

## **Faculty of Ayurveda**

**Teaching & Evaluation Scheme:** **Roga Nidan evam Vikriti Vigyan**

**Semester/Year:** Second Year B.A.M.S.

**Program Name:** Bachelor of Ayurvedic Medicine and Surgery

**Effective from Academic Year:** 2023-24

**Subject Code:** AyUG-RN

### **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)-Theory            |     | 150 | 150(LH)  |
| Paper I                             | 60  |     |          |
| Paper II                            | 90  |     |          |
| Non Lecture hours(NLH)-Theory       |     | 300 | 300(NLH) |
| Paper I & II                        | 90  |     |          |
| 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                    |                           |      |          |    |
| 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](mailto: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. Activity-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, self-directed 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.

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

**Table 1- Course learning outcomes and matched PO**

| SR1<br>CO<br>No | A1<br>Course learning Outcomes (CO) AyUG-RN<br>At the end of the course AyUG-RN, the students should be able to-                            | B1<br>Course learning<br>Outcomes matched<br>with program<br>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                                                                         |

| <b>Paper 1 Fundamental Principles of Vikriti Vigyan</b> |                                                                                                                                                                                                                                                                                   |                    |                     |                                 |                                          |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|---------------------------------|------------------------------------------|
| <b>Sr. No</b>                                           | <b>A2<br/>List of Topics</b>                                                                                                                                                                                                                                                      | <b>B2<br/>Term</b> | <b>C2<br/>Marks</b> | <b>D2<br/>Lecture<br/>hours</b> | <b>E2<br/>Non-<br/>Lecture<br/>hours</b> |
| 1                                                       | <b>1. Roga nidana – Pathophysiology and clinical diagnosis</b>                                                                                                                                                                                                                    | 1                  | 43                  | 1                               | 0                                        |
| 2                                                       | <b>2. Pareeksha</b><br>Roga and Rogi Pareeksha                                                                                                                                                                                                                                    | 1                  |                     | 1                               | 0                                        |
| 3                                                       | <b>3. Methods of Rogi pareeksha</b>                                                                                                                                                                                                                                               | 1                  |                     | 4                               | 3                                        |
| 4                                                       | <b>4. Sapeksha nidana - Vyavacchedaka nidana</b><br>Sapeksha nidana - Vyavacchedaka nidana of Ukta/Anukta vyadhi: Methods of differential diagnosis                                                                                                                               | 1                  |                     | 1                               | 0                                        |
| 5                                                       | <b>5. Upashaya/ Anupashaya</b>                                                                                                                                                                                                                                                    | 1                  |                     | 1                               | 0                                        |
| 6                                                       | <b>6. Dosha Vikriti</b><br>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                                                       | <b>7. Doshagati and Rogamarga</b>                                                                                                                                                                                                                                                 | 1                  |                     | 1                               | 0                                        |
| 8                                                       | <b>8. Srotodushti</b><br>Samanya sroto dusti nidana and lakshana                                                                                                                                                                                                                  | 1                  |                     | 1                               | 0                                        |
| 9                                                       | <b>9. Concept of Ama</b><br>A. Samanya nidana, and Samanya lakshana B. Bheda (Anna rasa. Mala sanchaya (Dhatwagni mandya janit). Dosha dushti)                                                                                                                                    | 1                  |                     | 2                               | 0                                        |
| 10                                                      | <b>10. Assessment of Ama</b><br>Sama and nirama dosha lakshana, Pureesha lakshana                                                                                                                                                                                                 | 1                  |                     | 0                               | 1                                        |
| 11                                                      | <b>11. Sthana samshraya – Poorvaroop</b>                                                                                                                                                                                                                                          | 1                  | 49                  | 1                               | 0                                        |
| 12                                                      | <b>12. Dushya dushti</b><br>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                                                      | <b>13. Samprapti</b><br>A. Samprapti bheda B. Vyadhi janma and Vyadhi janya                                                                                                                                                                                                       | 1                  |                     | 1                               | 0                                        |

|    |                                                                                                                                                                                                                                                                                                                                                       |   |   |    |   |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|---|
| 14 | <b>14. Rupa</b><br>Pratyatma/ Samanya/ Vishishta Rupa                                                                                                                                                                                                                                                                                                 | 1 |   | 1  | 0 |
| 15 | <b>15. Vyadhinamakarana</b>                                                                                                                                                                                                                                                                                                                           | 1 |   | 1  | 1 |
| 16 | <b>16. Vyadhi</b><br>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 | <b>17. Ashtanindita (Endocrine disorders)</b>                                                                                                                                                                                                                                                                                                         | 1 |   | 1  | 0 |
| 18 | <b>18. Janapadodhwamsa vikara (Pandemic disorders)</b>                                                                                                                                                                                                                                                                                                | 1 |   | 1  | 0 |
| 19 | <b>19. Nidanarthakara Vyadhi, Vyadhisankara</b>                                                                                                                                                                                                                                                                                                       | 1 |   | 1  | 0 |
| 20 | <b>20. Vyadhikshamatva</b><br>A. Vikaravighata Bhava & Abhava, SatmyaB. Ojus - Bheda – Two types and Four types C. Dosha Paka D. ImmunityE. Healing/repair                                                                                                                                                                                            | 1 |   | 2  | 0 |
| 21 | <b>21. Rogi bala Pareeksha</b>                                                                                                                                                                                                                                                                                                                        | 1 |   | 2  | 1 |
| 22 | <b>22. Dhatu Paka</b><br>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 | <b>23. Infection and Nutritional disorders</b>                                                                                                                                                                                                                                                                                                        | 1 | 8 | 4  | 1 |
| 24 | <b>24. Upadrava</b>                                                                                                                                                                                                                                                                                                                                   | 2 |   | 1  | 0 |
| 25 | <b>25. Arishta</b>                                                                                                                                                                                                                                                                                                                                    | 2 |   | 1  | 0 |
| 26 | <b>26. Vyadhi bala pareeksha</b>                                                                                                                                                                                                                                                                                                                      | 2 |   | 1  | 0 |
| 27 | <b>27. Sadhyasadyatva – Prognosis</b>                                                                                                                                                                                                                                                                                                                 | 2 |   | 1  | 0 |
| 28 | <b>28. Digital health and Artificial intelligence in the context of Roganidana</b>                                                                                                                                                                                                                                                                    | 2 |   | 1  | 1 |

|                    |            |              |              |
|--------------------|------------|--------------|--------------|
| <b>Total Marks</b> | <b>100</b> | <b>60 hr</b> | <b>20 hr</b> |
|--------------------|------------|--------------|--------------|

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

|    |                                                                                                                                                                                                                                                                                                                                                           |   |    |   |   |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|---|---|
| 43 | <b>15. Rajayakshma &amp; Shosha</b>                                                                                                                                                                                                                                                                                                                       | 2 |    | 3 | 0 |
| 44 | <b>16. Common lung disorders</b><br>Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, Bronchiectasis                                                                                                                                                                                                                                    | 2 |    | 1 | 4 |
| 45 | <b>17. Jwara</b><br>Jwarabheda - Doshaja and Agantuja (Abhishanga jwara), Vishama Jwara, Punaravartaka Jwara, Jwara avastha - Ama, Pachyamana and Nirama Jwara                                                                                                                                                                                            | 2 |    | 4 | 1 |
| 46 | <b>18. Masurika – Romantika</b>                                                                                                                                                                                                                                                                                                                           | 2 |    | 1 | 0 |
| 47 | <b>19. Fever</b><br>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 | <b>20. Pandu</b>                                                                                                                                                                                                                                                                                                                                          | 2 |    | 2 | 0 |
| 49 | <b>21. Raktapitta</b>                                                                                                                                                                                                                                                                                                                                     | 2 | 25 | 1 | 1 |
| 50 | <b>22. Hematopoietic diseases</b><br>Anaemia, Nutritional anaemia, Thalassemia, Sickle cell Anaemia, Leukaemia, Thrombocytopenia                                                                                                                                                                                                                          | 2 |    | 1 | 6 |
| 51 | <b>23. Hridroga</b>                                                                                                                                                                                                                                                                                                                                       | 2 |    | 1 | 1 |
| 52 | <b>24. Shotha</b>                                                                                                                                                                                                                                                                                                                                         | 2 |    | 2 | 0 |
| 53 | <b>25. Cardiovascular disorders</b><br>Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure                                                                                                                                                                                                         | 2 |    | 1 | 5 |
| 54 | <b>26. Kamala</b>                                                                                                                                                                                                                                                                                                                                         | 2 |    | 2 | 0 |
| 55 | <b>27. Udara Roga</b>                                                                                                                                                                                                                                                                                                                                     | 2 |    | 2 | 1 |
| 56 | <b>28. Hepatobiliary diseases</b><br>Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Disease, Hepatitis, Jaundice and Ascites                                                                                                                                                                                                                        | 2 |    | 1 | 2 |
| 57 | <b>29. Kushtha - Maha Kushtha &amp; Kshudra Kushtha</b>                                                                                                                                                                                                                                                                                                   | 3 |    | 3 | 1 |

|    | (According to Charaka)                                                                                                                                                                                                                                                                           |   |    |   |   |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|---|---|
| 58 | <b>30. Sheetapitta</b>                                                                                                                                                                                                                                                                           | 3 |    | 1 | 0 |
| 59 | <b>31. Shwitra</b>                                                                                                                                                                                                                                                                               | 3 |    | 1 | 0 |
| 60 | <b>32. Visarpa</b>                                                                                                                                                                                                                                                                               | 3 |    | 2 | 0 |
| 61 | <b>33. Skin diseases</b><br>Allergic disorders - Eczema, Urticaria; Squamous lesions - Psoriasis, Lichen planus; Bullous lesion – Pemphigus and Pemphigoid; Mycotic skin diseases; Leprosy; Vitiligo; Cellulitis                                                                                 | 3 |    | 1 | 6 |
| 62 | <b>34. Galaganda</b>                                                                                                                                                                                                                                                                             | 3 |    | 1 | 0 |
| 63 | <b>35. Thyroid disorders</b><br>Hypothyroidism and hyperthyroidism                                                                                                                                                                                                                               | 3 |    | 1 | 1 |
| 64 | <b>36. Sthoulya – Karshya</b>                                                                                                                                                                                                                                                                    | 3 | 32 | 1 | 0 |
| 65 | <b>37. Obesity</b>                                                                                                                                                                                                                                                                               | 3 |    | 1 | 1 |
| 66 | <b>38. Prameha</b>                                                                                                                                                                                                                                                                               | 3 |    | 2 | 1 |
| 67 | <b>39. Diabetes Mellitus and Pancreatitis</b>                                                                                                                                                                                                                                                    | 3 |    | 1 | 1 |
| 68 | <b>40. Vatavyadhi</b><br>Samanya nidana, Samanya purvarupa, Samanya lakshana                                                                                                                                                                                                                     | 3 |    | 1 | 0 |
| 69 | <b>41. Snayugata vata</b><br>Snayugata vata, Akshepaka – Apatanaka; Ardita, Pakshaghata, Kampavata, Gridhrasi, Vishwachi, Pangutwa                                                                                                                                                               | 3 |    | 4 | 2 |
| 70 | <b>42. Common neurologic and spine disorders</b><br>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 | <b>43. Sandhigatavata and Asthi majja gata vata</b><br>Sandhigatavata, Katigraha, Manyasthambha, Vatakantaka, Avabahuka, Amsashosha                                                                                                                                                              | 3 |    | 1 | 0 |
| 72 | <b>44. Diseases of bone, joints, and muscles</b>                                                                                                                                                                                                                                                 | 3 |    | 1 | 2 |

