify the properties and uses of sugarcane and its products | Cognitive/ Recall | Nice to know | Know | Lecture discussion | Written or Viva | F & S | Ι | |
| CO5 | Enlist the properties of honey and Identify the various guidelines related to use of honey | Cognitive/ Recall | Must know | Knows how | Lecture discussion | Written or Viva | F & S | Ι | |
| CO5 | Write the properties of tilatailam (Sesame oil) | Cognitive/ Recall | Must know | Know | Lecture discussion | Written or Viva | F & S | Ι | |

| CO5 | Identify the characteristics of different oils | Cognitive/ Comprehe nsion | Nice to know | Know | Lecture discussion | Written or Viva | Formative | Ι | |
|--------------|---|---------------------------------|-------------------|--------------|----------------------------------|---------------------------|--------------------|---------------|----------------|
| CO5 | Classify various types of madyas (wines) | Cognitive/ Comprehe nsion | Nice to know | Know | Lecture discussion | Written or Viva | Formative | I | |
| | explain the properties of Shukta, Dhanyamlam, sauveeraka, tushodaka etc., | Cognitive/ Comprehe nsion | Nice to know | Know | Lecture discussion | Written or Viva | Formative | Ι | |
| CO5 | Describe the properties and uses of various types of urine | Cognitive/ Comprehe nsion | Nice to know | Know | Lecture discussion | Written or Viva | Formative | I | |
| CO2 | Recite the shlokas- 1,16- 17, 20,29-32, 51,52,56 | Cognitive/ Recall | Must know | Show | Self- learning | Written or Viva | F & S | Ι | |
| CO5 | Classify some common dravyas like milk, ghee, sugar, jaggery etc according to their varga (group) and qualities | Skill | Must know | Show how | class Discussion | Viva/ class activities | F & S | Ι | |
| CO1 | Identify Vaakyashesh, Samucchaya, Yog Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | Ι | |
| <u>Topic</u> | -7 Ashtang Hriday Samhita | – Sutrastha | n- Chapter | 6. Annasv | varoopa Vijnar | eeya Adhyaya- <u>Tim</u> | e (Lecture:- 05; N | Ion lecture (| 03 hours) |
| CO5 | To classify the shukadhanya (cereals) | Cognitive/ Recall | Must know | Know | Lecture | Written or Viva | F & S | II | Dravyagu na |
| CO5 | Enumerate the qualities of each shukadhanya (cereals) | Cognitive/ Recall | Desire to know | Know | Lecture | Written or Viva | Formative | II | Dravyagu na |
| CO5 | Classify the shimbidhanya (pulses) | Cognitive/ Recall | Must know | Know | Lecture | Written or Viva | F & S | II | Dravyagu na |

| CO5 | Enumerate the qualities of each shimbi dhanya (pulses) | Cognitive/ Recall | Desire to know | Know | Lecture discussion | Written or Viva | Formative | Π | Dravyagu na |
|-------|---|---------------------------------|-------------------|--------------|----------------------------------|---------------------|-------------------------|-----|-----------------------|
| CO5 | Enumerate the qualities of various types of mamsa (meat) | Cognitive/ Recall | Nice to know | Knows | Lecture discussion | Written or Viva | Formative | II | |
| CO5 | Enumerate the qualities of various types of shaka | Cognitive/ Recall | Must know | Knows | Lecture discussion | Written or Viva | Formative and summative | II | Dravyagu na |
| CO5 | Enumerate the qualities of various types of fruits | Cognitive/ Recall | Desire to know | Knows | Lecture discussion | Written or Viva | Formative | Π | Dravyagu na |
| CO5 | Enumerate the qualities of various types of krtannavarga (cooked food) | Cognitive/ Recall | Must to know | Know | Lecture discussion | Written or Viva | Formative and summative | II | Bhaishajy akalpana |
| CO5 | Enumerate the qualities of various types of medicinal dravyas (herbs) | Cognitive/ Recall | Must know | Knows | Lecture discussion | Written or Viva | F & S | ΙΙ | Dravyagu na |
| CO5 | Classify certain common dravyas according to varga and functions | Skill | Must know | Show how | Group activities | Viva | F & S | Π | |
| CO1 | Identify Samucchaya, Prayojan, Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | II | |
| Topic | <u>-8 Ashtang Hriday Samhita</u> | – Sutrastha | n- Chapter | 7. Annara | ksha Adhyaya- | Time (Lecture:- 04; | Non lecture 03 hou | rs) | |
| CO8 | Describe the role of Rajavaidya (Noble Physiian) | Cognitive/ Comprehe nsion | Nice to know | Know | Discussion | Written or Viva | Formative | ΙΙ | |

| CO6 | Identify the characteristics adulterated food stuffs | Cognitive/ Comprehe nsion | Nice to know | Knows | Discussion | Written or Viva | Formative | II | Agadatant ra |
|-----|--|---------------------------------|-------------------|--------------|----------------------------------|------------------|-----------|----|-----------------|
| CO6 | Describe the symptoms caused by poisoned or adulterated food | Cognitive/ Comprehe nsion | Desire to know | Know | Discussion | Written or Viva | Formative | II | Agadatant ra |
| CO6 | Discuss the treatment module for poisoning | Cognitive/ Comprehe nsion | Desire to know | Know how | Discussion | Written or Viva | Formative | Π | Agadatant ra |
| CO6 | Define virudhahara (incompatible foods) with examples | Cognitive/ Recall | Must know | Know | Lecture discussion | Written & Viva | F & S | II | |
| CO6 | Discuss the treatment methods for virudhahara (incompatible foods) | Cognitive/ Comprehe nsion | Must know | Know how | Lecture discussion | Written & Viva | F & S | II | |
| CO6 | Follow the principles regarding viruddh aahar | Cognitive/ Applicatio n | Must know | Know how | Discussion | Class Activities | Formative | II | |
| CO4 | Explain the process of satmikaran (accustomization) | Cognitive/ Comprehe nsion | Must know | Know how | Lecture discussion | Written & Viva | F & S | II | |
| CO4 | Explain the three accessory pillars of life (diet, sleep and non- celibacy) | Cognitive/ Comprehe nsion | Must know | Know how | Lecture discussion | Written & Viva | Formative | II | |
| CO4 | Explicate the significance of judicious sleep | Cognitive/ Comprehe nsion | Must know | Know how | Discussion | Written & Viva | F & S | Π | |
| CO2 | Recite the shloka- 45, 48, 50, 53-55 | Cognitive/ Recall | Must know | Shows | Self- learning | Written or Viva | F & S | II | |
| CO1 | Identify Nidarshan, Samucchay, Prayojan, | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | II | |

| | swasadnya Tantrayukties in this chapter. | | | | | | | | |
|-----------------|---|---------------------------------|--------------|------------------|---------------------|--------------------------------------|----------------|--------|--|
| <u>Topic</u> | <u>-9</u> Ashtang Hriday Samhita | – Sutrastha | n- Chapter | 8. Annara | ksha Adhyaya- | - <u>Time (Lecture:- 05 ;</u> | Non lecture 04 | hours) | |
| CO4 | Explain the importance of matra (proper quantity of food) for maintenance of health | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture | Written or Viva | F & S | Ш | |
| CO4 | Describe how to quantify food | Cognitive/ Comprehe nsion | Must know | Knows | Lecture | Written or Viva | F & S | Π | |
| CO4 | Determine the adverse effects of heena matra (inadequate quantity of food) and atimatra (excess quantity of food) ahara | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture | Written or Viva | F & S | II | |
| CO6 | Discuss the etiopathogenesis, symptoms and treatment principles of Alasaka and Visuchika. | Cognitive/ Applicatio n | Must know | Knows how | Lecture/PB L | Written or Viva | F & S | II | |
| CO6 | Classify between various types of Apatarpan therapies | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture | Written or Viva | F & S | II | |
| CO6 | Classify various types of ajeerna | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture | Written or Viva | F & S | II | |
| CO6 , CO4 | Enlist unwholesome food items | Cognitive/ Recall | Must know | Knows | Group discussion | Written or Viva | F & S | II | |
| CO4 | Identify various unhealthy food habits | Cognitive/ Comprehe nsion | Must know | Knows | Group discussion | Written or Viva | F & S | П | |

| CO4 | Recommend ideal regimen for consumption of food (aaharvidhi) | Cognitive/ Comprehe nsion | Must know | Knows how | Discussion | Written or Viva | F & S | Π |
|-----|---|---------------------------------|----------------|--------------|---------------------------------------|----------------------------|------------------------|----|
| CO4 | Differentiate between the food items recommended and non-recommended for daily use | Cognitive/ Comprehe nsion | Must know | Knows | Lecture Group Activity. | Written or Viva | F & S | Ш |
| CO4 | Advise the right order of food items in a meal | Cognitive/ Applicatio n | Must know | Does | Discussion/ activities | Viva/ proforma activity | F & S | Π |
| CO4 | Select anupanas (after drink) based on ahara and aushadha | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture/Dis cussion | Written or Viva | F & S | II |
| CO4 | Identify the conditions where Anupan is contraindicated | Cognitive/ Comprehe nsion | Desire to know | Knows | Lecture/Dis cussion | Written or Viva | F & S | Π |
| CO4 | Advise the right time of food consumption (Aahar Kala) | Cognitive/ Applicatio n | Must know | Shows | Lecture/Dis cussion/acti vities | Written or Viva | F & S | П |
| CO2 | Recite the shlokas-1-3, 6,7, 17, 19, 20,21, 25-30, 33-34 | Cognitive/ Recall | Must know | Shows | Self - learning | Written or Viva | F & S | П |
| CO4 | Justify the various principles of diet regarding quantity and time | Cognitive/ Applicatio n | Must know | Does | Discussion/ activities | Viva/activities | Formaive/Sum mative | Ш |
| CO1 | Identify Prayojan, Upadesh, Padartha, Yog, Swasdnya Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | II |

| CO5 | Justify the predominance of Dravya | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture | Written or Viva | F & S | II | |
|-----|---|---------------------------------|--------------|--------------|---------|-----------------|-------|----|---|
| CO5 | Elaborate the prevalence of Panchamahabhutas in Dravyas | Cognitive/ Comprehe nsion | Must know | Knows how | | Written or Viva | F & S | II | |
| CO5 | Differentiate between Rasa and Anurasa (primary taste and secondary taste) | Cognitive/ Comprehe nsion | Must know | Knows | Lecture | Written or Viva | F & S | II | |
| CO5 | Analyse the characteristics of Panchabhautik dravyas | Cognitive/ Applicatio n | Must know | Shows | Lecture | Written or Viva | F & S | II | |
| CO5 | Recognise the aushadatva (medicinal value) of all substances | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture | Written or Viva | F & S | Π | |
| CO5 | Demonstrate the importance of Panchabhautikdravyas in restoration and continuation of health. | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture | Written or Viva | F & S | II | |
| CO5 | Explain the importance of Mahabhutas and drug action | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture | Written or Viva | F & S | II | |
| CO5 | Define Veerya and Vipaka | Cognitive/ Recall | Must know | Knows | Lecture | Written or Viva | F & S | II | |
| CO5 | Discuss the types and the various opinions related with Veerya. | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture | Written or Viva | F & S | II | _ |
| CO5 | Explain Vipaka and its types. | Cognitive/ Comprehe nsion | Must know | Knows | Lecture | Written or Viva | F & S | II | |