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

**Table 3: Learning objectives (Theory) of Course**

| <b>Paper 1 Fundamental Principles of Vikriti Vigyan</b>                                                         |                                                                                             |                         |                                                              |                                                                        |                            |                                                  |                                      |                   |                          |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------|------------------------------------------------------------------------|----------------------------|--------------------------------------------------|--------------------------------------|-------------------|--------------------------|
| <b>A3</b><br>Course<br>outcome                                                                                  | <b>B3</b><br>Learning Objective (At the end of the session, the students should be able to) | <b>C3</b><br>Domain/sub | <b>D3</b><br>Must to know / desirable to know / Nice to know | <b>E3</b><br>Level<br>Does/<br>Shows<br>how/<br>Knows<br>how/<br>Knows | <b>F3</b><br>T-L<br>method | <b>G3</b><br>Assessment<br>(Refer abbreviations) | <b>H3</b><br>Formative/<br>summative | <b>I3</b><br>Term | <b>J3</b><br>Integration |
| <b>Topic 1 1. Roga nidana – Pathophysiology and clinical diagnosis</b> (Lecture :1 hours, Non lecture: 0 hours) |                                                                                             |                         |                                                              |                                                                        |                            |                                                  |                                      |                   |                          |
| CO1                                                                                                             | Explain the concept of Roganidana                                                           | CC                      | MK                                                           | KH                                                                     | L&PPT                      | INT                                              | F&S                                  | I                 |                          |
| CO1                                                                                                             | Explain the concept of pathophysiology and clinical diagnosis                               | CC                      | MK                                                           | KH                                                                     | L&PPT                      | O-QZ                                             | F&S                                  | I                 |                          |
| <b>Topic 2 2. Pareeksha</b> (Lecture :1 hours, Non lecture: 0 hours)                                            |                                                                                             |                         |                                                              |                                                                        |                            |                                                  |                                      |                   |                          |
| CO1                                                                                                             | Define and enlist types of pareeksha                                                        | CK                      | MK                                                           | K                                                                      | L&PPT                      | INT,TT-Theory                                    | F&S                                  | I                 |                          |
| CO1                                                                                                             | Describe importance of pareeksha                                                            | CC                      | MK                                                           | KH                                                                     | L&PPT                      | DEB                                              | F&S                                  | I                 |                          |
| CO1                                                                                                             | Explain the concept of rogi pareeksha                                                       | CC                      | MK                                                           | KH                                                                     | L&PPT                      | INT                                              | F&S                                  | I                 |                          |
| CO1                                                                                                             | Enlist rogi pareeksha                                                                       | CK                      | MK                                                           | K                                                                      | L&PPT                      | O-QZ,INT                                         | F&S                                  | I                 |                          |

|                                                                                      |                                                                                                                                                                                                                   |     |    |    |                            |                   |     |   |  |
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| CO1                                                                                  | Describe importance of rogi pareeksha                                                                                                                                                                             | CC  | MK | KH | L&G<br>D                   | DEB               | F&S | I |  |
| CO1                                                                                  | Explain the concept of roga pareeksha                                                                                                                                                                             | CC  | MK | KH | L&PP<br>T                  | INT,TT-<br>Theory | F&S | I |  |
| CO1                                                                                  | Enlist roga pareeksha                                                                                                                                                                                             | CK  | MK | K  | L&PP<br>T                  | INT               | F&S | I |  |
| CO1                                                                                  | Describe importance of roga pareeksha                                                                                                                                                                             | CC  | MK | KH | L&G<br>D                   | T-OBT,DEB         | F&S | I |  |
| CO1                                                                                  | Differentiate between rogi pareeksha and roga pareeksha                                                                                                                                                           | CC  | MK | KH | L&G<br>D                   | T-OBT,M-<br>CHT   | F&S | I |  |
| <b>Topic 3 3. Methods of Rogi pareeksha</b> (Lecture :4 hours, Non lecture: 3 hours) |                                                                                                                                                                                                                   |     |    |    |                            |                   |     |   |  |
| CO1,CO3,CO<br>7,CO8                                                                  | Describe Prashna Pareeksha, Chakshu indriyataha Pareeksha, Srotrendriyataha Pareeksha, Sparshanendriyataha Pareeksha, Ghranendriyataha Pareeksha, and Rasanendriyataha Pareeksha with its clinical interpretation | CC  | MK | SH | L_VC                       | COM               | F&S | I |  |
| CO1,CO3                                                                              | Describe the importance, clinical interpretation and methods of eliciting Nadi Pareeksha                                                                                                                          | CAN | MK | KH | L&G<br>D,D_<br>BED         | COM               | F&S | I |  |
| CO1                                                                                  | Describe the importance and clinical interpretation of Mutra Pareeksha                                                                                                                                            | CC  | MK | KH | L&G<br>D                   | COM               | F&S | I |  |
| CO1                                                                                  | Describe the methods of performing Tailabindu Pareeksha                                                                                                                                                           | CC  | MK | KH | L_VC                       | WP,COM            | F&S | I |  |
| CO1,CO3                                                                              | Describe the importance & clinical interpretation of Mala Pareeksha, Jihwa Pareeksha, Shabda Pareeksha, Sparsha Pareeksha, Druk Pareeksha, Akriti Pareeksha                                                       | CAN | MK | KH | L&G<br>D,SD<br>L,D_<br>BED | COM               | F&S | I |  |

| <b>Topic 4 4. Sapeksha nidana - Vyavacchedaka nidana</b> (Lecture :1 hours, Non lecture: 0 hours) |                                                                                                                                                                                           |    |    |    |            |               |     |   |                         |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|------------|---------------|-----|---|-------------------------|
| CO1,CO2,CO3,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 | MK | KH | L&G D,CB L | T-OBT,M-CHT   | F&S | I | 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 | KH | L&PP T,IBL | INT           | F&S | I |                         |
| <b>Topic 5 5. Upashaya/ Anupashaya</b> (Lecture :1 hours, Non lecture: 0 hours)                   |                                                                                                                                                                                           |    |    |    |            |               |     |   |                         |
| CO1                                                                                               | Define Upashaya and enlist synonyms of Upashaya                                                                                                                                           | CK | MK | K  | L&PP T     | INT           | F&S | I |                         |
| CO1                                                                                               | Define Anupashaya and enlist synonyms of Anupashaya                                                                                                                                       | CK | MK | K  | L&PP T     | INT,TT-Theory | F&S | I |                         |
| CO1                                                                                               | Enumerate and explain the eighteen types of Upashaya with relevant examples                                                                                                               | CC | MK | KH | L&PP T     | WP,INT        | F&S | I |                         |
| <b>Topic 6 6. Dosha Vikriti</b> (Lecture :3 hours, Non lecture: 2 hours)                          |                                                                                                                                                                                           |    |    |    |            |               |     |   |                         |
| CO1                                                                                               | Define Hetu                                                                                                                                                                               | CK | MK | K  | L&PP T     | INT,TT-Theory | F&S | I |                         |
| CO1                                                                                               | Enlist and define synonyms of Hetu                                                                                                                                                        | CK | MK | K  | L&PP T     | QZ            | F&S | I |                         |
| CO1                                                                                               | Enumerate and enlist classification of Nidana (Vyadhi janaka and Vyadhi bodhaka)                                                                                                          | CK | MK | K  | L&PP T     | M-CHT         | F&S | I |                         |
| CO1                                                                                               | Enumerate and describe types of Vyadhi Janaka Hetu                                                                                                                                        | CC | MK | KH | L&PP       | INT           | F&S | I |                         |

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

|                                                                                    |                                                                                                                                            |    |    |    |           |        |     |   |  |
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|                                                                                    |                                                                                                                                            |    |    |    | T         |        |     |   |  |
| CO1                                                                                | Enlist the 63 combination of Dosha                                                                                                         | CC | MK | KH | L&PP<br>T | O-GAME | F&S | I |  |
| CO1                                                                                | Describe Samsargaja Dosha Dushti                                                                                                           | CC | MK | KH | L&PP<br>T | INT    | F&S | I |  |
| CO1                                                                                | Describe Sama Sannipata and Vishama Sannipata dosha                                                                                        | CC | MK | KH | L&PP<br>T | INT    | F&S | I |  |
| CO1                                                                                | Enlist the different stages of Paridhavamana Dosha                                                                                         | CK | MK | K  | L&PP<br>T | INT    | F&S | I |  |
| CO1                                                                                | Explain Paridhavamana dosha with types and examples                                                                                        | CC | MK | KH | L&PP<br>T | COM    | F&S | I |  |
| CO1                                                                                | Explain Nityasamshleshita (Leena) dosha and Paricchedita dosha with examples                                                               | CC | MK | KH | L&PP<br>T | INT    | F&S | I |  |
| <b>Topic 7 7. Doshagati and Rogamarga</b> (Lecture :1 hours, Non lecture: 0 hours) |                                                                                                                                            |    |    |    |           |        |     |   |  |
| CO1                                                                                | Enumerate and describe Doshagati and its utility in prognosis with relevant examples                                                       | CC | MK | KH | L&G<br>D  | INT    | F&S | I |  |
| CO1                                                                                | Describe Urdhwa gati, Adho gati, Tiryaga gati, Vriddhi, Kshaya, Sthana, Koshta, Shakha, Sandhi asthi marma with illustrations and examples | CC | MK | KH | L&G<br>D  | COM    | F&S | I |  |
| CO1                                                                                | Describe Koshta to Shakhagati of dosha and Shakha to Koshtagati of dosha with illustration                                                 | CC | MK | KH | L&G<br>D  | COM    | F&S | I |  |
| CO1                                                                                | Enumerate and describe Rogamarga and its utility in prognosis with relevant examples                                                       | CC | MK | KH | L&G<br>D  | O-QZ   | F&S | I |  |
| <b>Topic 8 8. Srotodushti</b> (Lecture :1 hours, Non lecture: 0 hours)             |                                                                                                                                            |    |    |    |           |        |     |   |  |

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

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

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

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

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

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

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| CO1                                                                    | Describe Artavavaha Sroto Viddha Lakshana                                           | CC          | MK | KH | L&PP<br>T | QZ   | F&S | I |  |
| CO1                                                                    | Describe features of Upadhatu dushti, Mala dushti, Indriya dushti, and Manas dushti | CC          | MK | KH | L&G<br>D  | INT  | F&S | I |  |
| CO1                                                                    | Describe features of Avayava dusti with relevant examples                           | CC          | MK | KH | L&PP<br>T | INT  | F&S | I |  |
| CO5                                                                    | Identify and interpret the specific Sroto Dushti in the patients                    | PSY-<br>GUD | MK | SH | SDL       | T-CS | F&S | I |  |
| <b>Topic 13 13. Samprapti</b> (Lecture :1 hours, Non lecture: 0 hours) |                                                                                     |             |    |    |           |      |     |   |  |
| CO1                                                                    | Define Samprapti and enumerate synonyms                                             | CK          | MK | K  | L&PP<br>T | WP   | F&S | I |  |
| CO1                                                                    | Enlist and describe types of Samprapti with examples                                | CK          | MK | K  | L&PP<br>T | INT  | F&S | I |  |
| CO1                                                                    | Describe Vyadhi Janma and Vyadhi Janya Samprapti with examples                      | CC          | MK | KH | L&PP<br>T | INT  | F&S | I |  |
| <b>Topic 14 14. Rupa</b> (Lecture :1 hours, Non lecture: 0 hours)      |                                                                                     |             |    |    |           |      |     |   |  |
| CO1                                                                    | Define, enlist and describe different types of Roopa                                | CC          | MK | KH | L&PP<br>T | INT  | F&S | I |  |
| CO1                                                                    | Describe the importance of Roopa                                                    | CC          | MK | KH | L&G<br>D  | DEB  | F&S | I |  |
| CO1                                                                    | Define Pratyatma Lakshana with suitable examples                                    | CK          | MK | K  | L&PP<br>T | INT  | F&S | I |  |
| CO1                                                                    | Differentiate between Vyadhi and Lakshana.                                          | CC          | MK | KH | L&G<br>D  | INT  | F&S | I |  |

| <b>Topic 15 15. Vyadhinamakarana</b> (Lecture :1 hours, Non lecture: 1 hours)                   |                                                                                                                                                                                                                                                                                                                                                    |             |    |    |            |       |     |   |      |
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| CO1                                                                                             | Describe the basis of Vyadhi Namakarana with suitable examples                                                                                                                                                                                                                                                                                     | CK          | MK | K  | L          | QZ    | F&S | I |      |
| 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 | KH | L&G<br>D,D | INT   | F&S | I |      |
| CO6                                                                                             | Operate NAMASTE (National AYUSH Morbidity and Standardized Terminologies Electronic Portal) portal                                                                                                                                                                                                                                                 | PSY-<br>GUD | DK | SH | D          | P-PRF | F&S | I |      |
| <b>Topic 16 16. Vyadhi</b> (Lecture :4 hours, Non lecture: 0 hours)                             |                                                                                                                                                                                                                                                                                                                                                    |             |    |    |            |       |     |   |      |
| CO1                                                                                             | Define & enlist synonyms of Vyadhi                                                                                                                                                                                                                                                                                                                 | CK          | MK | K  | L&PP<br>T  | INT   | F&S | I |      |
| CO1                                                                                             | Enlist types of Vyadhi                                                                                                                                                                                                                                                                                                                             | CK          | MK | K  | L&PP<br>T  | INT   | F&S | I |      |
| 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          | MK | KH | L&PP<br>T  | CL-PR | F&S | I |      |
| <b>Topic 17 17. Ashtanindita (Endocrine disorders)</b> (Lecture :1 hours, Non lecture: 0 hours) |                                                                                                                                                                                                                                                                                                                                                    |             |    |    |            |       |     |   |      |
| CO1                                                                                             | Enlist and explain the Ashtanindita                                                                                                                                                                                                                                                                                                                | CC          | DK | KH | L&PP<br>T  | INT   | F&S | I |      |
| CO1                                                                                             | Describe the importance of Ashtanindita                                                                                                                                                                                                                                                                                                            | CC          | DK | KH | L&G<br>D   | DEB   | F&S | I |      |
| CO1,CO2                                                                                         | Correlate and describe the features of Hormonal/ Endocrinal                                                                                                                                                                                                                                                                                        | CE          | DK | KH | L&G        | COM   | F&S | I | V-BL |