| CO5 | Discuss the hierarchy of active principles of Dravya (matter) | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture | Written or Viva | F & S | II | |
|--------------|--|---------------------------------|--------------|-------------------|-----------------------------------|------------------------------|---------------------------|--------|----------------|
| CO5 | Define Prabhava | Cognitive/ Recall | Must know | Knows | Lecture | Written or Viva | F & S | II | |
| CO5 | Recall the exemplified functions of various active principles | Cognitive/ Recall | Must know | Knows | Lecture | Written or Viva | F & S | II | |
| CO5 | Describe the Saman pratyayarabdha and Vichitra-pratya- arabdha Dravyas. | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture | Written or Viva | F & S | II | |
| CO2 | Recite the shlokas – 1,2,3, 4,10, 12, 13, 20,26,27,28 | Cognitive/ Recall | Must know | Knows | Self- learning | Written , Viva/quiz | F & S | Π | |
| CO1 | Identify Swasdnya, Nirvachan Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | Π | |
| Topic | <u>-11</u> Ashtang Hriday Samhit | a – Sutrasth | an- Chapte | r 10. Rasa | bhediya Adhya | ya- <u>Time (Lecture:- 0</u> | 5; Non lecture 04 | hours) | |
| CO2 | Describe the formation of rasa from mahabhoota | Cognitive/ Comprehe nsion | Must know | Know | Lecturer Audio- Visual aids | Written or Viva | Formative or Summative | П | Dravyagu na |
| CO2 | Identify the examples and exceptions of the six rasa | Cognitive/ Comprehe nsion | Must know | Know | Lecturer Audio- Visual aids | Written or Viva | Formative or Summative | Π | Dravyagu na |
| CO2 | Explain the features of six rasa with examples and exceptions | Cognitive/ Comprehe nsion | Must know | Knows how | Lecturer Audio- Visual aids | Written or Viva | Formative or Summative | Π | |
| CO2 | Explain the functions of six rasa | Cognitive/ Comprehe nsion | Must know | Knows how | Lecturer Audio- Visual aids | Written or Viva | Formative or Summative | II | |

| CO2 | Describe the symptoms due to excess use (atiyog) of the six rasa | Cognitive/ Comprehe nsion | Must know | Knows how | Lecturer Audio- Visual aids | Written or Viva | Formative or Summative | II | |
|---------|--|---------------------------------|-----------------|-------------------|---|---------------------------|---------------------------|-------------|----------------|
| CO2 | Analyze the tartamatva of rasas (hierarchy of rasa on the basis of characteristics) | Cognitive/ Applicatio n | Must know | Knows how | Lecturer Audio- Visual aids | Written or Viva | Formative or Summative | II | Dravyagu na |
| CO2 | Enlist the 63 types of permutation and combination of rasa | Cognitive/ Recall | Nice to know | Know how | Lecturer Audio- Visual aids | Written or Viva | F & S | Π | Dravyagu na |
| CO2 | Classify the dravyas according to the rasa skand (group) | Skill | Must know | Know how | Discussion/ activities based proformas | Viva/Activities | F & S | II | |
| CO2 | Recite the shloks-1-21, 33-38 | Cognitive/ Recall | Must know | Knows | Self- learning | Written or Viva | F & S | II | |
| CO1 | Identify Uddesh, Nirdesh, Apavarga Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | II | |
| Topic - | - <u>12</u> Ashtang Hriday Samhit | a – Sutrasth | an- Chapte | r 11. Dosh | adi Vijnaniya A | Adhyaya- <u>Time (Lec</u> | ture:- 08; Non lect | ure 05 hour | <u>'s)</u> |
| CO3 | Discuss the importance of dosha dhatu mala | Cognitive/ Applicatio n | Must know | Know how | Lecturer Audio- Visual aids | Written & Viva | Formative or Summative | III | |
| CO3 | Explain dosha dhatu mala prakruta karma (normal functions) | Cognitive/ Comprehe nsion | Must know | Knows how | Lecturer Audio- Visual aids | Written & Viva | Formative or Summative | III | |

| CO3 | Identify the normal functions of dosha, dhatu | Skill | Must know | Show How | Activity based | Viva/ through various Activities | Formative or Summative | III | |
|-----|--|---------------------------------|--------------|--------------|-----------------------------------|-------------------------------------|---------------------------|-----|--|
| | and mala | | | | proformas | | | | |
| CO3 | Explain dosha dhatu mala vaikruta (vruddha and ksheena) karma (abnormal functions) | Cognitive/ Comprehe nsion | Must know | Knows how | Lecturer Audio- Visual aids | Written & Viva | Formative or Summative | III | |
| CO3 | Identify the effects due to vruddhi (increase) or kshaya (decrease) of dosha,dhatu and mala | Skill | Must know | Show How | Activity based proformas | Viva/ through various Activities | Formative or Summative | Ш | |
| CO3 | Explain the relation between dosha and dhatu. | Cognitive/ Comprehe nsion | Must know | Know how | Lecturer Audio- Visual aids | Written & Viva | Formative or Summative | III | |
| CO5 | Explain the treatment principles for vitiated dosha, dhatu and mala | Cognitive/ Comprehe nsion | Must know | Know how | Lecturer Audio- Visual aids | Written & Viva | Formative or Summative | III | |
| CO3 | Elucidate the concept of agni | Cognitive/ Comprehe nsion | Must know | Know how | Lecturer Audio- Visual aids | Written & Viva | Formative or Summative | III | |
| CO3 | Discuss Superiority of Jatharagni | Cognitive/ Applicatio n | Must know | Know how | Lecture, Discussion | Written & Viva | Formative or Summative | III | |
| CO3 | Assess the status of Agni. | Skill | Must know | Shows | Activities | Viva/Activites | Formative or Summative | III | |
| CO6 | Explain the general pathophysiology for origin of Diseases | Cognitive/ Comprehe nsion | Must know | Know how | Lecturer Audio- Visual aids | Written or Viva | Formative or Summative | III | |

| CO3 CO6 | Explain the concept of Ojas | Cognitive/ Comprehe nsion | Must know | Know how | Lecture, Discussion | Written or Viva | Formative or Summative | III |
|--------------|--|---------------------------------|--------------|-------------------|-----------------------------------|-----------------------------|---------------------------|-----------|
| CO3 CO6 | Explain aetiological factors for Ojakshaya | Cognitive/ Comprehe nsion | Must know | Know how | Lecturer | Written or Viva | Formative or Summative | III |
| CO3 CO6 | Explain Ojakshaya Lakshana | Cognitive/ Comprehe nsion | Must know | Know how | Lecture, Discussion | Written or Viva | Formative or Summative | III |
| CO3 CO6 | Identify Ojakshaya Lakshana | Skill | Must know | Show how | Lecturer Audio- Visual aids | Viva/activities | Formative or Summative | III |
| CO5 | Discussgeneral diet principles for vriddhi and kshaya (vitiatied doshas) | Cognitive/ Applicatio n | Must know | Show How | Activity based proformas | Viva/ planned activities | Formative or Summative | III |
| CO2 | Recite shlokas from 1 to 45 | Cognitive | Must Know | Knows | Self- learning | Written or Viva | Formative or Summative | III |
| CO1 | Identify Samucchaya, Adhikaran, Vakyashesh Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | III |
| Topic | <u>-13 Ashtang Hriday Samhit</u> | a – Sutrasth | an- Chapte | r 12. Dosh | abhediya Adhy | aya- Time (Lecture: | - 08; Non lecture |)5 hours) |
| CO3 | Enumerate the seats of vata, pitta and kapha doshas | Cognitive/ Recall | Must know | Knows | Lecturer Audio- Visual aids | Written or Viva | Formative or Summative | III |
| CO3 | Enlist types of vata, pitta and kapha dosha. | Cognitive/ Recall | Must know | Knows | Lecturer Audio- Visual aids | Written or Viva | Formative or Summative | III |
| CO3 | Describe the specific seats and functions of types of vata, pitta and kapha doshas. | Cognitive/ Recall | Must know | Knows | Lecturer Audio- Visual aids | Written or Viva | Formative or Summative | III |

| CO3 | Discuss the importance of types of vata, pitta and kapha doshas. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer Audio- Visual aids | Written or Viva | Formative or Summative | III | |
|-----|---|---------------------------------|--------------|--------------|---|-----------------|---------------------------|-----|--|
| CO3 | Identify the different types of dosha according to location and functions | Skill | Must know | Knows how | Proforma based activities | Written or Viva | Formative or Summative | III | |
| CO3 | Elucidate the concept of Chaya (accumulation), Prakopa (aggravation) and Prashama (alleviation) of vata, pitta and kapha doshas. | Cognitive/ Comprehe nsion | Must know | Knows how | Lecturer Audio- Visual aids | Written or Viva | Formative or Summative | Ш | |
| CO3 | Discuss the impact of seasonal variation in accumulation and aggravation of vata, pitta and kapha doshas. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer Audio- Visual aids/Discuss ion | Written or Viva | Formative or Summative | Ш | |
| CO3 | Discuss the superiority of dosha in manifestation of diseases | Cognitive/ Applicatio n | Must know | Know how | Lecturer Audio- Visual aids/Discuss ion | Written or Viva | Formative or Summative | III | |
| CO3 | Identify general aetiological factors responsible for manifestation of diseases | Cognitive/ Applicatio n | Must know | Know how | Lecturer/ Discussion | Written or Viva | Formative or Summative | III | |
| CO3 | Describe Trividha Roga marga (pathways of diseases) | Cognitive/ Comprehe nsion | Must know | Knows | Lecturer | Written or Viva | Formative or Summative | III | |
| CO3 | Enlist various disorders of Trividha Roga marga (pathways of diseases) | Cognitive/ Recall | Must know | Knows | Lecturer/ | Written or Viva | Formative or Summative | III | |