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

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| CO2                                                                              | Describe pathophysiology of Healing with primary and secondary intention and Repair mechanism.                                                                                                                                                                                                  | CC | MK | KH | L_VC      | CL-PR | F&S | I |  |
| CO1                                                                              | Define Satmya and explain its types                                                                                                                                                                                                                                                             | CC | MK | KH | L&PP<br>T | INT   | F&S | I |  |
| CO2                                                                              | Define Immunity and describe classification of Immunity                                                                                                                                                                                                                                         | CC | MK | KH | SDL       | CL-PR | F&S | I |  |
| CO2                                                                              | Explain different mechanisms involved in Immunity                                                                                                                                                                                                                                               | CC | MK | KH | SDL       | CL-PR | F&S | I |  |
| <b>Topic 21 21. Rogi bala Pareeksha</b> (Lecture :2 hours, Non lecture: 1 hours) |                                                                                                                                                                                                                                                                                                 |    |    |    |           |       |     |   |  |
| CO1                                                                              | Describe the importance of Rogi bala Pareeksha                                                                                                                                                                                                                                                  | CC | MK | KH | L&G<br>D  | DEB   | F&S | I |  |
| 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 | MK | KH | L&PP<br>T | INT   | F&S | I |  |
| <b>Topic 22 22. Dhatu Paka</b> (Lecture :12 hours, Non lecture: 1 hours)         |                                                                                                                                                                                                                                                                                                 |    |    |    |           |       |     |   |  |
| CO1                                                                              | Describe Dhatupaka features with examples                                                                                                                                                                                                                                                       | CC | MK | KH | L&PP<br>T | INT   | F&S | I |  |
| CO1                                                                              | Describe different stages of Ojo dusti                                                                                                                                                                                                                                                          | CK | MK | K  | L&PP<br>T | INT   | F&S | I |  |
| CO2                                                                              | Define Asatmya                                                                                                                                                                                                                                                                                  | CK | MK | K  | L&PP<br>T | O-QZ  | F&S | I |  |
| CO2                                                                              | Define Hypersensitivity                                                                                                                                                                                                                                                                         | CK | MK | K  | L&PP<br>T | QZ    | F&S | I |  |
| CO2                                                                              | Describe four types of Hypersensitivity with suitable examples                                                                                                                                                                                                                                  | CC | MK | KH | L_VC      | CL-PR | F&S | I |  |

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

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

| <b>Topic 26 26. Vyadhi bala pareeksha</b> (Lecture :1 hours, Non lecture: 0 hours)                                                   |                                                                                                                                                                                                                                                                                   |     |    |    |           |     |     |    |  |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|-----------|-----|-----|----|--|
| CO1                                                                                                                                  | Describe Vikrititaha Pareeksha with its importance                                                                                                                                                                                                                                | CC  | DK | KH | L&G<br>D  | DEB | F&S | II |  |
| CO1                                                                                                                                  | Describe the parameters to be assessed for Vyadhi bala - Exposure to Nidana, Samprapti, Poorvaroop, 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 | KH | L&G<br>D  | DEB | F&S | II |  |
| <b>Topic 27 27. Sadhyasadyatva – Prognosis</b> (Lecture :1 hours, Non lecture: 0 hours)                                              |                                                                                                                                                                                                                                                                                   |     |    |    |           |     |     |    |  |
| CO1                                                                                                                                  | Enumerate and describe the features of sadhyasadyatva                                                                                                                                                                                                                             | CC  | MK | KH | L&PP<br>T | INT | F&S | II |  |
| CO1                                                                                                                                  | Analyse the components of Vyadhi from Sadhyasadyatva                                                                                                                                                                                                                              | CAN | MK | KH | L&G<br>D  | INT | F&S | II |  |
| <b>Topic 28 28. Digital health and Artificial intelligence in the context of Roganidana</b> (Lecture :1 hours, Non lecture: 1 hours) |                                                                                                                                                                                                                                                                                   |     |    |    |           |     |     |    |  |
| CO6                                                                                                                                  | Define and describe the scope of Digital health and Artificial intelligence in Ayurveda Diagnosis and Prognosis                                                                                                                                                                   | CC  | NK | KH | BL        | COM | F&S | II |  |
| CO6                                                                                                                                  | Explain need of Instrumentation and Biosensors for diagnosis and prognosis in Ayurveda.                                                                                                                                                                                           | CC  | NK | KH | BL        | INT | F&S | II |  |
| CO6                                                                                                                                  | Justify scope of Diagnostic tool development in Ayurveda and their implementation.                                                                                                                                                                                                | CE  | NK | KH | BL        | INT | F&S | II |  |

| <b>Paper 2 Vyadhi Vigyan, contemporary understanding and updates</b> |                                                                          |                   |                           |                    |                  |                         |                   |                   |                     |
|----------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------|---------------------------|--------------------|------------------|-------------------------|-------------------|-------------------|---------------------|
| <b>A3</b><br>Course                                                  | <b>B3</b><br>Learning Objective (At the end of the session, the students | <b>C3</b><br>Doma | <b>D3</b><br>Must to know | <b>E3</b><br>Level | <b>F3</b><br>T-L | <b>G3</b><br>Assessment | <b>H3</b><br>Form | <b>I3</b><br>Term | <b>J3</b><br>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 |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------|------------------------------------|------------------------------------|---------|-----------------------|-------------------|----|-------|
| <b>Topic 1 1. Agnimandya – Ajeerna, Anaha, Adhmana, Atopa</b> (Lecture :1 hours, Non lecture: 0 hours) |                                                                                                    |        |                                    |                                    |         |                       |                   |    |       |
| CO1                                                                                                    | Define Anaha                                                                                       | CK     | MK                                 | K                                  | L&PP T  | QZ                    | F&S               | II |       |
| CO1                                                                                                    | Enlist types of Anaha                                                                              | CK     | MK                                 | K                                  | L&PP T  | QZ                    | F&S               | II |       |
| CO1,CO5                                                                                                | Describe Adhmana and Atopa                                                                         | CC     | MK                                 | KH                                 | L&PP T  | INT                   | F&S               | II |       |
| <b>Topic 2 2. Chhardi</b> (Lecture :1 hours, Non lecture: 0 hours)                                     |                                                                                                    |        |                                    |                                    |         |                       |                   |    |       |
| CO1                                                                                                    | Define Chhardi                                                                                     | CK     | DK                                 | K                                  | L&PP T  | QZ                    | F&S               | II |       |
| CO1                                                                                                    | Describe hetu and samprapti of Chhardi.                                                            | CC     | DK                                 | KH                                 | L&G D   | INT                   | F&S               | II |       |
| CO1                                                                                                    | Enlist bheda of Chhardi                                                                            | CK     | DK                                 | K                                  | L&PP T  | QZ                    | F&S               | II |       |
| CO1                                                                                                    | Describe purvaroop, samanya lakshana, vishishta lakshana, upadrava and sadhya asadhyata of Chhardi | CC     | DK                                 | KH                                 | L&PP T  | INT                   | F&S               | II |       |
| <b>Topic 3 3. Amlapitta</b> (Lecture :2 hours, Non lecture: 0 hours)                                   |                                                                                                    |        |                                    |                                    |         |                       |                   |    |       |

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| CO1                                                                               | Define Amlapitta                                                                            | CK | MK | K  | L&PP<br>T    | QZ    | F&S | II |  |
| CO1                                                                               | Describe hetu and samprapti of Amlapitta                                                    | CC | MK | KH | L&G<br>D     | M-CHT | F&S | II |  |
| CO1                                                                               | Enlist bheda of Amlapitta                                                                   | CK | MK | K  | L&PP<br>T    | QZ    | F&S | II |  |
| CO1                                                                               | Describe purvaroop, samanya lakshana, vishishta lakshana, and sadhya asadhyata of Amlapitta | CC | MK | KH | L&PP<br>T    | INT   | F&S | II |  |
| <b>Topic 4 4. Shoola</b> (Lecture :1 hours, Non lecture: 0 hours)                 |                                                                                             |    |    |    |              |       |     |    |  |
| CO1                                                                               | Define Shoola                                                                               | CK | MK | K  | L&PP<br>T    | QZ    | F&S | II |  |
| CO1                                                                               | Enlist Shoola bheda                                                                         | CK | MK | K  | L&PP<br>T    | QZ    | F&S | II |  |
| CO1,CO5                                                                           | Describe and differentiate Parinama shoola and Annadrava shoola                             | CC | MK | KH | L&PP<br>T    | INT   | F&S | II |  |
| <b>Topic 5 5. Atisara, and Pravahika</b> (Lecture :3 hours, Non lecture: 1 hours) |                                                                                             |    |    |    |              |       |     |    |  |
| CO1                                                                               | Describe pratyatma lakshana of Atisara                                                      | CC | MK | KH | L&PP<br>T    | QZ    | F&S | II |  |
| CO1                                                                               | Describe hetu and samprapti of Atisara                                                      | CC | MK | KH | L&G<br>D     | INT   | F&S | II |  |
| CO1                                                                               | Enlist bheda of Atisara                                                                     | CK | MK | KH | L&PP<br>T    | QZ    | F&S | II |  |
| CO1                                                                               | Describe purvaroop of Atisara                                                               | CC | MK | KH | L&PP<br>T,CB | INT   | F&S | II |  |

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

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

|                                                                                |                                                                                                                                                             |         |    |    |                      |      |     |    |  |
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|                                                                                | Alasaka and Vilambika                                                                                                                                       |         |    |    | T                    |      |     |    |  |
| <b>Topic 8 8. Common GIT diseases</b> (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 | KH | RP,T<br>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 | II |  |
| 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<br>D,LRI<br>,D_L | T-CS | F&S | II |  |
| <b>Topic 9 9. Mutrakrichhra</b> (Lecture :2 hours, Non lecture: 1 hours)       |                                                                                                                                                             |         |    |    |                      |      |     |    |  |
| CO1                                                                            | Explain pratyatma lakshana of Mutrakrichhra                                                                                                                 | CC      | MK | KH | L&PP<br>T            | PUZ  | F&S | II |  |
| CO1                                                                            | Describe hetu and samprapti of Mutrakrichhra                                                                                                                | CC      | MK | KH | L&G<br>D             | INT  | F&S | II |  |
| CO1                                                                            | Enlist bheda of Mutrakrichhra                                                                                                                               | CK      | MK | KH | L&PP<br>T            | QZ   | F&S | II |  |
| CO1,CO5                                                                        | Describe vishishta lakshana of Mutrakrichhra                                                                                                                | CC      | MK | KH | L&PP<br>T,CB<br>L    | INT  | F&S | II |  |
| <b>Topic 10 10. Mutraghata</b> (Lecture :3 hours, Non lecture: 1 hours)        |                                                                                                                                                             |         |    |    |                      |      |     |    |  |
| CO1                                                                            | Define Mutraghata                                                                                                                                           | CK      | MK | K  | L&PP<br>T            | QZ   | F&S | II |  |

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| CO1                                                                                  | Enlist conditions of Mutra shoshana and Mutra pratihanyate among different types of Mutraghata                                                                                 | CK          | MK | K  | L&G<br>D          | INT  | F&S | II |  |
| CO1                                                                                  | Describe different types of Mutraghata                                                                                                                                         | CC          | MK | KH | L&PP<br>T,PB<br>L | INT  | F&S | II |  |
| CO1                                                                                  | Differentiate Mutrakrichra and Mutraghata                                                                                                                                      | CC          | MK | KH | L&G<br>D,PB<br>L  | T-CS | F&S | II |  |
| <b>Topic 11 11. Common Urinary diseases</b> (Lecture :1 hours, Non lecture: 6 hours) |                                                                                                                                                                                |             |    |    |                   |      |     |    |  |
| CO2                                                                                  | Describe the clinical features of Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury and Chronic Kidney Disease              | CC          | DK | KH | L&G<br>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-<br>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 | CAP         | DK | SH | L&G<br>D,LRI      | T-CS | F&S | II |  |
| <b>Topic 12 12. Hikka</b> (Lecture :1 hours, Non lecture: 0 hours)                   |                                                                                                                                                                                |             |    |    |                   |      |     |    |  |
| CO1                                                                                  | Describe pratyatma lakshana, hetu, and samprapti of Hikka                                                                                                                      | CC          | NK | KH | L&PP<br>T         | PUZ  | F&S | II |  |
| CO1                                                                                  | Describe cardinal features of Pancha Hikka                                                                                                                                     | CC          | NK | KH | L&PP<br>T         | INT  | F&S | II |  |
| <b>Topic 13 13. Shwasa</b> (Lecture :2 hours, Non lecture: 1 hours)                  |                                                                                                                                                                                |             |    |    |                   |      |     |    |  |
|                                                                                      |                                                                                                                                                                                |             |    |    |                   |      |     |    |  |

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

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

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

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|                                                                    |                                                                                                                                                                                                                                                                                                                                                  |    |    |    | T           |        |     |    |  |
| CO1                                                                | Describe samprapti of Masurika                                                                                                                                                                                                                                                                                                                   | CC | NK | KH | L&G<br>D    | INT    | F&S | II |  |
| CO1                                                                | Enlist bheda of Masurika                                                                                                                                                                                                                                                                                                                         | CC | NK | KH | L&PP<br>T   | QZ     | F&S | II |  |
| CO1                                                                | Explain the avasthika lakshana of Masurika                                                                                                                                                                                                                                                                                                       | CC | NK | KH | L&PP<br>T   | INT    | F&S | II |  |
| CO1                                                                | Enlist features of Romantika                                                                                                                                                                                                                                                                                                                     | CK | NK | K  | L&PP<br>T   | QZ     | F&S | II |  |
| <b>Topic 19 19. Fever</b> (Lecture :1 hours, Non lecture: 6 hours) |                                                                                                                                                                                                                                                                                                                                                  |    |    |    |             |        |     |    |  |
| 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 | KH | L_VC<br>,FC | WP,INT | F&S | II |  |
| 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                                                                                                                                                      | CC | DK | KH | L_VC<br>,RP | T-CS   | F&S | II |  |
| CO2                                                                | Describe the common regional disorders presenting with fever                                                                                                                                                                                                                                                                                     | CC | DK | KH | L&G<br>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                                                                                                   | CC | DK | KH | TUT         | INT    | F&S | II |  |

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| 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 | II |  |
| 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 | CAP     | DK | SH | LRI       | T-CS | F&S | II |  |
| <b>Topic 20 20. Pandu</b> (Lecture :2 hours, Non lecture: 0 hours) |                                                                                                                                                                                                                                                                         |         |    |    |           |      |     |    |  |
| CO1                                                                | Describe pratyatma lakshana of Pandu                                                                                                                                                                                                                                    | CC      | MK | KH | L&PP<br>T | PUZ  | F&S | II |  |
| CO1                                                                | Describe hetu and samprapti of Pandu                                                                                                                                                                                                                                    | CC      | MK | KH | L&PP<br>T | INT  | F&S | II |  |
| CO1                                                                | Enlist bheda of Pandu                                                                                                                                                                                                                                                   | CC      | MK | KH | L&PP<br>T | QZ   | F&S | II |  |
| CO1                                                                | Describe purvaroop of Pandu                                                                                                                                                                                                                                             | CC      | MK | KH | L&PP<br>T | INT  | F&S | II |  |
| CO1                                                                | Enlist upadrava of Pandu                                                                                                                                                                                                                                                | CK      | MK | K  | L&PP<br>T | QZ   | F&S | II |  |
| CO1                                                                | Describe sadhya asadhyata of Pandu                                                                                                                                                                                                                                      | CC      | MK | KH | L&PP<br>T | INT  | F&S | II |  |
| CO1                                                                | Explain Pancha pandu                                                                                                                                                                                                                                                    | CC      | MK | KH | L&PP<br>T | T-CS | F&S | II |  |

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| CO1                                                                                 | Differentiate Doshaja pandu                                                                                                                    | CC  | MK | KH | L&G<br>D         | CL-PR | F&S | II |  |
| <b>Topic 21 21. Raktapitta</b> (Lecture :1 hours, Non lecture: 1 hours)             |                                                                                                                                                |     |    |    |                  |       |     |    |  |
| CO1                                                                                 | Define Raktapitta and mention the rakta pravrutti marga                                                                                        | CK  | MK | K  | L&PP<br>T        | QZ    | F&S | II |  |
| CO1                                                                                 | Explain the swabhava of Raktapitta                                                                                                             | CC  | MK | KH | DIS              | INT   | F&S | II |  |
| CO1                                                                                 | Enlist bheda of Raktapitta                                                                                                                     | CK  | MK | KH | L&PP<br>T        | QZ    | F&S | II |  |
| CO1                                                                                 | Describe nidana, samprapti, purvaroop, vishishta lakshana of Raktapitta                                                                        | CC  | MK | KH | L&G<br>D         | T-CS  | F&S | II |  |
| CO1                                                                                 | Enlist upadrava of Raktapitta                                                                                                                  | CK  | MK | KH | L&PP<br>T        | PUZ   | F&S | II |  |
| CO1                                                                                 | Describe sadhya asadhyata of Raktapitta                                                                                                        | CC  | MK | KH | DIS              | INT   | F&S | II |  |
| <b>Topic 22 22. Hematopoietic diseases</b> (Lecture :1 hours, Non lecture: 6 hours) |                                                                                                                                                |     |    |    |                  |       |     |    |  |
| CO2                                                                                 | Describe the clinical features of anaemia, nutritional anaemia, thalassemia, sickle cell anaemia, leukaemia, and thrombocytopenia              | CC  | DK | KH | L_VC<br>,RP      | WP    | F&S | II |  |
| CO4                                                                                 | Order and interpret relevant investigations of anaemia, nutritional anaemia, thalassemia, sickle cell anaemia, leukaemia, and thrombocytopenia | CAP | DK | KH | L&G<br>D,LRI     | T-CS  | F&S | II |  |
| CO2                                                                                 | Describe the differential diagnosis of anaemia, nutritional anaemia, thalassemia, sickle cell anaemia, leukaemia, and thrombocytopenia         | CC  | DK | KH | L&G<br>D,PB<br>L | PRN   | F&S | II |  |
| <b>Topic 23 23. Hridroga</b> (Lecture :1 hours, Non lecture: 1 hours)               |                                                                                                                                                |     |    |    |                  |       |     |    |  |

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

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| 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 | KH | L&G D,LRI | O-QZ  | F&S | II |  |
| <b>Topic 26 26. Kamala</b> (Lecture :2 hours, Non lecture: 0 hours)     |                                                                                                                                                           |         |    |    |           |       |     |    |  |
| CO1                                                                     | Define Kamala                                                                                                                                             | CK      | MK | K  | L&PP T    | QZ    | F&S | II |  |
| CO1                                                                     | Describe hetu and samprapti of Kamala                                                                                                                     | CC      | MK | KH | L&G D     | INT   | F&S | II |  |
| CO1                                                                     | Classify Kamala on the basis of vidhi samprapti of Kamala                                                                                                 | CC      | MK | KH | L&PP T    | INT   | F&S | II |  |
| CO1                                                                     | Differentiate Koshta shakhashrita and Shakhashrita Kamala                                                                                                 | CC      | MK | KH | DIS       | PRN   | F&S | II |  |
| CO1                                                                     | Enlist upadrava of Kamala                                                                                                                                 | CK      | MK | KH | L&PP T    | QZ    | F&S | II |  |
| CO1                                                                     | Describe sadhya asadhyata of Kamala                                                                                                                       | CC      | MK | KH | TUT       | M-CHT | F&S | II |  |
| CO1,CO5                                                                 | Describe Swatantra-Paratantra Kamala, Alpapitta-Bahupitta Kamala                                                                                          | CC      | MK | KH | L&PP T    | INT   | F&S | II |  |
| <b>Topic 27 27. Udara Roga</b> (Lecture :2 hours, Non lecture: 1 hours) |                                                                                                                                                           |         |    |    |           |       |     |    |  |
| CO1                                                                     | Explain pratyatma lakshana of Udara                                                                                                                       | CC      | MK | KH | L&PP T    | PUZ   | F&S | II |  |
| CO1                                                                     | Describe hetu and samprapti of Udara                                                                                                                      | CC      | MK | KH | L&G D     | WP    | F&S | II |  |

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| CO1                                                                                                                              | Enlist bheda of Udara                                                                                                                        | CK          | MK | K  | L&PP<br>T          | QZ    | F&S | II  |  |
| CO1,CO5                                                                                                                          | Describe purvaroop, samanya lakshana and sadhya asadhyata of Udara                                                                           | CC          | MK | KH | L&PP<br>T          | T-CS  | F&S | II  |  |
| CO1                                                                                                                              | Explain avastha bheda of Udara                                                                                                               | CC          | MK | KH | DIS                | PRN   | F&S | II  |  |
| CO1,CO5                                                                                                                          | Differentiate Doshaja udara                                                                                                                  | CC          | MK | KH | L&G<br>D           | M-CHT | F&S | II  |  |
| CO1,CO5                                                                                                                          | Explain Vishishta lakshana of Baddha gudodara, Pleehodara, Jalodara and Chidrodara                                                           | CC          | MK | KH | L&PP<br>T          | M-CHT | F&S | II  |  |
| <b>Topic 28 28. Hepatobiliary diseases</b> (Lecture :1 hours, Non lecture: 2 hours)                                              |                                                                                                                                              |             |    |    |                    |       |     |     |  |
| CO2,CO5                                                                                                                          | Describe the clinical features of Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Disease, Hepatitis, Jaundice and Ascites              | CC          | DK | KH | L_VC<br>,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-<br>GUD | DK | SH | L_VC<br>,D_B<br>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<br>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 | KH | L&G<br>D,PB<br>L   | M-CHT | F&S | II  |  |
| <b>Topic 29 29. Kushtha - Maha Kushtha &amp; Kshudra Kushtha (According to Charaka)</b> (Lecture :3 hours, Non lecture: 1 hours) |                                                                                                                                              |             |    |    |                    |       |     |     |  |
| CO1                                                                                                                              | Define Kushtha                                                                                                                               | CK          | MK | K  | L&PP<br>T          | O-QZ  | F&S | III |  |

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| CO1                                                                      | Describe hetu and samprapti of Kushtha                        | CC | MK | KH | L&G<br>D     | COM    | F&S | III |  |
| CO1                                                                      | Enlist bheda of Maha Kushtha & Kshudra Kushtha                | CK | MK | K  | L&PP<br>T    | O-QZ   | F&S | III |  |
| CO1                                                                      | Describe purvaroop of Kushtha                                 | CC | MK | KH | L&G<br>D     | INT    | F&S | III |  |
| CO1,CO5                                                                  | Describe vishishta lakshana of Maha Kushtha & Kshudra Kushtha | CC | MK | KH | L&PP<br>T,CD | O-GAME | F&S | III |  |
| CO1,CO5                                                                  | Describe dosha anusara Kushtha lakshana                       | CC | MK | KH | L&G<br>D     | M-POS  | F&S | III |  |
| CO1                                                                      | Describe sadhya asadhyata of Maha Kushtha & Kshudra Kushtha   | CC | MK | KH | L&PP<br>T    | O-QZ   | F&S | III |  |
| CO1,CO5                                                                  | Differentiate Maha kushtha & Kshudra kushtha                  | CC | MK | KH | DIS          | CL-PR  | F&S | III |  |
| <b>Topic 30 30. Sheetapitta</b> (Lecture :1 hours, Non lecture: 0 hours) |                                                               |    |    |    |              |        |     |     |  |
| CO1                                                                      | Describe Sheetapitta samprapti                                | CC | MK | KH | L&PP<br>T    | M-CHT  | F&S | III |  |
| CO1,CO5                                                                  | Describe Sheetapitta and Udarda lakshana                      | CC | MK | KH | L&PP<br>T    | QZ     | F&S | III |  |
| CO1                                                                      | Describe Kotha lakshana                                       | CC | MK | KH | L&PP<br>T    | QZ     | F&S | III |  |
| CO1,CO5                                                                  | Differentiate Sheetapitta and Udarda                          | CC | MK | KH | DIS          | QZ     | F&S | III |  |
| <b>Topic 31 31. Shwitra</b> (Lecture :1 hours, Non lecture: 0 hours)     |                                                               |    |    |    |              |        |     |     |  |
| CO1                                                                      | Enlist types of Shwitra                                       | CK | MK | K  | L&PP         | O-QZ   | F&S | III |  |

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| CO1,CO5                                                                    | Describe lakshana and sadhya asadhyata of Shwitra                                                                                                                                                                             | CC          | MK | KH | L&PP<br>T          | INT   | F&S | III |  |
| <b>Topic 32 32. Visarpa</b> (Lecture :2 hours, Non lecture: 0 hours)       |                                                                                                                                                                                                                               |             |    |    |                    |       |     |     |  |
| CO1                                                                        | Define Visarpa                                                                                                                                                                                                                | CK          | MK | K  | L&PP<br>T          | O-QZ  | F&S | III |  |
| CO1                                                                        | Describe hetu and samprapti of Visarpa                                                                                                                                                                                        | CC          | MK | KH | L&G<br>D           | M-CHT | F&S | III |  |
| CO1                                                                        | Enlist bheda of Visarpa                                                                                                                                                                                                       | CK          | MK | K  | L&PP<br>T          | QZ    | F&S | III |  |
| CO1,CO5                                                                    | Describe purvaroop of visarpa, features of Bahya and Abhyantara visarpa and sadhya asadhyata of Visarpa                                                                                                                       | CC          | MK | KH | L&PP<br>T          | PRN   | F&S | III |  |
| CO1,CO5                                                                    | Differentiate Doshaja Visarpa                                                                                                                                                                                                 | CC          | MK | KH | DIS                | INT   | F&S | III |  |
| CO1,CO5                                                                    | Explain Agni, Kardama and Granthi visarpa                                                                                                                                                                                     | CC          | MK | KH | L&PP<br>T          | T-CS  | F&S | III |  |
| <b>Topic 33 33. Skin diseases</b> (Lecture :1 hours, Non lecture: 6 hours) |                                                                                                                                                                                                                               |             |    |    |                    |       |     |     |  |
| 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 | KH | 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-<br>GUD | DK | SH | L_VC<br>,D_B<br>ED | OSCE  | F&S | III |  |