| CO3 | Recognise the importance of concept of Trividha Roga marga in diagnosis and prognosis of diseases. | Cognitive/ Applicatio n | Must know | Knows how | Discussion | Written or Viva | Formative or Summative | III | |
|-----|---|---------------------------------|-----------------|--------------|------------------------------------|-----------------------|---------------------------|-----|--|
| CO3 | Enumerate the symptoms of aggravated Vata-Pitta – Kapha dosha | Cognitive/ Recall | Must know | knows | Lecture, Discussion | Written or Viva | Formative or Summative | III | |
| CO3 | Identify the prakopa lakshana of dosha in various diseases | Skill | Must know | Show How | Discussion, Group activities | Written or Viva | Formative or Summative | III | |
| CO3 | Explain the concept of unnamed diseases | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture, Discussion | Written or Viva | Formative or Summative | III | |
| CO3 | Define svatantra and partantra vyadhi (primary and secondary diseases) | Cognitive/ Recall | Must know | Know | Lecture | Written or Viva | Formative or Summative | III | |
| CO3 | Enumerate the types of assessment methods | Cognitive/ Recall | Must know | Know | Lecture, Discussion | Written or Viva | Formative or Summative | III | |
| CO3 | Demonstrate the types of assessment methods. | Skill | Must know | Shows how. | Group Activities | Viva | Formative | III | |
| CO3 | Explain the concept of Guru Vyadhit and LaghuVyadhit (gravity of disease and contrary presentation) | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture, Discussion | Written or Viva | Formative or Summative | III | |
| CO3 | Enlist the 63 types of Permutation and combination of dosha | Cognitive/ Recall | Nice to know | Knows | Lecture | Written or Viva | Formative or Summative | III | |
| CO2 | Recite the shlokas 1-72 | Cognitive/ Recall | Must know | Shows | Self- learning | Written, Viva/Quiz | F & S | III | |

| CO1 | Identify Apadesh, Samucchaya | Cognitive/ Applicatio | Must know | Knows how | Lecturer/ Group | Viva | F & S | III |
|-------|--|--------------------------|---------------|--------------|--------------------|--------------------|----------------------|---------------|
| | Tantrayukties in this | n | KIIOW | now | discussion | | | |
| | chapter Tantrayukties in | 11 | | | discussion | | | |
| | this chapter. | | | | | | | |
| Topic | -14 Ashtang Hriday Samhit | a – Sutrasth | an- Chapter | r 13 Dosho | opakramaniya | Adhyaya-Time (Lect | ture:- 07; Non lectu | ure 06 hours) |
| | Explain the therapeutic | Cognitive/ | | | | Written or Viva | | III |
| CO3 | procedures and specific | Comprehe | Must | Knows | Lecture | | F & S | |
| 005 | management of vata, pitta | nsion | know | how | Lecture | | 1 & 5 | |
| | and kapha dosha | ~ | | | | | | |
| | Explain the seasonal | Cognitive/ | M | | Lecture/Gro | Written or Viva | | III |
| CO6 | regimen to be adopted in various combinations of | Comprehe nsion | Must kn ow | Knows | up | | F & S | |
| | vitiated Doshas | lision | 0w | | Discussions | | | |
| | Discuss the importance of | Cognitive/ | | | Lecture/Gro | Written or Viva | | III |
| CO6 | treatment of doshas in | Applicatio | Must kn | Knows | up | | F & S | |
| | accumulation stage | n | OW | how | Discussions | | | |
| | Differentiate the accurate | Cognitive/ | Must | Knows | Lecture/Gro | Written or Viva | | III |
| CO6 | and inaccurate therapeutic | Comprehe | know | how | up | | F & S | |
| | procedures. | nsion | MIOW | now | Discussions | | | |
| | Elaborate the factors | Cognitive/ | | | | Written or Viva | | III |
| | responsible for movement of doshas from koshta to | Comprehe nsion | Must to | Knows | Lecture | | F & S | |
| CO6 | shakha and shakha to | lision | know | how | Lecture | | Γαδ | |
| 00 | koshta. | | | | | | | |
| | Elaborate the concept of | Cognitive/ | | | | Written or Viva | | III |
| | tiryag-gatadosha | Comprehe | Must to | Vnouvo | | | | |
| CO6 | (migration to other | nsion | know | Knows how | Lecture | | F & S | |
| | abodes) and its treatment | | KIIOW | now | | | | |
| | principle. | | | | | | | |
| | Describe the line of | Cognitive/ | | | | Written or Viva | | III |
| COG | treatment for SthaniDosha | Comprehe | Must to | Knows | Lastura | | | |
| CO6 | (native) and AagantuDosha | nsion | know | how | Lecture | | F & S | |
| | (immigrant) | | | | | | | |
| L | (minigrand) | | I | l | | | <u> </u> | |

4

| CO6 | Explain the concept of Aama. | Cognitive/ Comprehe nsion | Must to know | Knows how | Lecture | Written or Viva | F & S | III | |
|--------------|--|---------------------------------|-----------------|-------------------|----------------------------------|-----------------------------|----------------------|----------------|---|
| CO6 | Enumerate the symptoms of saam and niraam doshas. | Cognitive | Must to know | Knows | Lecture | Written or Viva | F & S | III | |
| CO6 | Elaborate the symptoms of saamadosha and their treatment | Cognitive | Must to know | Knows | Lecture | Written or Viva | F & S | III | |
| CO6 | Analyze the 10 types of aushadha sevan kaal (Time, Method and indications of administration of medicine). | Cognitive/ Applicatio n | Must to know | Knows how | Lecture/Dis cussion | Written or Viva | F & S | III | |
| CO2 | Recite the shlokas-1-41 | Cognitive/ Recall | Must know | Shows | Self- learning | Written or Viva | F & S | III | |
| CO1 | Identify Swasadnya, Nidarshan, Uddesh, Nirdesh Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | III | |
| Topic | <u>-15 Ashtang Hriday Samhit</u> | a – Sutrastha | an- Chapte | r 14 Dvivi | dhopakramaniy | /a Adhyaya- <u>Time (Le</u> | ecture:- 05; Non lea | cture 05 hours |) |
| CO6 | Elaborate the concept of two types of therapies - Langhan and Brihan | Cognitive/ Comprehe nsion | Must know | Know how | Lecture | Written or Viva | F & S | III | |
| CO6 | Describe the indications, methods, benefits of Brihan and symptoms of excess Brihan | Cognitive/ Comprehe nsion | Must know | Know how | Lecture/Dis cussion | Written or Viva | F & S | Ш | |
| CO6 | Explain the indications, methods, benefits of Langhan and symptoms of excess Langhan | Cognitive/ Comprehe nsion | Must know | Know how | Lecture/ Discussion | Written or Viva | F & S | III | |

| CO6 | Describe the indications of shodhan and shaman therapies | Cognitive/ Comprehe nsion | Must know | Know how | Lecture | Written or Viva | F & S | III | |
|-------|--|---------------------------------|-----------------|--------------|----------------------------------|----------------------|--------------------|------------|------------------|
| CO6 | Elaborate the concept of Atisthaulya with the treatment module | Cognitive/ Comprehe nsion | Must know | Know how | Lecture | Written or Viva | F & S | III | |
| CO6 | Elaborate the concept of Atikarshya with the treatment module | Cognitive/ Comprehe nsion | Must know | Know how | Lecture | Written or Viva | F & S | III | |
| CO2 | Recite the shlokas – 1 to 7, 31to 36 | Cognitive/ Recall | Must know | Shows | Self- learning | Written or Viva | F & S | III | |
| CO1 | Identify Nirvachan, Samucchay, Nidarshan Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | III | |
| | <u>-16 Ashtang Hriday Samhit</u> | | - | 1 | | | | | <u>04 hours)</u> |
| CO7 | SElect the vaman, virechan, niruha, nasya gana according to their functions | Cognitive/ Comprehe nsion | Nice to know | Knows how | Lecture/Mu ltimedia aids | Viva | Formative | III | Dravyagu na |
| CO7 | Define the dravyas with their ingredients and actions. | Cognitive/ Recall | Nice to know | Know | Lecture/Mu ltimedia aids | Viva | Formative | III | |
| CO7 | Identify the dravyas frequently used in treatments | Skill | Nice to know | Shows | Herbal garden visit | Viva | Formative | III | |
| Topic | -17. Charak Samhita Sutra | sthan Chapt | er 1. Dirgha | amjivitiya | m Adhyaya; <u>T</u> | ime (Lecture:- 07; N | on lecture 02 hour | <u>(s)</u> | |
| CO1 | Discuss the Ayurvedavataranam (Genealogy of Ayurveda) | Cognitive | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
| CO8 | Discuss the chaturvarga and its main factor for | Cognitive | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |

| CO6 | Discuss about the trisutra of Ayurveda (three principles of health and disease) | Cognitive | Must know | Know how | Lecture | Written or Viva | F & S | I | |
|-----|--|-----------|--------------|--------------|---------|-----------------|-------|---|--|
| CO2 | Discuss the about the six padarthas (six basic principles) | Cognitive | Must know | Know how | Lecture | Written or Viva | F & S | Ι | |
| CO1 | Discuss the characteristics of Ayurveda | Cognitive | Must know | Know how | Lecture | Written or Viva | F & S | Ι | |
| CO2 | Discuss the characteristics of Ayu (life) and its synonyms | Skill | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
| CO2 | Discuss the characteristics of samanya (similarity) and visha (difference/uniqueness) | Cognitive | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
| CO2 | Discuss about the Tridanda (tripod of life) | Cognitive | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
| CO2 | Discuss the classification and characteristics of the dravyas (basic elements) | Cognitive | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
| CO2 | Discuss the classification and characteristics of the gunas | Cognitive | Must know | Show How | Lecture | Written or Viva | F & S | Ι | |
| CO2 | Define karma (actions) | Cognitive | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
| CO2 | Explain samavaya (inseparable concomitance) | Cognitive | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
| CO1 | Explain the aims of Ayurveda | Cognitive | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |

| CO6 | Explain the three causative factors of disease | Cognitive | Must know | Knows how | Lecture | Written or Viva | F & S | I | |
|-----|--|-----------|----------------------|--------------|-----------------------------|-----------------|-------|---|--|
| CO6 | Explain the abode of vyadhi and arogya | Cognitive | Must know | Show how | Lecture | Written or Viva | F & S | I | |
| CO2 | Discuss the characteristics of Atma | Cognitive | Must know | Know how | Lecture | Written or Viva | F & S | Ι | |
| CO6 | Explain the sharira and manasa doshas | Cognitive | Must know | Know how | Lecture | Written or Viva | F & S | Ι | |
| CO6 | Discuss the treatment of sharira and manasa doshas | Cognitive | Must know | knows How | Lecture | Written or Viva | F & S | Ι | |
| CO3 | Discuss the gunas of vayu and its treatment | Cognitive | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
| CO3 | Discuss the gunas of pitta and its treatment | Cognitive | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
| CO3 | Discuss the gunas of shleshma and its treatment | Cognitive | Must know | Knows How | Lecture | Written or Viva | F & S | I | |
| CO6 | Discuss about the treatment for sadhya and asadhya vikara (curable and incurable disease) | Cognitive | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
| CO2 | Explain the rasa | Cognitive | Must know | Knows how | Lecture | Written or Viva | F & S | Ι | |
| CO2 | Classify the dravya based on their effects on body and their origin | Cognitive | Must know | Know how | Lecture | Written or Viva | F & S | Ι | |
| CO7 | Enumerate the dravya based on the useful parts (upayuktanga) | Cognitive | Desirable to know | Know how | Lecture/Mul timedia aids | Written or Viva | F & S | I | |
| CO7 | Discuss about the identification of drugs by name, form and its action | Cognitive | Must know | Know how | Lecture/Mul timedia aids | Written or Viva | F & S | Ι | |