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| 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 | CAP         | DK | SH | L&G<br>D,LRI       | INT   | F&S | III |  |
| <b>Topic 34 34. Galaganda</b> (Lecture :1 hours, Non lecture: 0 hours)          |                                                                                                                                                                                                                                     |             |    |    |                    |       |     |     |  |
| CO1                                                                             | Describe pratyatma lakshana and samprapti of Galaganda                                                                                                                                                                              | CC          | NK | KH | L&PP<br>T          | PUZ   | F&S | III |  |
| <b>Topic 35 35. Thyroid disorders</b> (Lecture :1 hours, Non lecture: 1 hours)  |                                                                                                                                                                                                                                     |             |    |    |                    |       |     |     |  |
| CO2,CO5                                                                         | Describe the clinical features of Hypothyroidism and hyperthyroidism                                                                                                                                                                | CC          | DK | KH | L_VC<br>,RP        | M-POS | F&S | III |  |
| CO3                                                                             | Perform relevant clinical examination of Hypothyroidism and hyperthyroidism                                                                                                                                                         | PSY-<br>GUD | DK | SH | L_VC<br>,D_B<br>ED | OSCE  | F&S | III |  |
| CO4                                                                             | Order and interpret relevant investigations of Hypothyroidism and hyperthyroidism                                                                                                                                                   | CAP         | DK | SH | L&G<br>D,LRI       | SP    | F&S | III |  |
| <b>Topic 36 36. Sthoulya – Karshya</b> (Lecture :1 hours, Non lecture: 0 hours) |                                                                                                                                                                                                                                     |             |    |    |                    |       |     |     |  |
| CO1                                                                             | Describe nidana of Sthoulya and Karshya                                                                                                                                                                                             | CC          | MK | KH | L&PP<br>T          | T-OBT | F&S | III |  |
| CO1                                                                             | Describe samprapti of Sthoulya                                                                                                                                                                                                      | CC          | MK | KH | L&G<br>D           | M-CHT | F&S | III |  |
| CO1,CO5                                                                         | Describe samanya and vishista lakshana of Sthoulya                                                                                                                                                                                  | CC          | MK | KH | L&PP<br>T          | QZ    | F&S | III |  |
| CO1,CO5                                                                         | Describe samanya lakshana of Karshya                                                                                                                                                                                                | CC          | MK | KH | L&PP<br>T          | O-QZ  | F&S | III |  |

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| CO1                                                                                             | Describe upadrava of Sthoulya                                                    | CC          | MK | KH | L&PP<br>T          | O-QZ  | F&S | III |      |
| CO1,CO5                                                                                         | Differential diagnosis of Karshya                                                | CC          | MK | KH | DIS                | CL-PR | F&S | III |      |
| <b>Topic 37 37. Obesity</b> (Lecture :1 hours, Non lecture: 1 hours)                            |                                                                                  |             |    |    |                    |       |     |     |      |
| CO2,CO5                                                                                         | Describe the clinical features of Obesity                                        | CC          | DK | KH | FC                 | WP    | F&S | III | H-SW |
| CO3                                                                                             | Perform relevant clinical examination of Obesity                                 | PSY-<br>GUD | DK | SH | L_VC<br>,D_B<br>ED | OSCE  | F&S | III |      |
| CO4                                                                                             | Order and interpret relevant investigations of Obesity                           | CAP         | DK | SH | PBL,<br>LRI        | INT   | F&S | III |      |
| CO2,CO5                                                                                         | Describe the differential diagnosis of Obesity                                   | CC          | DK | KH | L&G<br>D,PB<br>L   | INT   | F&S | III |      |
| <b>Topic 38 38. Prameha</b> (Lecture :2 hours, Non lecture: 1 hours)                            |                                                                                  |             |    |    |                    |       |     |     |      |
| CO1                                                                                             | Describe pratyatma lakshana of Prameha                                           | CC          | MK | KH | L&PP<br>T          | PUZ   | F&S | III |      |
| CO1                                                                                             | Describe hetu and samprapti of Prameha                                           | CC          | MK | KH | L&G<br>D           | M-CHT | F&S | III |      |
| CO1                                                                                             | Enlist bheda of Prameha                                                          | CK          | MK | K  | L&PP<br>T          | QZ    | F&S | III |      |
| CO1,CO5                                                                                         | Describe purvaroop, vishishta lakshana, upadrava and sadhya asadhyata of Prameha | CC          | MK | KH | L&PP<br>T          | PRN   | F&S | III |      |
| <b>Topic 39 39. Diabetes Mellitus and Pancreatitis</b> (Lecture :1 hours, Non lecture: 1 hours) |                                                                                  |             |    |    |                    |       |     |     |      |

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| CO2,CO5                                                                     | Describe the clinical features of Diabetes Mellitus and Pancreatitis                 | CC          | DK | KH | L&G<br>D,CB<br>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-<br>GUD | DK | SH | L_VC<br>,D_B<br>ED | OSCE  | F&S | III |  |
| CO4                                                                         | Order and interpret relevant investigations of Diabetes Mellitus and Pancreatitis    | CAP         | DK | SH | L&G<br>D,LRI       | SP    | F&S | III |  |
| CO2,CO5                                                                     | Describe Pancreatitis induced Diabetes mellitus (Fibrocalculous pancreatic Diabetes) | CC          | DK | KH | L&G<br>D           | INT   | F&S | III |  |
| <b>Topic 40 40. Vatavyadhi</b> (Lecture :1 hours, Non lecture: 0 hours)     |                                                                                      |             |    |    |                    |       |     |     |  |
| CO1,CO5                                                                     | Describe nidana, samanya purvaroop, and samanya lakshana of Vatavyadhi               | CC          | MK | KH | L&PP<br>T          | QZ    | F&S | III |  |
| <b>Topic 41 41. Snayugata vata</b> (Lecture :4 hours, Non lecture: 2 hours) |                                                                                      |             |    |    |                    |       |     |     |  |
| CO1                                                                         | Define Akshepaka                                                                     | CK          | MK | K  | L&PP<br>T          | QZ    | F&S | III |  |
| CO1                                                                         | Enlist Snayugata vata                                                                | CK          | MK | K  | L&PP<br>T          | QZ    | F&S | III |  |
| CO1,CO5                                                                     | Describe Akshepaka                                                                   | CC          | MK | KH | L_VC               | C-VC  | F&S | III |  |
| CO1                                                                         | Enlist Akshepaka bheda                                                               | CK          | MK | K  | L&PP<br>T          | QZ    | F&S | III |  |
| CO1                                                                         | Explain Akshepaka Samprapti                                                          | CC          | MK | KH | L&G<br>D           | M-CHT | F&S | III |  |

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| CO1,CO5 | Describe Apatanaka                                          | CC | MK | KH | L&PP<br>T         | INT       | F&S | III |  |
| CO1     | Enlist Apatanaka bheda                                      | CK | MK | K  | L&PP<br>T         | QZ        | F&S | III |  |
| CO1,CO5 | Describe Dandapatanaka, Antarayama and Bahirayama           | CC | MK | KH | L&PP<br>T,CB<br>L | C-VC      | F&S | III |  |
| CO1     | Define Ardita                                               | CK | MK | K  | L&PP<br>T         | O-QZ      | F&S | III |  |
| CO1,CO5 | 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                               | CK | MK | K  | L&PP<br>T         | INT       | F&S | III |  |
| CO1     | Define Pakshaghata                                          | CK | MK | K  | L&PP<br>T         | QZ        | F&S | III |  |
| CO1,CO5 | Describe Pakshaghata samprapti, and Pakshaghata lakshana    | CC | MK | KH | L&G<br>D,CD       | C-VC      | F&S | III |  |
| CO1,CO5 | Describe Kampavata                                          | CC | MK | KH | L_VC              | C-VC      | F&S | III |  |
| CO1,CO5 | Describe Gridhrasi and Vishwachi with its lakshana          | CC | MK | KH | CBL               | T-CS      | F&S | III |  |
| CO1,CO5 | Describe differential diagnosis of Gridhrasi and Viswachi   | CC | MK | KH | L&G<br>D          | INT       | F&S | III |  |
| CO1,CO5 | Describe Pangutwa                                           | CC | MK | KH | L_VC              | C-VC      | F&S | III |  |
| CO1,CO5 | Differentiate Khanja with Gridhrasi                         | CC | MK | KH | L&G               | C-VC      | F&S | III |  |

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| <b>Topic 42 42. Common neurologic and spine disorders</b> (Lecture :2 hours, Non lecture: 4 hours)    |                                                                                                                                                                                                                                                                                                 |             |    |    |                    |      |     |     |  |
| CO2,CO5                                                                                               | 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 | KH | L_VC<br>,RP        | C-VC | F&S | III |  |
| CO3                                                                                                   | 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-<br>GUD | DK | SH | L_VC<br>,D_B<br>ED | OSCE | F&S | III |  |
| CO4                                                                                                   | 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 | SH | L&G<br>D,LRI       | INT  | F&S | III |  |
| <b>Topic 43 43. Sandhigatavata and Asthi majja gata vata</b> (Lecture :1 hours, Non lecture: 0 hours) |                                                                                                                                                                                                                                                                                                 |             |    |    |                    |      |     |     |  |
| CO1,CO5                                                                                               | Describe Sandhigatavata                                                                                                                                                                                                                                                                         | CC          | MK | KH | L_VC               | C-VC | F&S | III |  |
| CO1,CO5                                                                                               | Describe Katigraha and Manyastambha                                                                                                                                                                                                                                                             | CC          | MK | KH | L&PP<br>T          | INT  | F&S | III |  |
| CO1,CO5                                                                                               | Explain Vatakantaka                                                                                                                                                                                                                                                                             | CC          | MK | KH | L&PP<br>T          | T-CS | F&S | III |  |
| CO1,CO5                                                                                               | Describe Avabahuka and Amsashosha                                                                                                                                                                                                                                                               | CC          | MK | KH | L&PP<br>T          | INT  | F&S | III |  |
|                                                                                                       |                                                                                                                                                                                                                                                                                                 |             |    |    |                    |      |     |     |  |

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| CO1,CO5                                                                                            | Describe the differential diagnosis of Avabahuka with Vishwachi                                                                                                                                                                             | CC          | MK | KH | L&G<br>D                  | QZ    | F&S | III |  |
| CO1,CO5                                                                                            | Describe Asthi-majjagata vata                                                                                                                                                                                                               | CC          | MK | KH | L&PP<br>T                 | INT   | F&S | III |  |
| <b>Topic 44 44. Diseases of bone, joints, and muscles</b> (Lecture :1 hours, Non lecture: 2 hours) |                                                                                                                                                                                                                                             |             |    |    |                           |       |     |     |  |
| 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-<br>GUD | DK | SH | L_VC<br>,D_B<br>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<br>D,XR<br>ay,LR<br>I | INT   | F&S | III |  |
| <b>Topic 45 45. Amavata</b> (Lecture :2 hours, Non lecture: 0 hours)                               |                                                                                                                                                                                                                                             |             |    |    |                           |       |     |     |  |
| CO1                                                                                                | Describe hetu and samprapti of Amavata                                                                                                                                                                                                      | CC          | MK | KH | L&PP<br>T                 | M-CHT | F&S | III |  |
| CO1                                                                                                | Enlist bheda of Amavata                                                                                                                                                                                                                     | CK          | MK | K  | L&PP<br>T                 | QZ    | F&S | III |  |
| CO1,CO5                                                                                            | Describe samanya lakshana, vishishta lakshana, upadrava and sadhya asadhyata of Amavata                                                                                                                                                     | CC          | MK | KH | L_VC                      | C-VC  | F&S | III |  |
| <b>Topic 46 46. Vatarakta</b> (Lecture :2 hours, Non lecture: 1 hours)                             |                                                                                                                                                                                                                                             |             |    |    |                           |       |     |     |  |