| CO8 | Discuss about the duties | Cognitive | Must | Know | Lecture | Written or Viva | F & S | Ι | |
|-------|--|-------------------------------|----------------------|--------------|---|----------------------|-------------------|-------|----------------|
| | for one aspires to be a physician. | | know | how | | | | | |
| CO7 | Discuss about the best drug | Cognitive | Must know | Know how | Lecture | Written or Viva | F & S | Ι | |
| CO8 | Discuss about the best physician endowed with all good qualities | Cognitive | Must know | Know how | Lecture | Written or Viva | F & S | Ι | |
| CO2 | Recite the shlokas 15, 24,28,29, 31, 41, 42, 44-67, 134,135 | Cognitive/ Recall | Must know | Shows | Swadhyaya (self learning) | Written or Viva | F & S | Ι | |
| CO1 | Identify Uddesha, Nirdesh Tantrayukties in this chapter | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | Ι | |
| Topic | -18. Charak Samhita Sutra | sthan Chapt | er 2. Apama | irga Tandu | iliya Adhyaya <u>;</u> ' | Time (Lecture:- 02 ; | Non lecture 03 ho | ours) | |
| CO7 | Enumerate few Shiro Virechana Dravya & Main Indications | Cognitive | Desirable to know | Knows | Lecture/Aud iovisual aids/ Herbal garden visit | Written or Viva | F & S | Π | Dravyagu na |
| CO7 | Enumerate few Vamana Dravya & Main Indications | Cognitive | Desirable to know | Knows | Lecture/Aud iovisual aids/ Herbal garden visit | Written or Viva | F & S | Π | Dravyagu na |
| CO7 | Enumerate few Virechana Dravya & Main Indications | Cognitive | Desirable know | Knows | Lecture/Aud iovisual aids/ Herbal garden visit | Written or Viva | F & S | Π | Dravyagu na |
| CO7 | Enumerate few Asthapana Basti Dravya & Main Indications | Cognitive | Desirable to know | Knows | Lecture/Aud iovisual aids/ Herbal garden visit | Written or Viva | F & S | Ш | Dravyagu na |

| CO7 | Enumerate few Anuvasana Basti Dravya & Main Indications | Cognitive | Desirable to know | Knows | Lecture/Aud iovisual aids/ Herbal garden visit | Written or Viva | F & S | II | Dravyagu na |
|------------|--|-------------------------------|----------------------|--------------|---|------------------------------------|--------------------|-----------|--|
| CO7 | Enumerate the names & Main Indications of 28 Types of Yavagu | Cognitive | Desirable to Know | Knows | Lecture/Aud iovisual aids | Written or Viva | F & S | Π | Rasshastra -bhaishjya dept |
| CO7 | Explain the Importance Of Panchakarma | Cognitive | Must know | Knows | Lectures | Written or Viva | F & S | Π | Panchkar ma |
| CO7 | Explain the features of Vaidya | Cognitive | Must know | Knows | Lecture/Gro up Discussion | Written or Viva | F & S | Π | |
| CO7 | Recite Shlokas 15,16,36 | Cognitive/ Recall | Must know | Shows | Self- learning | Written or Viva | F & S | II | |
| CO7 | Identify the dravyas on the basis of actions | Psychomo tor | Must know | Shows | Herbal garden visit | Viva | Summative | II | Dravyagu na |
| CO1 | Identify Upadesh, Samucchaya Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | II | |
| Topic | -19. Charak Samhita Sutras | sthan Chapte | er 3. Aragva | dhiya Adl | nyaya <u>-Time (Le</u> | cture:- 01; Non lectu | re 03 hours) | | |
| <u>C07</u> | Mention Thirty Two Churna Pradeha & Main Indications | Cognitive | Desirable to know | Knows | Lectures/M ultimedia aids | Written or Viva | Formative | II | Ras- bhaishjya/ Kayachikit sa |
| Topic | -20. Charak Samhita Sutra | sthan Chapt | er 4. Shadvi | rechana-sł | natashritiya Adl | hyaya <u>-Time (Lecture</u> | - 03 ; Non lecture | 04 hours) | |
| CO7 | List the six abodes of purgatives | Cognitive/ Recall | Must know | Know | Discussion | Written or Viva | F & S | II | Dravya guna |
| CO7 | Enlist the five tastes for medicinal preparation | Cognitive/ Recall | Must know | Know | Lecture, discussion | Written or Viva | F & S | ΙΙ | Rasashastr a & |

| | | | | | | | | | bhaishajya Kalpana |
|-----|--|---------------------------------|----------------------|--------------|--|-----------------|-------------------------------|----|-----------------------|
| CO7 | Define the five types of medicinal preparations/ forms | Cognitive/ Recall | Must know | Know | Lecture / Multimedia aids | Written or Viva | F & S | II | Ras- bhaishjya |
| CO7 | Enlist the 50 groups of medicines as per their actions | Cognitive/ Recall | Desirable to know | Know | Lecture | Written or Viva | F & S | II | Dravya guna |
| CO7 | Limitations for description of medicinal drugs in Samhita | Cognitive/ Comprehe nsion | Nice to know | Know how | Lecture | Written or Viva | Formative | II | |
| CO1 | Identify Swasadnya , Samucchaya, Yog Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | Π | |
| | -21. Charak Samhita Sutra | | | | | | | | - |
| CO5 | Explain Matravat Ahara | Cognitive/ Recall | Must know | Know | Lecturer, Audio- Visual aids, Group Discussion | Written or Viva | Formative and Summative | Π | Swastarutt a |
| CO5 | Define and enlist Nature of Ahara (Guru, Laghu) | Cognitive/ Recall | Must know | Knows how | Lecturer Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | Π | Swastarutt a |
| CO5 | Explain the significance of MatravatAharaPhala | Cognitive/ Recall | Must know | Know how | Lecturer, Audio- Visual aids, Group Discussion | Written or Viva | Formative and Summative | П | Swastarutt a |
| CO5 | Discuss role of AharaSevanaVidhana on the bases of its nature | Cognitive/ Comprehe nsion | Must know | Know how | Lecturer Audio- Visual aids | Written or Viva | Formative and Summative | II | Swastarutt a |

| | | | | | Group Discussion | | | | |
|-----|-------------------------|---------------------------------|--------------|--------------|--|-----------------|-------------------------------|----|---|
| CO2 | Define Swasthavrutta | Cognitive/ Recall | Must know | Knows | Lecturer Audio- Visual aids Group Discussion | .Viva | Formative and Summative | Ш | Swastarutt a |
| CO6 | Explain Anjana | Cognitive/ Comprehe nsion | Must know | Know | Lecturer Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | Π | Swastarutt a |
| CO6 | Explain Dhumapana | Cognitive/ Comprehe nsion | Must know | Knows how | Lecturer Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | Ш | Swastarutt a, Shalakya , Panchakar ma |
| CO6 | Explain Nasya | Cognitive/ Comprehe nsion | Must know | Knows how | Lecturer Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | Ш | Swastarutt a, Shalakya , Panchakar ma |
| CO6 | Explain Dantadhavana | Cognitive/ Comprehe nsion | Must know | know How | Lecturer Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | Π | Swastarutt a, |
| CO6 | Explain Jivhanirlekhana | Cognitive/ Comprehe nsion | Must know | know How | Lecturer Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | Ш | Swastarutt a, |
| CO6 | Explain Gandusha | Cognitive/ Comprehe nsion | Must know | Knows how | Lecturer Audio- Visual aids | Written or Viva | Formative and Summative | II | Swastarutt a, |

| | | | | | Group Discussion | | | | |
|-----|--|---------------------------------|--------------|--------------|--|-----------------|-------------------------------|----|---------------------------------|
| CO6 | Explain Abhyanga with types | Cognitive/ Comprehe nsion | Must know | Knows how | Lecturer Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | II | Swastarutt a,Panchak arma |
| CO6 | Describe Parimarjana | Cognitive/ Comprehe nsion | Must know | Knows how | Lecturer Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | Π | Swastarutt a, |
| CO4 | Describe the VastraGandhaMalyadiDha rana | Cognitive/ Comprehe nsion | Must know | Knows how | Lecturer Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | П | Swastarutt a, |
| CO4 | Explain the concept of Shouchavidhi | Cognitive/ Comprehe nsion | Must know | Knows how | Lecturer Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | П | Swastarutt a, |
| CO4 | Discuss the Kshoura Karma | Cognitive/ Comprehe nsion | Must know | Know how | Lecturer Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | Π | Swastarutt a, |
| CO4 | Define PadatraDharan with importance | Cognitive/ Recall | Must know | Know how | Lecturer Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | Π | Swastarutt a, |
| CO4 | Explain the ChatraDharana | Cognitive/ Recall | Must know | knows How | Lecturer Audio- Visual aids | Written or Viva | Formative and Summative | II | Swastarutt a, |

| | | | | | Group Discussion | | | | |
|-------|--|---------------------------------|-----------------|--------------|---|--------------------------------------|-------------------------------|-------|--|
| CO4 | Justify the importance of the procedures mentioned as dincharya | Cognitive/ Applicatio n | Must know | Shows how | Group Discussion | Group Discussion/ Project work | Formative and Summative | П | |
| CO2 | Recite the shlokas 4, 12- 13, 34-35, 56-57,68-69, 81-83, 103 | Cognitive/ Recall | Must know | Shows | Swadhyaya (self learning) | Viva | F & S | II | |
| CO1 | Identify Upadesh, Padarth,, Nidarshan Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | II | |
| CO4 | Research Updates: Role of Dinacharya to maintain circadian rhythm Role of therapeutic message for cell rejuevination Mechanism of satiation and proper quantity of food (Sauhitya Matra) | Cognitive | Nice to know | Knows how | Lecture; Audio- vidual aids | Group discussion | - | Π | |
| Topic | -22. Charak Samhita Sutra | sthan Chapt | er-6. Tasyas | shiteeya Ao | dhyaya <u>-Time (I</u> | Lecture: - 04; Non lect | ure 04 hours) | · · · | |
| CO2 | Discuss the importance of Classification of Samvastara | Cognitive/ Comprehe nsion | Must know | Knows how | Lecture Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | Π | |
| CO2 | Explain the significance of Visarga Kala | Cognitive/ Comprehe nsion | Must know | Know how | Lecture Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | II | |