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|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------|----|----|--------------------|----------|-----|-----|--|
| CO1                                                                                                  | Define Vatarakta with its synonyms                                                                                      | CK          | MK | K  | L&PP<br>T          | O-QZ     | F&S | III |  |
| CO1                                                                                                  | Describe hetu and samprapti of Vatarakta                                                                                | CC          | MK | KH | L&G<br>D           | M-CHT    | F&S | III |  |
| CO1                                                                                                  | Explain Samprapti of Avasthika Vatarakta                                                                                | CC          | MK | KH | L&G<br>D           | INT      | F&S | III |  |
| CO1,CO5                                                                                              | Enlist and explain vidhi samprapti of Vatarakta                                                                         | CC          | MK | KH | L&G<br>D           | INT      | F&S | III |  |
| CO1,CO5                                                                                              | Enlist and explain bheda of doshaja Vatarakta                                                                           | CC          | MK | KH | L&G<br>D           | T-CS     | F&S | III |  |
| CO1,CO5                                                                                              | Describe purvaroop, upadrava, and sadhya asadhyata of Vatarakta                                                         | CC          | MK | KH | L&PP<br>T          | INT      | F&S | III |  |
| CO1,CO5                                                                                              | Describe the differential diagnosis of Sandhigata vata, Amavata and Vata rakta                                          | CC          | MK | KH | L&G<br>D           | T-CS,INT | F&S | III |  |
| <b>Topic 47 47. Immunological &amp; Metabolic disorders</b> (Lecture :1 hours, Non lecture: 2 hours) |                                                                                                                         |             |    |    |                    |          |     |     |  |
| CO2,CO5                                                                                              | Describe the clinical features of Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, Gout              | CC          | DK | KH | L_VC<br>,RP        | C-VC     | F&S | III |  |
| CO3                                                                                                  | Perform relevant clinical examination of Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, Gout       | PSY-<br>GUD | DK | SH | L_VC<br>,D_B<br>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<br>D,LRI       | T-CS     | F&S | III |  |
| CO2,CO5                                                                                              | Describe the differential diagnosis of Arthritis                                                                        | CC          | DK | KH | L&G<br>D,PB<br>L   | T-CS     | F&S | III |  |

|                                                                                                 |                                                                                   |     |    |    |                |           |     |     |      |
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| <b>Topic 48 48. Klaibya &amp; Vandhyatva</b> (Lecture :1 hours, Non lecture: 0 hours)           |                                                                                   |     |    |    |                |           |     |     |      |
| CO1                                                                                             | Describe Klaibya and vandhyatva                                                   | CC  | NK | KH | L&PP<br>T      | QZ        | F&S | III |      |
| CO1                                                                                             | Enlist types of Klaibya and Vandhyatva                                            | CK  | NK | K  | L&PP<br>T      | QZ        | F&S | III |      |
| <b>Topic 49 49. Sexual dysfunction and Infertility</b> (Lecture :1 hours, Non lecture: 1 hours) |                                                                                   |     |    |    |                |           |     |     |      |
| CO2                                                                                             | Order and interpret relevant investigations of Sexual dysfunction and Infertility | CAP | NK | SH | L&G<br>D,LRI   | T-CS      | F&S | III |      |
| CO2                                                                                             | Describe differential diagnosis of Sexual dysfunction and Infertility             | CC  | NK | KH | L&G<br>D       | INT       | F&S | III | V-SP |
| <b>Topic 50 50. Unmada &amp; Apasmara</b> (Lecture :3 hours, Non lecture: 0 hours)              |                                                                                   |     |    |    |                |           |     |     |      |
| CO1                                                                                             | Explain nirukti of Unmada and Apasmara                                            | CC  | NK | KH | L&PP<br>T      | O-QZ      | F&S | III |      |
| CO1                                                                                             | Explain pratyatmalakshana of Unmada and Apasmara                                  | CC  | NK | KH | L&PP<br>T      | PUZ       | F&S | III |      |
| CO1                                                                                             | Describe hetu and samprapti of Unmada and Apasmara                                | CC  | NK | KH | L&G<br>D       | M-CHT     | F&S | III |      |
| CO1                                                                                             | Enlist bheda of Unmada and Apasmara                                               | CK  | NK | K  | L&PP<br>T      | QZ        | F&S | III |      |
| CO1                                                                                             | Describe samanya lakshana of Unmada and Apasmara                                  | CC  | NK | KH | L&G<br>D,L_ VC | QZ , C-VC | F&S | III |      |
| <b>Topic 51 51. Vishada</b> (Lecture :1 hours, Non lecture: 0 hours)                            |                                                                                   |     |    |    |                |           |     |     |      |

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|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------|----|----|--------------------|-------|-----|-----|--|
| CO1                                                                                      | Define Vishada                                                                                 | CK          | NK | K  | L&PP<br>T          | QZ    | F&S | III |  |
| <b>Topic 52 52. Murchha, and Sanyasa</b> (Lecture :1 hours, Non lecture: 0 hours)        |                                                                                                |             |    |    |                    |       |     |     |  |
| CO1                                                                                      | Describe the Utpadaka hetu of Murchha, and Sanyasa                                             | CC          | NK | KH | L&PP<br>T          | INT   | F&S | III |  |
| CO1                                                                                      | Describe samprapti of Murchha, and Sanyasa                                                     | CC          | NK | KH | L&G<br>D           | M-CHT | F&S | III |  |
| <b>Topic 53 53. Common Psychiatric diseases</b> (Lecture :1 hours, Non lecture: 0 hours) |                                                                                                |             |    |    |                    |       |     |     |  |
| CO2,CO5                                                                                  | Describe clinical manifestation of Depression, Anxiety neurosis and Epilepsy (Non-organic)     | CC          | NK | KH | L&PP<br>T          | QZ    | F&S | III |  |
| CO2,CO5                                                                                  | Differentiate Depression, Anxiety neurosis, and Epilepsy (Non-organic)                         | CC          | NK | KH | L&G<br>D           | CL-PR | F&S | III |  |
| CO3                                                                                      | Perform mental status examination for Depression, Anxiety neurosis, and Epilepsy (Non-organic) | PSY-<br>GUD | NK | SH | L_VC<br>,D_B<br>ED | INT   | F&S | III |  |
| <b>Topic 54 54. Phiranga and Upadamsha</b> (Lecture :1 hours, Non lecture: 0 hours)      |                                                                                                |             |    |    |                    |       |     |     |  |
| CO1                                                                                      | Describe nidana of Phiranga and Upadamsha                                                      | CC          | NK | KH | L&PP<br>T          | QZ    | F&S | III |  |
| CO1                                                                                      | Explain the Upadamsha samprapti                                                                | CC          | NK | KH | L&PP<br>T          | M-CHT | F&S | III |  |
| CO1                                                                                      | Enlist the types of Phiranga                                                                   | CK          | NK | K  | L&PP<br>T          | QZ    | F&S | III |  |
| <b>Topic 55 55. Syphilis &amp; Gonorrhoea</b> (Lecture :1 hours, Non lecture: 1 hours)   |                                                                                                |             |    |    |                    |       |     |     |  |

|                                                                                                                  |                                                                                                                          |             |    |    |              |        |     |     |  |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------|----|----|--------------|--------|-----|-----|--|
| CO2                                                                                                              | Describe causative factors, and clinical features of Syphilis and Gonorrhoea                                             | CC          | NK | KH | L&G<br>D     | T-CS   | F&S | III |  |
| 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<br>D,LRI | INT    | F&S | III |  |
| <b>Topic 56 56. Krimiroga</b> (Lecture :1 hours, Non lecture: 0 hours)                                           |                                                                                                                          |             |    |    |              |        |     |     |  |
| CO1                                                                                                              | Describe hetu of Krimiroga                                                                                               | CC          | NK | KH | L&PP<br>T    | O-QZ   | F&S | III |  |
| CO1                                                                                                              | Enlist bheda of Krimiroga                                                                                                | CK          | NK | K  | L&PP<br>T    | O-QZ   | F&S | III |  |
| CO1                                                                                                              | Describe samanya lakshana of Krimiroga                                                                                   | CC          | NK | KH | L&PP<br>T    | O-GAME | F&S | III |  |
| <b>Topic 57 57. Clinical presentation of common parasitic disorders</b> (Lecture :1 hours, Non lecture: 2 hours) |                                                                                                                          |             |    |    |              |        |     |     |  |
| CO2,CO5                                                                                                          | Describe the clinical presentation of Hook worm, Round worm, Thread worm, and Pin worm                                   | CC          | DK | KH | 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-<br>GUD | DK | SH | L&PP<br>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<br>D,LRI | T-CS   | F&S | III |  |
| <b>Topic 58 58. Khalitya &amp; Palitya</b> (Lecture :1 hours, Non lecture: 0 hours)                              |                                                                                                                          |             |    |    |              |        |     |     |  |
| CO1                                                                                                              | Describe Khalitya and Palitya                                                                                            | CC          | NK | KH | L&PP<br>T    | O-QZ   | F&S | III |  |

| <b>Topic 59 59. Shleepada</b> (Lecture :1 hours, Non lecture: 0 hours)    |                                                                                      |             |    |    |              |           |     |     |      |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------|----|----|--------------|-----------|-----|-----|------|
| CO1                                                                       | Describe nidana and samprapti of Shleepada                                           | CC          | NK | KH | L&PP<br>T    | M-CHT     | F&S | III |      |
| CO1                                                                       | Enlist bheda of Shleepada                                                            | CK          | NK | K  | L&PP<br>T    | QZ        | F&S | III |      |
| CO1                                                                       | Enlist features of Shleepada                                                         | CK          | NK | K  | L&PP<br>T    | O-QZ      | F&S | III |      |
| <b>Topic 60 60. Tuberculosis</b> (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-<br>GUD | DK | SH | L&PP<br>T    | INT       | F&S | III |      |
| CO4                                                                       | Order and interpret relevant investigations of clinical presentation of Tuberculosis | CAP         | DK | SH | L&G<br>D,LRI | INT       | F&S | III |      |

**List of Practicals (Term and Hours)**

| <b>PRACTICALS (Marks-100)</b> |                                                                                                 |             |              |
|-------------------------------|-------------------------------------------------------------------------------------------------|-------------|--------------|
| <b>S.No</b>                   | <b>List of Topics</b>                                                                           | <b>Term</b> | <b>Hours</b> |
| 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)**

| <b>A4</b><br>Course<br>outcome                                                  | <b>B4</b><br>Learning Objective (At the end of the session, the students should be able to)                                                                               | <b>C4</b><br>Doma<br>in/sub | <b>D4</b><br>Must to know<br>/ desirable to<br>know / Nice<br>to know | <b>E4</b><br>Level<br>Does/<br>Show<br>s<br>how/<br>Know<br>s<br>how/<br>Know | <b>F4</b><br>T-L<br>meth<br>od | <b>G4</b><br>Assessment<br><br>(Refer<br>abbreviations) | <b>H4</b><br>Form<br>ative/<br>summ<br>ative | <b>I4</b><br>Term | <b>K4</b><br>Integr<br>ation |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------|----------------------------------------------|-------------------|------------------------------|
| <b>Topic 1 1. Aptopadesha Pareeksha/Prashna Pareeksha</b>                       |                                                                                                                                                                           |                             |                                                                       |                                                                               |                                |                                                         |                                              |                   |                              |
| 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                     | MK                                                                    | KH                                                                            | D_BE<br>D                      | CHK,RK                                                  | F&S                                          | I                 |                              |
| CO7,CO8                                                                         | Adopt and reflect ward ethics and communication skills while engaging in the process of examination                                                                       | AFT-RES                     | MK                                                                    | SH                                                                            | SIM                            | SP,RK                                                   | F&S                                          | I                 |                              |
| <b>Topic 2 2. Introduction to case sheet. Pratyaksha and Anumana Pareeksha.</b> |                                                                                                                                                                           |                             |                                                                       |                                                                               |                                |                                                         |                                              |                   |                              |
| CO3,CO5                                                                         | Perform Darshanendriya, Sparshanedriya, Srotrendriya pareeksha mentioned in Ayurveda and contemporary medical literature for drawing clinical diagnosis and prognosis     | PSY-GUD                     | MK                                                                    | SH                                                                            | D_BE<br>D                      | P-CASE                                                  | F&S                                          | I                 |                              |
| CO5                                                                             | Perform Ghranendriya, & infer Rasanendriyatataha pareeksha mentioned in Ayurveda and contemporary medical literature for drawing clinical diagnosis and prognosis         | CAN                         | MK                                                                    | KH                                                                            | SIM                            | P-CASE,RK                                               | F&S                                          | I                 |                              |
| CO5,CO7                                                                         | Report the findings of patient through structured case sheet                                                                                                              | CC                          | MK                                                                    | KH                                                                            | CD                             | P-CASE,RK                                               | F&S                                          | I                 |                              |
| CO3,CO5                                                                         | Perform Nadi pareeksha as per Ayurveda classics for identifying predominance of dosha.                                                                                    | PSY-GUD                     | MK                                                                    | SH                                                                            | D_BE<br>D                      | P-PRF                                                   | F&S                                          | I                 |                              |

| <b>Topic 3 3. General clinical and Systemic examination -A</b>  |                                                                                                                                                                                                                                                                                                                                          |         |    |    |             |                |     |    |  |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----|----|-------------|----------------|-----|----|--|
| 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 | MK | SH | SIM, D_BE D | CL-PR,OSCE ,RK | F&S | I  |  |
| <b>Topic 4 4. General clinical and Systemic examination - B</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)            | CAP     | MK | SH | SIM         | SP,RK          | F&S | I  |  |
| <b>Topic 5 5. Common Symptomatology of different systems</b>    |                                                                                                                                                                                                                                                                                                                                          |         |    |    |             |                |     |    |  |
| 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        | COM            | F&S | II |  |
| 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 | II |  |
| <b>Topic 6 6. Vyavachedaka nidana/ Differential diagnosis</b>   |                                                                                                                                                                                                                                                                                                                                          |         |    |    |             |                |     |    |  |