| CO2 | Explain the significance of Adana kala | Cognitive/ Recall | Must know | Know how | Lecture Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | II |
|-----|---|-------------------------------|--------------|--------------|---|---|----------------------------|----|
| CO4 | Explain the nature of climate in Shadrutu | Cognitive/ Recall | Must know | Know how | Lecture Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | Ш |
| CO4 | Explain Sevaniya and Nishiddh Ahara Vihara in Shadrutu | Cognitive/ Recall | Must know | Know how | Lecture Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | Ш |
| CO4 | Define and explain the properties of Hamsodaka | Cognitive/ Recall | Must know | Knows | Lecture Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | Π |
| CO4 | Justify the regimen mentioned as per seasons | Cognitive/ Applicatio n | Must know | Show how | Group Discussion | Group Discussion/ Project work/viva | Formative and Summative | П |
| CO2 | Describe Saatmya and its types | Cognitive/ Recall | Must know | Knows | Lecture Audio- Visual aids Group Discussion | Written or Viva | Formative and Summative | Π |
| CO2 | Recite Shloka number 18, 21, 29, 35, 45, 49, 50 | Cognitive/ Recall | Must know | Knows | Swadhyaya –Self learning | Written or Viva | Formative and Summative | II |
| CO1 | Identify Uddesh- Nirdesh, swasadnya Tantrayukties in this chapter | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | II |

| CO4 | Research Updates: What causes the season: Summer and winter solistice- Equinoxes- Rotation of earth around | Cognitive/ Applicatio n | Nice to know | Knows | Lecture, Audio- vidual aids | Group discussion | - | II | |
|------------|---|-------------------------------|-----------------|-------------|---|----------------------|-------------------|----|-------------------|
| Tonio | sun. -23. Charak Samhita Sutra | cthan Chant | on 7 Novos | ronodhoron | ive Adhueve T | ima (Lastura: 04 · N | n lastura 04 haur | | |
| CO4 | Enumerate Adharaniya and Dharaniya Vega | Cognitive/ Recall | Must to know | know | lecture/ Group discussion/ | Written or Viva | F & S | | |
| CO4 CO6 | Describe symptoms and treatment pattern of Adharaniya Vega | Cognitive | Must to know | Know how | lecture/ Group discussion /quiz | Written or Viva | F & S | II | |
| CO4 | Cite symptoms and treatment pattern of Dharaniya Vega | Cognitive | Must to know | Know how | lecture/ quiz/Group discussion | Written or Viva | F & S | II | |
| CO4 | Quote the contraindicated actions of mind, speech and body. | Cognitive | Must to know | Know | lecture/ quiz/Group discussion | Written or Viva | F & S | Π | |
| CO4 | Describe concept, effects and benefits of exercise | Cognitive | Must to know | Know how | lecture/ recitation/ quiz/Audiov isual aids | Written or Viva | F & S | II | Swasthavr itta |
| CO4 | describe symptoms due to excessive exercise | Cognitive | Must to know | Know | lecture/ Group discussion/ quiz/Audiov isual aids | Written or Viva | F & S | II | Swasthavr itta |
| CO4 | Describe the action which should be avoided in excess | Cognitive | Must to know | Know how | lecture/ Group discussion /quiz | Written or Viva | F & S | II | |

| CO4 | Describe pattern of Ahita Krama tyaga | Cognitive | Must to know | Know how | lecture/ Group discussion/ quiz | Written or Viva | F & S | II | |
|-----|---|-----------|-----------------|-------------|--|-----------------|-------|----|----------------|
| CO4 | Classify deha prakruti | Cognitive | Must to know | Know | lecture/ Group discussion/ quiz | Written or Viva | F & S | Π | |
| CO6 | Describe Aagantuj vyadhis (exogenous diseases) | Cognitive | Must to know | Know | lecture/ Group discussion/ quiz | Written or Viva | F & S | II | Nidan |
| CO6 | Describe Pradnyaparadhaj vyadhi | Cognitive | Must to know | Know | lecture/ Group discussion/ quiz | Written or Viva | F & S | II | Nidan |
| CO4 | State Vikar Anutpatti Vidhi (Preventive measures of diseases) | Cognitive | Must to know | Know how | lecture/ Group discussion/ quiz | Written or Viva | F & S | Π | |
| CO6 | describe treatment of Aagantuj (exogenous) and Manas (psychological)diseases | Cognitive | Must to know | Know how | lecture/ Group discussion/ quiz | Written or Viva | F & S | II | |
| CO4 | Describe shodhan treatment as per season | Cognitive | Must to know | Know how | lecture/ Group discussion/ quiz | Written or Viva | F & S | II | Panchkar ma |
| CO4 | Describe Aapta and anapta purush | Cognitive | Must to know | Know | lecture/ Group discussion/ quiz | Written or Viva | F & S | II | |
| CO4 | Describe the rules of eating curd | Cognitive | Must to know | Know how | lecture/ Group | Written or Viva | F & S | II | |

| | | | | | discussion/ quiz | | | |
|-------|--|---------------------------------|-------------------|--------------|--|------------------------|--------------------------|-----|
| CO2 | Recite shloka number 27, 28, 29, 30, 31, 39, 40, 55, 60. | Cognitive | Must to know | Know how | lecture/ Group discussion/ quiz | Written or Viva | F & S | Π |
| CO1 | Identify Arthapatti , Nirvachan, Vyakhyan Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | Π |
| CO4 | Research Updates: Corelation of genomic variation with the classification of Prakriti | Cognitive/ Recall | Desire to know | Know | lecture/ Audio- vidual aids | Group discussion | - | Π |
| Topic | -24. Charak Samhita Sutra | sthan Chapt | er-8. Indriv | opakramar | iya Adhyaya_' | Time (Lecture: - 04; N | Non lecture 03 hou | rs) |
| CO2 | Enumerate Indriya/ Dravya/Adhishthana/ Artha/ Buddhi | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | Π |
| CO4 | Write the characteristics of Mana | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | II |
| CO4 | Justify the ektvam of Manas | Cognitive/ Comprehe nsion | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | II |
| CO4 | State that Sattvikatva, Rajasatva and Tamasatva of Manas | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | Π |
| CO4 | Tabulate Indriya PanchaPanchaka | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | II |
| CO4 | Quote Adhyatma Dravya Guna Sangraha | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative &Summative | II |

| CO4 | State the predominant Mahabhuta in each Indriya | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | II |
|-------|---|---------------------------------|-----------------|--------------|--|---------------------------------|--------------------------|--------|
| CO4 | Know the role of Indriya and Mana in Prakriti and Vikriti | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | II |
| CO4 | Discuss the Causes and Benefits of Sadvritta Anushthana | Cognitive/ Comprehe nsion | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | II |
| CO4 | Elaborate the Do's and Don'ts in Sadvritta | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids/ Group Discussion | Written or Viva | Formative & Summative | Π |
| CO4 | Explain Hetuchatushtaya | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | II |
| CO4 | State the guideline for Anukta Sadvritta | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | Π |
| CO2 | Recite the shloka number 7-13, 34 | Cognitive/ Recall | Must know | Shows | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | Π |
| CO1 | Identify Upadesh, Samucchaya, Yog Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | Formative & Summative | II |
| CO4 | Research updates: Mental health and gut microbiota. | Cognitive/ Applicatio n | Nice to know | Know | Lectures/ Audio- Visual Aids | Group discussion | - | II |
| Topic | -2CO Charak Samhita Sut | rasthan Chaj | pter-9. Khu | ddakachati | ushpada Adhya | ya- T <u>ime (Lecture:- 0</u> 2 | 3; Non lecture 03 | hours) |
| CO8 | Cite Chikitsa Chatushpada (four components of healthcare) | Cognitive | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | П |

| CO8 | Define Roga-Arogya (disease-health) | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | II |
|-----|---|---------------------------------|--------------|------|------------------------------------|-----------------|--------------------------|----|
| CO8 | Define Chikitsa (treatment) | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | П |
| CO8 | List the Qualities of Vaidya (physician) | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | Π |
| CO8 | List the Qualities of Dravya (medicine) | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | Π |
| CO8 | List the Qualities of Paricharaka (nursing staff) | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | II |
| CO8 | List the Qualities of Aatura (patient) | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | Π |
| CO8 | State the iimportance of Vaidya in the 4 components of healthcare | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | П |
| CO8 | Write the Complications due to ignorant physician | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | II |
| CO8 | Describe the Sadvaidya Qualities (good physician) | Cognitive/ Comprehe nsion | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | П |
| CO8 | Write the duties of the physician | Cognitive/ Comprehe nsion | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | II |
| CO8 | List Four types of Vaidya vritti (attitude of the physician) | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | П |

| CO8 | Recite the shloka number 3,4,5,18,20,21, 24,25,26 | Cognitive/ Recall | Must know | Shows | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | II |
|-----|--|-------------------------------|--------------------------------|--------------|--|------------------|--------------------------|----------|
| CO8 | Discuss the qualities and duties of a good physician | Cognitive/ Applicatio n | Must know | Shows how | | Written or Viva | Formative | Π |
| C01 | Identify Uddesh, Nirdesh, Nidarshan Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | II |
| CO8 | Research Updates: Medical ethics-principles Soft Skill development for medical students Emotional Intelligence as a crucial component in medical edication | Cognitive sthan Chapt | Nice to know er-10. Maha | Knows | Lecture / Audio- Vidual aids da Adhyaya- Ti | Group discussion | - on lecture 03 hour | II s) |
| CO6 | Substantiation of Chatushpaada- bheshajam alam aarogyaayeti (aatreya-krta), Bheshaja- abheshajayo tulyatva pratipaadana – (maitreya- krta), Its conclusion by Atreya, | Cognitive/ Recall | Desirable to know | Knows | Lecture with substantiatio n of the point by mentioning contemporar y examples | Written & Viva | F & S | Π |
| CO6 | Explain the Cikitsaa sootram- Cikitsaayaam yasolaabhe kaaranam, | Cognitive/ Recall | Desirable to know | Knows | Lecture with substantiatio n of the | Written or Viva | F & S | II |

| CO6 | Asaadhyaroga- cikitsaayaam haani, | Cognitive/ Recall | Desirable to know | Knows | contemporar y examples Lecture with substantiatio | Written or Viva | F & S | II | |
|-----|--|----------------------|----------------------|--------------|--|---|-------|----|--|
| | cikitsuay aani naani, | | | | n of the point by mentioning contemporar y examples | | | | |
| CO6 | Describe the upamaana pramaana | Cognitive/ Recall | Desirable to know | Knows | Lecture with substantiatio n of the point by mentioning contemporar y examples | Written or Viva | F & S | II | |
| CO6 | Enumerate and analyse the further classification of saadhya-asaadhyata | Cognitive/ Recall | Must know | Knows | Lecture with live demonstrati on in OP | Written or Viva | F & S | П | |
| CO6 | Identify, judge and discuss Sukha-saadhya lakshanam, Krcchra- saadhya lakshanam, Yaapya lakshanam and Pratyaakhyeya lakshanam | Cognitive/ Recall | Must know | Knows how | Lectures and clinical demonstrati on | Viva / written Problem based assessment | F & S | II | |
| CO6 | Apply and interpret the benefit of knowledge of prognosis | Cognitive/ Recall | Must know | Knows | Lectures | Written or Viva | F & S | II | |
| CO6 | Analyse the term mithyaa- buddhi and accept responsibility to not end up as a mithyaa-buddhi at | Cognitive/ Recall | Must know | Knows | Lectures | Written or Viva Discussions | F | II | |