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|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----|----|--------------|--------------|-----|----|--|
| CO5                                                                                                            | Infer diagnosis and prognosis based on a given clinical scenario                                                                                                                                                                                                                                 | CAN     | MK | 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 | CAP     | DK | SH | SIM, CD      | INT,SP       | F&S | II |  |
| CO5                                                                                                            | Apply intuitive and analytical approach in clinical decision making                                                                                                                                                                                                                              | CAP     | DK | SH | PBL,S IM,C D | SP           | F&S | II |  |
| CO5                                                                                                            | Perform clinical diagnosis using these clinical reasoning models                                                                                                                                                                                                                                 | PSY-GUD | DK | SH | SIM, CD      | SP           | F&S | II |  |
| <b>Topic 7 7. Case presentation</b>                                                                            |                                                                                                                                                                                                                                                                                                  |         |    |    |              |              |     |    |  |
| CO5,CO7                                                                                                        | Demonstrate case presentation skills                                                                                                                                                                                                                                                             | PSY-GUD | MK | SH | L_VC ,D_B ED | P-CASE,CL-PR | F&S | II |  |
| <b>Topic 8 8. Introduction to Diagnostic procedures - Hematology, Biochemistry, Microbiology, Urine, Stool</b> |                                                                                                                                                                                                                                                                                                  |         |    |    |              |              |     |    |  |
| CO4,CO5,CO6                                                                                                    | Order and interpret Diagnostic procedures - Haematology, Biochemistry, Microbiology, Urine, and Stool.                                                                                                                                                                                           | CAP     | MK | SH | PBL, LRI     | T-CS         | F&S | II |  |
| CO3                                                                                                            | Suggest patient's preparation for Diagnostic procedures - Haematology, Biochemistry, Microbiology, Urine, and Stool                                                                                                                                                                              | AFT-RES | MK | SH | L&PP T       | SP           | F&S | II |  |
| CO3                                                                                                            | Perform sample collection for Diagnostic procedures - Haematology, Biochemistry, Microbiology, Urine, and Stool                                                                                                                                                                                  | PSY-GUD | MK | SH | SIM          | SP,RK        | F&S | II |  |
| <b>Topic 9 9. Introduction to Electro Cardio Gram (ECG), Different imaging techniques</b>                      |                                                                                                                                                                                                                                                                                                  |         |    |    |              |              |     |    |  |
| CO4,CO5,CO6                                                                                                    | Order and interpret given report for Electro Cardio Gram (ECG)                                                                                                                                                                                                                                   | CAP     | DK | SH | L&PP         | P-ID,CL-PR   | F&S | II |  |

|                                                                                |                                                                                                                                                                                                                                |             |    |    |            |        |     |     |  |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----|----|------------|--------|-----|-----|--|
| 6                                                                              | and different imaging techniques                                                                                                                                                                                               |             |    |    | T,XR<br>ay |        |     |     |  |
| CO3                                                                            | Suggest patient's preparation for Electro Cardio Gram (ECG) and different imaging techniques                                                                                                                                   | AFT-<br>RES | DK | SH | L&PP<br>T  | INT,SP | F&S | II  |  |
| <b>Topic 10 10. Introduction to Histopathology</b>                             |                                                                                                                                                                                                                                |             |    |    |            |        |     |     |  |
| CO4,CO5,CO<br>6                                                                | Order and interpret tests for Histopathology specimens                                                                                                                                                                         | CAP         | NK | SH | LRI        | INT    | F&S | III |  |
| <b>Topic 11 11. Study of Histopathology Specimens</b>                          |                                                                                                                                                                                                                                |             |    |    |            |        |     |     |  |
| 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 demonstration and spotting) | AFT-<br>RES | NK | SH | D_L        | P-ID   | F&S | III |  |
| <b>Topic 12 12. Retas pareeksha</b>                                            |                                                                                                                                                                                                                                |             |    |    |            |        |     |     |  |
| CO1,CO5                                                                        | Describe and interpret retas pareeksha                                                                                                                                                                                         | CC          | DK | KH | D_L        | INT    | F&S | III |  |
| <b>Topic 13 13. Pathology practical (Perform/ Observation/ Interpretation)</b> |                                                                                                                                                                                                                                |             |    |    |            |        |     |     |  |
| CO4,CO5,CO<br>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         | MK | 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-<br>GUD | MK | SH | PT         | P-PRF  | F&S | III |  |
| CO4,CO5,CO<br>6                                                                | Order and interpret Urine physical examination (Appearance, colour, odour)                                                                                                                                                     | CAP         | MK | SH | LRI        | INT    | F&S | III |  |

|             |                                                                                                                                                                                                                                                                       |         |    |    |          |        |     |     |  |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----|----|----------|--------|-----|-----|--|
| CO3         | Perform Urine physical examination ( <u>Appearance, colour, odour</u> ) through <u>Visual method</u>                                                                                                                                                                  | PSY-GUD | MK | SH | CBL, PT  | P-PRF  | F&S | III |  |
| CO4,CO5,CO6 | 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)                                                           | CAP     | MK | 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 | MK | SH | PRA      | P-PRF  | F&S | III |  |
| CO4,CO5,CO6 | Order and interpret Urine Microscopic Examination (Epithelial cells, RBCs, Leukocytes, Casts, Crystals) - Light microscopy on centrifuged sediment                                                                                                                    | CAP     | MK | 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 | MK | SH | PRA      | P-PRF  | F&S | III |  |
| CO4,CO5,CO6 | 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 | III |  |
| 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 | KH | D_L      | QZ     | F&S | III |  |
| CO4,CO5,CO6 | Order and interpret Renal Function Test (RFT) (Urea, Creatinine, Uric acid) - Semi-automated/ fully automated biochemical analyser through Photometry                                                                       | CAP | MK | SH | CBL, LRI | INT,RK | F&S | III |  |
| CO4,CO5,CO6 | 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 | MK | SH | CBL, LRI | INT,RK | F&S | III |  |
| CO4,CO5,CO6 | 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 | KH | D_L      | QZ     | F&S | III |  |
| CO4,CO5,CO6 | Order and interpret Lipid profile (Cholesterol, HDL, LDL, TG) - Semi-automated/ fully automated biochemical analyser through Photometry                                                                                     | CAP | MK | SH | CBL, LRI | INT,RK | F&S | III |  |
| CO4,CO5,CO6 | Order and interpret Peripheral smear (Malaria, Microfilaria) - Microscopy through Leishmans staining                                                                                                                        | CAP | MK | SH | CBL, LRI | INT,RK | F&S | III |  |
| CO2         | Describe Peripheral smear (Malaria, Microfilaria) procedure through demonstration - Microscopy through Leishmans staining                                                                                                   | CC  | DK | KH | D_L      | QZ     | F&S | III |  |
| CO4,CO5,CO6 | Order and interpret RA factor (qualitative), WIDAL (qualitative), VDRL (qualitative), ASO (qualitative) and CRP (qualitative) - Microscopy (if required) through Latex agglutination/                                       | CAP | MK | SH | CBL, LRI | INT,RK | F&S | III |  |

|             |                                                                                                                                                                                        |         |    |    |          |         |     |     |  |
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|             | Turbidometry                                                                                                                                                                           |         |    |    |          |         |     |     |  |
| CO3         | Perform RA factor (qualitative), WIDAL (qualitative), VDRL (qualitative), ASO (qualitative) and CRP (qualitative) - Microscopy (if required) through Latex agglutination/ Turbidometry | PSY-GUD | MK | SH | PRA      | P-PRF   | F&S | III |  |
| CO4,CO5,CO6 | 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,CO6 | 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,CO6 | 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,CO6 | 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 | KH | D_L      | INT,COM | F&S | III |  |
| CO4,CO5,CO6 | Order and interpret BT, CT, Prothrombin Time - Coagulometer                                                                                                                            | CAP     | MK | 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<br>Pareeksha/Prashna<br>Pareeksha                                                               | 1    | History taking/ Ward ethics/<br>Communication skills                                                                                                                                                                                                                                                 | 10            |
| 2    | 2. Introduction to case<br>sheet. Pratyaksha and<br>Anumana Pareeksha.                                         | 1    | Darshanendriya, Sparshanedriya,<br>Srotrendriya & Ghranendriya &<br>Rasanendriyataha pareeksha. General<br>principle of systemic examination –<br>Inspection, Palpation, Percussion,<br>Auscultation                                                                                                 | 10            |
| 3    | 3. General clinical and<br>Systemic examination -A                                                             | 1    | Demonstration on patients and using<br>simulators, software or applications                                                                                                                                                                                                                          | 20            |
| 4    | 4. General clinical and<br>Systemic examination - B                                                            | 1    | General and Systemic examination                                                                                                                                                                                                                                                                     | 20            |
| 5    | 5. Common<br>Symptomatology of<br>different systems                                                            | 2    | Pain abdomen, Edema, Diarrhea,<br>Dysentery, Dehydration and constipation,<br>Hiccough, Breathlessness, Cough,<br>Vomiting, Joint pain with or without<br>swelling Differential Diagnosis, Neck and<br>Low back pain radiating to corresponding<br>limb, Hematuria, Stroke Differential<br>Diagnosis | 20            |
| 6    | 6. Vyavachedaka nidana/<br>Differential diagnosis                                                              | 2    | Clinical reasoning models                                                                                                                                                                                                                                                                            | 4             |
| 7    | 7. Case presentation                                                                                           | 2    | Demonstrating and presenting steps of<br>clinical diagnosis                                                                                                                                                                                                                                          | 40            |
| 8    | 8. Introduction to<br>Diagnostic procedures -<br>Hematology,<br>Biochemistry,<br>Microbiology, Urine,<br>Stool | 2    | A. Order an investigation B. Patient's<br>preparation C. Sample collection                                                                                                                                                                                                                           | 26            |
| 9    | 9. Introduction to Electro<br>Cardio Gram (ECG),<br>Different imaging<br>techniques                            | 2    | Order and interpret reports related to ECG<br>and Diagnostic imaging                                                                                                                                                                                                                                 | 10            |
| 10   | 10. Introduction to<br>Histopathology                                                                          | 2    | Order and Interpret                                                                                                                                                                                                                                                                                  | 4             |

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| <b>11</b>       | 11. Study of 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          |
| <b>12</b>       | 12. Retas pareeksha                                            | 3 | Interpret observations derived from reto pareeksha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2          |
| <b>13</b>       | 13. Pathology practical (Perform/ Observation/ Interpretation) | 3 | 13.1 Hematology (Discipline) - Hemogram (Profile)<br>13. 2 Clinical pathology (Discipline) - Urine Physical Examination (Profile)<br>13. 3 Clinical pathology (Discipline) - Urine Physical and Chemical Examination (Profile)<br>13. 4 Clinical pathology (Discipline) - Urine Microscopic Examination (Profile)<br>13. 5 Clinical biochemistry (Discipline) - Liver Function Test (LFT) (Profile)<br>13. 6 Clinical biochemistry (Discipline) - Renal Function Test (RFT) (Profile)<br>13. 7 Clinical biochemistry (Discipline) - Diabetic profile (Profile)<br>13. 8 Clinical biochemistry (Discipline) - Thyroid profile (Profile)<br>13. 9 Clinical biochemistry (Discipline) - Lipid profile (Profile)<br>13. 10 Clinical Pathology/ Haematology (Discipline) - Peripheral Smear (Profile)<br>13. 11 Serology (Discipline) - RA Factor/ WIDAL (Profile)<br>13. 12 Clinical Pathology (Discipline) - Stool examination (Profile)<br>13. 13 Clinical Pathology (Discipline) - Stool examination (Profile)<br>13. 14 Clinical Pathology (Discipline) - Semen examination (Profile)<br>13. 15 Serology (Discipline) - Coagulation test (Profile) | 40         |
| <b>Total Hr</b> |                                                                |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>210</b> |