| | any point of time of the profession | | | | | | | |
|-------|---|-------------------------------|--------------|--------------|------------------------------------|---------------------------------|--------------------------|-----|
| CO6 | Recite Shloka number 14 to 20 | Cognitive/ Recall | Must know | Knows | Lecture, swaadhyaay a | Viva | F & S | Π |
| CO1 | Identify Nirnaya, Swasdnya, Sanshaya, Ekant Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | П |
| Topic | -27. Charak Samhita Sutra | sthan Chapt | er-11. Tisra | ishaniya A | dhyaya- <u>TIme</u> | (Lecture:- 06; Non le | cture 05 hours) | |
| CO4 | Explain the significance of the three desires for prana (life) and dhana(means of life). | Cognitive/ Recall | Must know | Know how | Lectures/ Audio- Visual Aids | Written & Viva | Formative & Summative | III |
| CO4 | Discuss the concept of paraloka | Cognitive/ Recall | Must know | Know how | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III |
| CO4 | Discuss different opinions on the concept of punarjanma (re-birth) | Cognitive/ Recall | Must know | Know how | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III |
| CO2 | Define characteristics of Aapta | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III |
| CO2 | Define pratyaksha, anumana and yuktipramana with example | Cognitive/ Recall | Must know | Know how | Lectures/ Audio- Visual Aids | Lectures/ Audio- Visual Aids | Formative & Summative | III |

| CO2 | Justify punarjanma by using aaptopadesha, pratyaksha, Anumana and yuktipramana | Cognitive/ Applicatio n | Must know | Know how | Lectures/ Audio- Visual Aids | Written or Viva | Formative &Summative | III |
|-----|--|-------------------------------|--------------|-------------|------------------------------------|------------------------------------|--------------------------|-----|
| CO4 | Explain the importance of thrayopasthamba (sub-pillars of life). | Cognitive/ Applicatio n | Must know | Know how | Lectures/ Audio- Visual Aids | Written-MCQ/ SAQ/ LAQ & Viva | Formative & Summative | III |
| CO4 | Discuss the three types of bala (strength)and its importance. | Cognitive/ Applicatio n | Must know | Know how | Lectures/ Audio- Visual Aids | Written & Viva | Formative & Summative | III |
| CO6 | Describe the three causes of disease. | Cognitive/ Applicatio n | Must know | Know | Lectures/ Audio- Visual Aids | Written & Viva | Formative & Summative | III |
| CO6 | Identify the symptoms due to excessive, less and improper use of sense organs | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III |
| CO6 | Identify the symptoms due to excessive, less and improper verbal, psychic and physical actions. | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III |
| CO6 | Define Prajnaparadha | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III |

| CO6 | Identify the signs of excess, less and improper kaala (season) | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |
|-----|---|---------------------------------|--------------|-------------|------------------------------------|-----------------|--------------------------|-----|--|
| CO6 | Define nija, agantu and manasa roga. | Cognitive/ Recall | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |
| CO6 | Discuss general treatment protocol for manasavyadhi (psychological disorders) | Cognitive/ Comprehe nsion | Must know | Know how | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |
| CO6 | Discuss the three disease pathways | Cognitive/ Comprehe nsion | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |
| CO8 | Classify the three types of physicians | Cognitive/ Comprehe nsion | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |
| CO6 | Describe daivavyapashraya, yuktivyapashraya and satvavajayachikitsa | Cognitive/ Comprehe nsion | Must know | Know how | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |
| CO6 | Describe antahaparimarjana, bahiparimarjana,shastrapr anidhanachikitsa. | Cognitive/ Comprehe nsion | Must know | Know how | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |

| CO2 | Discuss importance of ashta trika. | Cognitive/ Applicatio n | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |
|-------|---|-------------------------------|----------------------|--------------|--|----------------------|--------------------------|-----|--|
| CO2 | Recitation of Shloka number 18,19,20,21,22,23,24, 25, 47. | Skill | Must know | Know | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |
| CO1 | Identify Swasadnyaa, samucchaya, Samshaya, Nirvachan Tantrayukties in this chapter. | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | F & S | III | |
| Topic | -28. Charak Samhita Sutra | sthan Chapt | er-12. Vatal | kalakaliya | Adhyaya <u>-</u> TI <u>me</u> | (Lecture:- 04; Non l | ecture 05 hours) | | |
| CO4 | explore the various properties of vata | Cognitive/ Recall | Must know | Knows how | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |
| CO4 | Discuss the opinions of various aacharyas on different aspects of Vata dosha | Cognitive/ Recall | Must Know | Knows | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |
| CO4 | Explore various factors responsible for aggravation and and pacification of vata dosha | Cognitive/ Recall | Must know | Knows how | Lectures/ Audio- Visual Aids/Group Discussion | Written or Viva | Formative & Summative | III | |
| CO4 | enumerate prakrita and vikrita karma of vata | Cognitive/ Recall | Must know | Knows how | Lectures/ Audio- Visual Aids/ Group Discussion | Written or Viva | Formative & Summative | III | |
| CO4 | Explain the clinical application of Vata Guna | Cognitive/ Recall | Desirable to know | Knows how | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |

| CO4 | Describe the action of normal and aggravated Pitta | Cognitive/ Comprehe nsion | Must know | Knows how | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |
|-----|--|---------------------------------|--------------|--------------|------------------------------------|-----------------|--------------------------|-----|--|
| CO4 | Describe the action of normal and aggravated Kapha | Cognitive/ Comprehe nsion | Must know | Knows how | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |
| CO4 | Describe atreya's exploration on Tridosha and its importance | Cognitive/ Comprehe nsion | Must know | Knows how | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |
| CO4 | Recite the shlokas- 8,11,12 | Cognitive/ Recall | Must know | Shows | Lectures/ Audio- Visual Aids | Written or Viva | Formative & Summative | III | |
| CO1 | Identify Padartha, Vyakhyan, Anumat Tantrayukties in this chapter | Cognitive/ Applicatio n | Must know | Knows how | Lecturer/ Group discussion | Viva | Formative & Summative | III | |

Table 4 : Practical/ Activities for AyUG - SA 1

| Term wise distribution of allotted time | | | | | | | | |
|---|----------------|-----------|----------------------|--------------------|--|--|--|--|
| Term | Total teaching | Lecture | Non Lecture (260hrs) | | | | | |
| | (400 hrs) | (140 hrs) | Samhita Pathan | Activities- | | | | |
| | | | (130 hrs) | In class/ Hospital | | | | |
| | | | | (130 hrs) | | | | |
| Ι | 130 hrs. | 50 hrs. | 50 | 30 | | | | |
| II | 140 hrs. | 50 hrs. | 40 | 50 | | | | |
| III | 130 hrs. | 40 hrs. | 40 | 50 | | | | |

Table 5: Non Lecture Activities Course AyUG-SA1

Non Lecture activities- (Samhita Pathan / In Class Activities & Hospital Based activities) : 260 hrs

| SN | Name of Practical | Term | |
|----|--|---------------|---|
| 1. | Samhita Pathan | I, II, III | Total 130 in all three terms. (Term I-50 hrs; Term II - 40hrs; Term III - 40hrs) |
| | In Class Activities/ Case Based Activities/ Field Activities | | |
| 2. | Introduction to Samhita Problem based learning : Application of Tantrayukti for chapter number 1, 2 of Ashtang Hridaya and chapter 1st of charak Samhita. | Ī | 5 hrs. |
| | Group Activity Interpret Anubandha Chatushtya with examples Interpret Ashta Prashna with example | Ī | 4 hrs |
| | Ashtang Hriday Samhita - Sutrasthan (1- 5Adhyaya) | | |
| 3. | AH Su 1. Ayushkamiya Adhyaya Commentary Based activity- Fetch the meaning of important terms on the basis of commentary. (Any 30 important words). Make your own dictionary. | Ī | 3 hrs |
| 4. | AH Su 2. Dinacharya Adhyaya- Survey Activity: Application of concepts- Dincharya and its application: Proforma based assessment in healthy volunteers/ patients. Daily routine shall be recorded on the basis of predesigned proforma and then shall discuss. Communication Skill introduction. Survey Role play. | Ī | 4 hrs |

| 5. | AH Su 3. Rutucarya Adhyaya- Application of concepts- Ritucharya and application - Proforma based assessment in healthy | Ī | 4 hrs |
|-----|---|----|--------|
| 6. | individuals or patients. AH Su 4. Roganutpadaniya Adhyaya- Case Based Activity/Learning- Assess the sign and symptoms of given case on the basis of learning of Adharaneeya Vegas and find out the probable causative factors on the basis of | Ī | 4 hrs |
| 7. | principles taught. AH Su 5. Dravadravya Vijnaniya Adhyaya Group Activity-(Group presentation)- Utility of Dravyas:- Allocate the Dravadravya Vargas among student groups. Every group will Justify (represent) the practical utility of dravyas allotted to them. | Ī | 4 hrs |
| 8. | 6. Annaswaroopa Vijnaneeya Adhyaya- Group presentation- Justify the utility of this chapter in present era- Every group will illustrate the utility of their assigned Aahara Dravya Varga (Discuss practically available dravyas) | II | 3 hrs |
| 9. | 7. Annaraksha Adhyaya- Discussion- Explore the present dietary habits- Explore the Various diet combinations used in present society (by four family/ Relatives/ neighborhood) on the basis of principles learned for viruddhahar. Discuss them in class. | П | 4 hrs |
| 10. | Trayopastambha -Importance of Nidra- Flipped classroom- Share the prerecorded videos/ other material with students before class. On the basis of these have discussion. | II | 4 hrs |
| 10. | Matrashitiya Adhyaya- Case Based learning- Determine adverse effects of heena matra | | 4 11 5 |

| | (inadequate quantity of food) and atimatra (excess quantity of food) ahara:- (Video clip of patient suffering from a type of Ajeerna can be shared in class and then group wise discussion on the concept.) Group Activity- Differentiate between the food items recommended and non-recommended for daily use:- Cross refer the previous chapters and demonstrate the rationale behind the wholesome or unwholesome nature of these enlisted Dravyas referring their qualities. | | |
|-----|---|-----|-------|
| 11. | 9. Dravyaadi Vijnaniya Adhyaya- Application of concepts- Enlist the dravyas according to Rasa, Veerya, Vipaka, Prabhav. (Can refer chapter 5,6,10 of Ashtang Hriday and Chapter 2, 3, 4 of Charak Samhita). Apply the concepts learned in present chapter to understand the action of Dravyas. | II | 4 hrs |
| 12. | 10. Rasabhediya Adhyaya- Case based learning- Prepare proforma enlisting the sign and symptoms of excess consumption of six Rasas and regular diet pattern. Asses the predominance of Rasa consumption in patients or healthy volunteeres. Then Correlate with the case findings. | Π | 4 hrs |
| 13. | 11. Doshadi Vijnaniya Adhyaya- Case Based learning-(CBL)- Assess the patient for Vriddhi and Kshaya Lakshanas of Dosha-Dhatu-Mala, based on predesigned proforma. Discuss these case findings later in class. | III | 5 hrs |
| 14. | 12. Doshabhediya Adhyaya- Model making Activity- Working models on Dosha Sthanas or Subtypes of Doshas, Chaya, Prakop and Prashama of Doshas: PBL/CBL | III | 5 hrs |

| 19. | CS Su 2. Apamarga Tanduliya Adhyaya- Visit to Dravyaguna Department- Identify the dravyas on the basis of different karmas | Π | 3 hrs |
|-----|--|----|-------|
| 20. | CS Su 3. Aragvadhiya Adhyaya- Group Discussion- Probable mode of action of drugs applied externally? In which form they will more absorbable? (May take help of published literature; discuss linking with Ayurveda fundamentals.) Practical demonstrations in Panchakarma unit on patients. Workshop/ demonstration of preparation of different lepas useful in different conditions. | Π | 3 hrs |
| 21. | CS Su 4. Shadvirechana-shatashritiya Adhyaya- Practical Demonstration: Visit to Dravyaguna Department and demonstration of various Mahakashay and its uses (Integration with Dravyaguna department) | Π | 4 hrs |
| 22. | CS Su 5. Matrashiteeya Adhyaya- Visit to Panchakarma Unit of Hospital – Demonstration of abhyanga, mardana, udvartana and other procedures to be followed in daily routine (Integration with Panchakarma Department) Group Project : Gather information about nutritive values of Nitya Sevaniya Dravyas. Assess their classical properties. Discuss why these dravyas are | II | 5 hrs |
| | specially advised for regular consumption. | | |
| 23. | CS Su 6. Tasyashiteeya Adhyaya- Documentation- Festival and rutu- Documenting the changes in the food habits and | П | 4 hrs |

| | lifestyle as per the rutu with the parents and elders and also discussing on relevance of rutucharya concept with Indian festivals. Short Essay writing /Poster making- Does and don'ts to be followed according to various seasons (Refer both the Samhitas for this activity) | | |
|-----|---|----|-------|
| 24. | CS Su 7. Naveganadharaniya Adhyaya:- | п | 4 hrs |
| | Vedio clip making Activity- Educating people about harms of vega dharana by social media campaigns Group Discussion- Finding reasons for vega dharana in present day lifestyle. | | |
| 25. | CS Su 8. Indriyopakramaniya Adhyaya- Group Presentation- Sadvrutta – Interpreting relevance of different sadvrutta in present scenario. Developing new sadvruttas as per todays' lifestyle referring classics. | II | 3 hrs |
| 26. | CS Su 9. Khuddakachatushpada Adhyaya- Doctor Patient communication introduction, Role play. Feedback collection of chikitsa chatushpada Group activity- Collect Feedback on qualities of Vaidya from rogi and upasthata. Collect Feedback on qualities of rogi from vaidya and upasthatha Collect Feedback on qualities of upasthatha from rogi and Vaidya Collect feedback on qualities of dravya from the experts of dravyaguna and rasa shastra | Π | 3 hrs |
| 27. | CS Su 10. Mahachatushpada Adhyaya- Developing proforma for sadhya asadhya vyadhi lakshanas- | П | 3 hrs |

| | Guide students on how to prepare a proforma to assess any available parameters. | | |
|-----|---|-----|-------|
| 28. | CS Su 11. Tisraishaniya Adhyaya- Debate :- Punarjanma siddhant as per different thoughts. Debate on punarjanma with different references as per classics and contemporary understanding. | III | 5 hrs |
| 29. | CS Su 12. Vatakalakaliya Adhyaya- Role Play (Enact sambhasha parishad) – Distribute the characters of the rishis given in chapter. And guide them with the script. Arrange a forum where these students will be doing sambhasha parishad on vata kala-akala. Decode the sutras- Students in groups will use different tools like infographics/ animation/ ppts to illustrate the normal functions of Vata Dosha explained in present chapter. (Refer Chakrapani commentary thoroughly to understand the meaning of Sanskrit shlokas). Introduction to Group Dynamics. Communication skills for Group Discussions. | ш | 5 hrs |
| 30. | Shloka Recitation Competition- At the end of the year/ every term such competition shall organized by department. | III | 5 hrs |
| 31. | Ayurveda Quiz- On the basis of assigned syllabus. | III | 5 hrs |
| 32. | Poster making Competition / SA writing completion / Making video clips for general people to make awareness about Ayurved living. | III | 5 hrs |

Table 6: Assessment Summary6 A- Number of Papers and Marks Distribution

| | Subject Code | | Theory | Practical/Clinical Assessment | | | | | Grand |
|-------|--------------|--------|--------|-------------------------------|------|-------------|----|--------------|-------|
| S.No. | | Papers | | Practical/ Clinical | Viva | Electives | IA | Sub Total | Total |
| 1. | AyUG-SA1 | 1 | 100 | - | 75 | 10 (Set-FC) | 15 | 100 | 200 |
| | | | | | | | | | |

6 B - Scheme of Assessment (formative and Summative)

| | SR.NO. | | PROFESSIONAL | DURATION OF PROFESSIONAL COURSE | | | |
|--------|---------|-----------|----------------------|---------------------------------|------------------------------|------------------------------|--|
| SR.NO. | | | COURSE | First Term (1-6 Months) | Second Term (7-12 Months) | Third Term (13-18 Months) | |
| 1 | AyUG-SA | 1 | First | 3 PA & First TT | 3 PA & Second TT | 3 PA &UE | |
| | | PA: Perio | odical Assessment; T | T: Term Test; UE | : University Examina | ations | |

6 C - Calculation Method for Internal assessment Marks (15 Marks)

| | | PERIODICAL ASSESSMENT* | | | | TERM TEST** | | | |
|-----------------|---|------------------------|-----------------|----------------------|--|--|-------------------------------|-----------------------------|--|
| | Α | В | С | D | Ε | F | G | Н | |
| TERM | 1 (15 Marks) | 2 (15 Marks) | 3 (15 Marks) | Average (A+B+C/3) | Converted to 15 Marks (D/15*15) | Term Test (Marks converted to 15) (15 Marks) | Sub Total _/30 Marks | Term Assessment (/15) | |
| FIRST | | | | | | | E+F | (E+F)/2 | |
| SECOND | | | | | | | E+F | (E+F)/2 | |
| THIRD | | | | | | NIL | | E | |
| Final IA | Average of Three Term Assessment Marks as Shown in 'H' Column. | | | | | | | | |
| | Maximum Marks in Parentheses *Select an Evaluation Methods which is appropriate for the objectives of Topics from the Table 6 D for Peroadic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert to 15 marks. | | | | | | | | |

6 D - Evaluation Methods for Periodical Assessment

| S. No. | Evaluation Methods |
|--------|--|
| 1. | Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3. |
| 2. | Practical / Clinical Performance |

| 3. | Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions) |
|-----|---|
| 4. | Open Book Test (Problem Based) |
| 5. | Summary Writing (Research Papers/ Samhitas) |
| 6. | Class Presentations; Work Book Maintenance |
| 7. | Problem Based Assignment |
| 8. | Objective Structured Clinical Examination (OSCE), |
| | Objective Structured Practical Examination (OPSE), |
| | Mini Clinical Evaluation Exercise (Mini-CEX), |
| | Direct Observation of Procedures (DOP), |
| | Case Based Discussion (CBD) |
| 9. | Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or |
| | Other Activities which may be decided by the department). |
| 10. | Small Project |

6 E - Paper Layout

I PROFESSIONAL BAMS EXAMINATIONS

AyUG-SA1

Time: 3Maximum Marks: 100INSTRUCTIONS: All questions compulsoryTOTAL MARKS 100

| | | Number of | Marks per question | Total Marks |
|-----|---------------------------------|-----------|--------------------|-------------|
| | | Questions | | |
| Q 1 | Multiple Choice Questions (MCQ) | 20 | 1 | 20 |
| Q 2 | Short answer questions (SAQ) | 8 | 5 | 40 |
| Q 3 | Long answer questions (LAQ) | 4 | 10 | 40 |
| | | | | 100 |

6 F - Disribution of Theory Exam

| | | "Y | D Type of Questions Yes" can be asked. should not be asked. | | | |
|------|---|------|--|-----------------|------------------|-------------------|
| | A List of Topics | B | C Marks | MCQ (1 Mark) | SAQ (E Marka) | LAQ (10 Marks) |
| | List of Topics | Term | Marks | (1 Mark) | (5 Marks) | (10 Marks) |
| 1. | Introduction to Samhita- | 1 | | No | /NO | NO |
| Asht | Ashtang Hriday Samhita - Sutrasthan (1-15 Adhyaya) 50 marks | | | | | |
| 2. | AH Su.1. Ayushkamiya Adhyaya | 1 | 50 | YES | YES | YES |

| 3. | AH Su.2. Dinacharya Adhyaya | 1 | | YES | YES | YES |
|-----|---|------------|-----------|--------------|------|-----|
| 4. | AH Su.3. Rutucarya Adhyaya | 1 | - | YES | YES | YES |
| 5. | AH Su.4. Roganutpadaniya Adhyaya | Ι | - | YES | YES | YES |
| 6. | AH Su.5. Dravadravya Vijnaniya Adhyaya | Ι | | NO | YES | NO |
| 7. | AH Su.6. Annaswaroopa Vijnaneeya Adhyaya | II | | NO | YES | NO |
| 8. | AH Su.7. Annaraksha Adhyaya | II | - | NO | YES | NO |
| 9. | AH Su.8. Matrashitiya Adhyaya | II | - | YES | YES | YES |
| 10. | AH Su.9. Dravyaadi Vijnaniya Adhyaya | II | | YES | YES | YES |
| 11. | AH Su.10.Rasabhediya Adhyaya | II | | YES | YES | YES |
| 12. | AH Su.11.Doshadi Vijnaniya Adhyaya | III | | YES | YES | YES |
| 13. | AH Su.12.Doshabhediya Adhyaya | III | | YES | YES | YES |
| 14. | AH Su.13.Doshopakramaniya Adhyaya | III | | YES | YES | YES |
| 15. | AH Su.14.Dvividhopakramaniya Adhyaya | III | | YES | YES | YES |
| 16. | AH Su.15.Shodhanadigana Sangraha Adhyaya | III | | NO | NO | NO |
| | | nhita – Su | itrasthan | (1-12 Adhyay | ya): | |
| 17. | CS S 1. Deerghanjiviteeya Adhyaya- | 1 | | YES | YES | YES |
| 18. | CS S 2. Apamarga Tanduliya Adhyaya- | II | - | NO | YES | NO |
| 19. | CS S 3. Aragvadhiya Adhyaya- | II | | NO | YES | NO |
| 20. | CS S 4. Shadvirechana-shatashritiya Adhyaya- | II | | NO | YES | NO |
| 21. | CS S 5. Matrashiteeya Adhyaya- | II | | YES | YES | YES |
| 22. | CS S 6. Tasyashiteeya Adhyaya- | II | 50 | YES | YES | YES |
| 23. | CS S 7. Naveganadharaniya Adhyaya- | II | | YES | YES | YES |
| 24. | CS S 8. Indriyopakramaniya Adhyaya- | II | | YES | YES | YES |
| 25. | CS S 9. Khuddakachatushpada Adhyaya- | II | | YES | YES | YES |
| 26. | S 10. Mahachatushpada Adhyaya- | II | | YES | YES | YES |
| 27. | S 11. Tisraishaniya Adhyaya- | III | | YES | YES | YES |
| 28. | S 12. Vatakalakaliya Adhyaya- | III | | YES | YES | YES |

6 G - Question paper blue print

| A Question Sr. No | B Type of Question | C Question Paper Format 50 marks AH/S 50 Marks CS/S |
|-------------------------|---------------------------|--|
| .Q1 | Multiple choice Questions | 1. Topic number 2 (A.H.Su.Ch.1) |

| | (MCQ) | 2. Topic number 3 (A.H.Su.Ch.2) |
|----|---------------------------------|---|
| | | 3. Topic number 4 (A.H.Su.Ch.3) |
| | 20 Questions | 4. Topic number 5 (A.H.Su.Ch.4) |
| | 1 montr as sh | 5. Topic number 9 (A.H.Su.Ch.8) |
| | 1 mark each | 6. Topic number 10 (A.H.Su.Ch.9) |
| | All compulsory | 7. Topic number 11 (A.H.Su.Ch.10) |
| | 1 | 8. Topic number 12 (A.H.Su.Ch.11) |
| | From Must know part 15 | 9. Topic number 13 (A.H.Su.Ch.12) |
| | MCQ | 10. Topic number 14 (A.H.Su.Ch.13) |
| | From Desirable to know 3 | 11. Topic number 15 (A.H.Su.Ch.14) |
| | MCQ | 12. Topic number 17 (C.S.Su.Ch.1) |
| | From Nice to know 2 MCQ | 13. Topic number 21 (C.S.Su.Ch.5) |
| | | 14. Topic number 22 (C.S.Su.Ch.6) |
| | | 15. Topic number 23 (C.S.Su.Ch.7) |
| | | 16. Topic number 24 (C.S.Su.Ch.8) |
| | | 17. Topic number 25 (C.S.Su.Ch.9) |
| | | 18. Topic number 26 (C.S.Su.Ch.10) |
| | | 19. Topic number 27 (C.S.Su.Ch.11) |
| | | 20. Topic number 28 (C.S.Su.Ch.12) |
| Q2 | Short answer Questions | 1. Topic no. 2 (A.H.Su.Ch.1) / Topic no. 25 (C.S.Su.Ch.9)/ |
| | (SAQ) Eight Questions | Topic number 26 (C.S.Su.Ch.10) |
| | 5 Marks Each | 2. Topic no. 3(A.H.Su.Ch.2) / Topic no. 9(A.H.Su.Ch.8) / |
| | All compulsory | Topic no. 21(C.S.Su.Ch.5) / Topic no. 24 (C.S.Su.Ch.8) |
| | Must know 7, | 3. Topic no. 4 (A.H.Su.Ch.3) / Topic no. 22 (C.S.Su.Ch.6) / |
| | Desirable to Imany 1 | Topic no. 5 (A.H.Su.Ch.4) / Topic no. 23 (C.S.Su.Ch.7)/ |
| | Desirable to know 1 | 4. Topic no. 12 (A.H.Su.Ch.11) / Topic no. 13 |
| | No Questions on Nice to | (A.H.Su.Ch.12)/ Topic no.28 (C.S.Su.Ch.12) |
| | know | 5. Topic no. 17 (C.S.Su.Ch.1) |
| | | 6. Topic no. 6 (A.H.Su.Ch.5)/ Topic no.7 (A.H.Su.Ch.6)/ Topic |
| | | no.18 (C.S.Su.Ch.2)/ Topic no.19 (C.S.Su.Ch.3) / Topic |
| | | no.20 (C.S.Su.Ch.04) / Topic no.16 (A.H.Su.Ch.15) |
| | | 7. Topic no.8 (A.H.Su.Ch.7) /Topic no. 10 (A.H.Su.Ch.9) / |
| | | Topic no.11 (A.H.Su.Ch.10)/ |
| | | 8. Topic no. 14 (A.H.Su.Ch.13) Topic no.15 (A.H.Su.Ch.14)/ |
| | | Topic no. 27 (C.S.Su.Ch.11) |
| Q3 | Long answer Questions | 1. Topic no. 2 (A.H.Su.Ch.1) / Topic no. 17 (C.S.Su.Ch.1)/ |
| | (LAQ) | Topic no. 25 (C.S.Su.Ch.9)/ Topic number 26 |
| | Four Questions | (C.S.Su.Ch.10) |
| | 10 marks each All compulsory | 2. Topic no.3(A.H.Su.Ch.2) / Topic no. 4 (A.H.Su.Ch.3)/ Topic |
| | An compulsory | no. 21(C.S.Su.Ch.5) / Topic no. 22 (C.S.Su.Ch.6) |
| | | |

| | 3. Topic no. 12 (A.H.Su.Ch.11) / Topic no. 13 |
|---|---|
| All questions on Must to know. No Questions on Nice | (A.H.Su.Ch.12)/ Topic no. 14 (A.H.Su.Ch.13)/ Topic no.15 |
| to know and Desirable to | (A.H.Su.Ch.14) / Topic no.28 (C.S.Su.Ch.12) |
| know | 4. Topic no. 9(A.H.Su.Ch.8)/ Topic no. 10 (A.H.Su.Ch.9) / |
| | Topic no.11 (A.H.Su.Ch.10)/ Topic no. 27 (C.S.Su.Ch.11)/ |
| | Topic no.5 (A.H.Su.Ch.4)/ Topic no. 23 (C.S.Su.Ch.7) |
| | |

6 H - Distribution of Practical Exam

Practical 100 Marks - (Viva 75 + Elective 10 (Set-FC) + IA 15) Marks

| SN | | Heads | Marks |
|----|-----|---|-------|
| A | | Viva (75 Marks) | |
| | 1 | Viva on Record Book (of yearly conducted non lecture activities) (Refer Table 5) | 15 |
| | 2 | Viva on Shloka Book and Shloka Recitation (Ref table 3. Recitation) | 10 |
| | 3 | Identification of Tantrayukti Viva on .Introduction to Samhita (ref Table 2: 1) | 15 |
| | 4 | Viva Voce on AH | 15 |
| | 5 | Viva Voce on Ch Su | 15 |
| | 6 | Communication Skill | 05 |
| В | | Internal Assessment | 15 |
| С | | Electives | 10 |
| | Tot | al Marks | 100 |

7. Reference books/Resourses

• Introduction to Samhita

- 1. Ashtanghridayam with the commentaries 'Sarvangasundara' of Arundatta and 'Ayurvedarasayana' of Hemadri, Collated by Dr. Anna Moreshwar Kunte and Krishna Ramchandra Shastri Navre
- 2. Sushruta Samhita by Dr. Ambikadutta Shastri
- 3. Ayurvedeeya Padartha Vijnaan by Prof. C. R. Agnivesh
- 4. Ayurvedeeya Padartha Vijnaan and Ayurvedeeya itihaasam by Prof. C. R. Agnivesh
- 5. Ayurvediya Padarth Vidnyan by Vd. Ranjit Rai Desai
- 6. History of Medicine in India by Aacharya Priyavrat Sharma
- 7. History of Indian Medicine by J. Jolly
- Ashtang Hridaya

- 1. Ashtanghridayam with the commentaries 'Sarvangasundara' of Arundatta and 'Ayurvedarasayana' of Hemadri, Collated by Dr. Anna Moreshwar Kunte and Krishna Ramchandra Shastri Navre
- 2. Ashtanga Hridaya : English commentary by Dr. T. Shreekumar
- 3. Ashtanga Hridaya : English commentary by Dr. Vishwavasu Gaur
- 4. Ashtang Hridayam : English translation by Prof. K.R. Srikantha Murthy
- 5. Ashtanga Hridaya English translation by Vd. Anantram Shastri
- 6. Ashtanga Hridayam by Dr. B. Ramarao
- 7. Illustrated Ashtanga Hridaya text with English Translation by Dr. R. Vidyanath
- 8. Ashtanga Hridaya: Hindi commentary by Lalchanda Vaidya
- 9. Ashtanga Hridaya: Hindi commentary by Vd. B.L.Gaur

Charak Samhita

- 1. Charakasamhita by Agnivesha Revised by Charaka and Dridhbala with the Ayurveda Dipika commentary of Chakrapanidatta Edited by Vaidya Yadavji Trikamji Acharya
- 2. Charak Samhita (English Commentary): Dr. Ram Karan Sharma and Vd. Bhagwan Dash or Aacharya Priyavrata Sharma
- 3. Charak Samhita with translation of Chakrapani commentary by Harishchandra Kushvaha
- 4. Charak Samhita by Aacharya P.V.Sharma
- 5. Charak Samhita (Hindi commentary): Vaidya Jayadev Vidyalankar
- 6. Charak Samhita (Hindi commentary): Vaidya Atridev Vidyalankar
- 7. Charak Samhita (Hindi commentary): Prof. Gorakhanath Chaturvedi and Kashinath Shastri
- 8. Charak Samhita (Hindi commentary): Dr. Brahmanand Tripathi
- 9. Charak Samhita (Hindi commentary): Dr. Ravidatta Tripathi
- 10. Charaka Samhita Ayurveda Dipika Commentary- Hindi translation by Dr. B.L.Gaur
- 11. Legacy of Charak M S Valiathan
- 12. Charak e-Samhita National Institute of Indian Medical Heritage <u>http://niimh.nic.in/ebooks/ecaraka</u>
- 13. Charakasamhitaonline.com- Charak Samhita New Edition (carakasamhitaonline.com)