## Activity

| CO                          | Topic name                                                                                                                                                                                                                                                                       | Activity Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Hours <sup>#</sup> |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| CO1,CO2,CO3,CO4,CO6,CO7,CO8 | 1. Assessment of Dosha Vikriti:<br><br>A. Nidana (Vyadhi janaka hetu)<br>B. Agni bheda and Vikriti<br>C. Dosha Vriddhi, Kshaya and Dushta Karma, Samsargaja, Sannipataja.<br>D. Dosha swabhava - Nityasamshleshita (Leena) dosha and Parichedita dosha<br>E. Paridhavamana dosha | Survey : After the completion of the topic the students are instructed to identify:<br><br>The contemporary etiologies for the nidana or hetu are mentioned in various contexts as a part of case diagnosis.<br><br>Identify Dosha Vriddhi, Kshaya and Dushta Karma, Samsargaja, Sannipataja features as a part of Case diagnosis.<br><br><br>Minimum - 5 cases                                                                                                                                                                                                        | 6                  |
| CO1,CO2                     | 2. Dhatu PakA. Ojodusti lakshana<br>B. Asatmya - Immune pathology,<br>C. Cell Injury and Cellular Adaptations<br>D. Inflammation<br>E. Hemodynamic disorders<br>F. Neoplasia                                                                                                     | Creating video presentations (5 to 7 minutes):<br><br>After understanding the basic concepts:<br><br>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.<br><br>Topics of Ayurveda and various contemporary learning objectives defined can be provided for the same.<br><br>The topics for video presentations should be selected from the subtopics, it can be regarding a specific point or research update or collection | 5                  |

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|     |                                                                            | <p>and summary of scientific articles, etc. which will be assisting in clinical practice.</p> <p>The video presentations should be submitted to create a repository and presented to the department.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |
| CO2 | 3. Infection and Nutritional disorders                                     | <p>Class presentations:</p> <p>Group activity with self-directed learning:</p> <p>Students are instructed to compile the subtopics given to the group.</p> <p>Prepare a PPT presentation and present it in class with the groups.</p> <p>10 min. for presentation and 5 min for question answers for each group.</p> <p>Topics to be covered in the presentation:</p> <p>A) The detailed knowledge of specific organisms, infectious disease symptomatology, and diagnostic procedures with recent advancements and challenges in diagnosis.</p> <p>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.</p> <p>Monitored by instructors or mentors assigned for each group.</p> | 2 |
| CO6 | 4. Digital health and Artificial intelligence in the context of Roganidana | <p>Poster making:</p> <p>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</p>                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 |

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|                             |                              | clinical practice. Similarly, the implementation of artificial intelligence in diagnosis and prognosis also can be prepared.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| CO1,CO2,CO3,CO4,CO6,CO7,CO8 | 5. Methods of Rogi pareeksha | <p>Demonstration bed side:</p> <p>After understanding the core concepts of pareeksha the student will be Demonstrated regarding various pareekshas before performing the same in practical session.</p> <p>The students are supposed to observe the same, receive, understand and imitate the methods demonstrated.</p> <p>Students will be assigned with the mentioned topics as a part of the activity by the instructor in minimum 5 simulated patients or patients.</p>                                                                                                                                                                                                                                                                                                                 | 5 |
| CO6                         | 6. Vyadhinamakarana          | <p>Demonstration:</p> <p>The instructor will be demonstrating the operations of the NAMASTE (National AYUSH Morbidity and Standardized Terminologies Electronic Portal) portal.</p> <p>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.</p> <p>Students can be assigned with any of the mentioned topics as a part of the activity by the instructor.</p> | 1 |

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| <p>CO2,CO3,CO6,CO7,CO8</p> | <p>7. Perform relevant clinical examinations in the following disorders:</p> <p>Gastrointestinal disorders: Ulcerative and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, Inflammatory Bowel Diseases.</p> <p>Urinary disorders: Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury and Chronic Kidney Disease.</p> <p>Respiratory disorders: Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion and Bronchiectasis.</p> <p>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.</p> <p>Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure.</p> <p>Hepatobiliary diseases - Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Diseases, Hepatitis, Jaundice, and Ascites.</p> | <p>Demonstration bedside (Simulated patients):</p> <p>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.</p> <p>The case study will be written in the activity book.</p> | <p>8</p> |
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|  | <p>Allergic disorders -<br/>Eczema, Urticaria;<br/>Squamous lesions -<br/>Psoriasis, Lichen planus;<br/>Bullous lesion –<br/>Pemphigus and<br/>Pemphigoid. Mycotic skin<br/>diseases. Leprosy.<br/>Vitiligo. Cellulitis.</p> <p>Hypothyroidism and<br/>hyperthyroidism.</p> <p>Obesity.</p> <p>Diabetes Mellitus and<br/>Pancreatitis.</p> <p>Common neurologic<br/>diseases: Parkinson's<br/>disease, Stroke, Bell's<br/>Palsy, Motor Neuron<br/>Disease, Transverse<br/>myelitis, Epilepsy<br/>(Organic)</p> <p>Common Spine disorders:<br/>Lumbago- Sciatica<br/>syndrome, Brachial<br/>neuralgia, Cervical and<br/>Lumber Spondylosis.</p> <p>Diseases of bone and<br/>Joints - Osteoarthritis,<br/>Osteoporosis. Frozen<br/>Shoulder, Calcaneal spur/<br/>Plantar fasciitis, Tennis<br/>elbow, Carpel tunnel<br/>syndrome.</p> <p>Muscular diseases -<br/>Muscular Dystrophy.<br/>Rheumatic fever,<br/>Rheumatoid arthritis,<br/>SLE, Ankylosing<br/>spondylitis, Gout.</p> <p>Mental status examination<br/>for Depression, Anxiety<br/>neurosis and Epilepsy</p> |  |  |
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|                 | <p>(Non - organic).</p> <p>Common parasitic infestations: Hookworm, Roundworm, Threadworm, and Pinworm.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                       |   |
| CO4,CO6,CO7,CO8 | <p>8. Order and interpret relevant investigations with the clinical correlation of the following disorders:</p> <p>Gastrointestinal disorders: Ulcerative and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, Inflammatory Bowel Diseases.</p> <p>Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury, and Chronic Kidney Disease.</p> <p>Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, and Bronchiectasis.</p> <p>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.</p> <p>Anaemia, Nutritional anaemia, Thalassemia, Sickle cell anaemia, Leukaemia, and</p> | <p>Lab report interpretation:</p> <p>Students will be given a clinical scenario or a case or report in the respective training hour.</p> <p>Based on the training given the students are expected to draw a provisional diagnosis based on the Lab report interpretation.</p> <p>The same has to be recorded in the activity book</p> | 8 |

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|  | <p>Thrombocytopenia.</p> <p>Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure.</p> <p>Hepatobiliary diseases - Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Diseases, Hepatitis, Jaundice, and Ascites.</p> <p>Allergic disorders - Eczema, Urticaria; Squamous lesions - Psoriasis, Lichen planus; Bullous lesion – Pemphigus and Pemphigoid. Mycotic skin diseases. Leprosy. Vitiligo. Cellulitis.</p> <p>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).</p> <p>Common Spine disorders: Lumbago - Sciatica syndrome, Brachial neuralgia, Cervical and Lumber Spondylosis.</p> <p>Diseases of bone and Joints - Osteoarthritis, Osteoporosis. Frozen Shoulder, Calcaneal spur/ Plantar fasciitis, Tennis elbow, Carpel tunnel syndrome.</p> |  |
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|          | <p>Muscular diseases -<br/>Muscular Dystrophy.</p> <p>Rheumatic fever,<br/>Rheumatoid arthritis,<br/>SLE, Ankylosing<br/>spondylitis, Gout.</p> <p>Sexual dysfunction and<br/>Infertility. Syphilis and<br/>Gonorrhoea.</p> <p>Parasitic infestations:<br/>Hookworm, Roundworm,<br/>Threadworm, and<br/>Pinworm.</p> <p>Tuberculosis</p>                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                     |    |
| CO1, CO2 | <p>9. Differential diagnosis:</p> <p>Differentiate between<br/>Atisara and Pravahika.</p> <p>Differentiate Atisara and<br/>Grahani Roga.</p> <p>Differentiate Grahani<br/>dosha and Grahani Roga.</p> <p>Describe the differential<br/>diagnosis of Ulcerative<br/>and Non-ulcerative<br/>dyspepsia, Irritable Bowel<br/>Syndrome, and<br/>Inflammatory Bowel<br/>Diseases.</p> <p>Enlist conditions of Mutra<br/>shoshana (Kshaya and<br/>Aukasada) and Mutra<br/>pratihanyate (Avarodha)<br/>among different types of<br/>Mutraghata.</p> <p>Describe different types<br/>of Mutraghata.</p> | <p>Problem-Based Learning:</p> <p>The students will be grouped for PBL sessions<br/>with a specific topic from the topic list given.</p> <p>At the end of the session, the groups will present<br/>in class.</p> <p>Peer learning will also be achieved with this<br/>activity.</p> | 10 |

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|  | <p>Differentiate Mootrakrichra and Mootraghata.</p> <p>Describe the differential diagnosis of Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, and Bronchiectasis.</p> <p>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.</p> <p>Describe the differential diagnosis of Anaemia, Nutritional anemia, Thalassemia, Sickle cell anemia, Leukaemia, and Thrombocytopenia.</p> <p>Describe the differential diagnosis of Coronary Artery Disease (Ischemic Heart Disease, and Myocardial Infarction) and Congestive cardiac failure.</p> <p>Describe the differential diagnosis of Hepatobiliary diseases - Liver cirrhosis, Alcoholic and Non - Alcoholic Liver Diseases, Hepatitis, Jaundice, and Ascites.</p> <p>Describe the differential diagnosis of Hypothyroidism and hyperthyroidism.</p> |  |
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|  | 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, Cappel 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                                                                                                                                                                                                                                                                  |  |  |

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|         | <p>diagnosis of clinical presentation of Hookworm, Roundworm, Threadworm, and Pinworm.</p> <p>Describe the differential diagnosis of the clinical presentation of Tuberculosis.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |
| CO2,CO5 | <p>10. Clinical features - Role plays in learning:</p> <p>Describe the clinical features of Ulcerative and Non-ulcerative dyspepsia, Irritable Bowel Syndrome, and Inflammatory Bowel Diseases.</p> <p>Describe the clinical features of Urinary Tract Infection, Prostatomegaly, Nephrotic syndrome, Nephritic syndrome, Acute Kidney Injury, and Chronic Kidney Disease.</p> <p>Describe the clinical features of Pneumonia, Chronic Obstructive Pulmonary Disease, Pleural effusion, and Bronchiectasis.</p> <p>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.</p> | <p>Role plays:</p> <p>Role plays are an effective method of teaching to create a real-world scenario in a controlled manner.</p> <p>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.</p> <p>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.</p> | 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,

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                            |    |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|             | <p>Motor Neuron Disease, Transverse myelitis, Epilepsy (Organic), and Common Spine disorders: Lumbago- Sciatica syndrome, Brachial neuralgia, Cervical, and Lumber Spondylosis.</p> <p>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.</p> <p>Describe the clinical features of Rheumatic fever, Rheumatoid arthritis, SLE, Ankylosing spondylitis, and Gout.</p> |                                                                                                                                                                                                            |    |
| CO4,CO6,CO8 | <p>11. Field visits:</p> <p>Visit to Pathology laboratory and Diagnostic imaging center.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>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.</p> | 10 |

# 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 | Papers | Theory | Practical/Clinical Assessment |      |          |    |     | Grand |
|--------------|--------|--------|-------------------------------|------|----------|----|-----|-------|
|              |        |        | Practical                     | Viva | Elective | IA | Sub |       |

|         |   |     |     |    |   |    |              |              |
|---------|---|-----|-----|----|---|----|--------------|--------------|
|         |   |     |     |    |   |    | <b>Total</b> | <b>Total</b> |
| AyUG-RN | 2 | 200 | 100 | 70 | - | 30 | 200          | 400          |

#### 6 B - Scheme of Assessment (formative and Summative)

| PROFESSIONAL COURSE | DURATION 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**

| TERM            | PERIODICAL ASSESSMENT*                                                                                                                                                                                                                                                                                                                         |              |              |                   |                                 | TERM TEST**                       | TERM ASSESSMENT      |                          |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|-------------------|---------------------------------|-----------------------------------|----------------------|--------------------------|
|                 | A 3                                                                                                                                                                                                                                                                                                                                            | B            | C            | D                 | E                               | F                                 | G                    | H                        |
|                 | 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                               |                      | E                        |
| <b>Final IA</b> | Average of Three Term Assessment Marks as Shown in 'H' Column.                                                                                                                                                                                                                                                                                 |              |              |                   |                                 |                                   |                      |                          |
|                 | Maximum Marks in Parentheses<br>*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.

**6 E Question Paper Pattern****II PROFESSIONAL BAMS EXAMINATIONS****AyUG-RN****PAPER-1**

Time: 3 Hours Maximum Marks: 100

INSTRUCTIONS: All questions compulsory

|     |                                 | <b>Number of Questions</b> | <b>Marks per question</b> | <b>Total Marks</b> |
|-----|---------------------------------|----------------------------|---------------------------|--------------------|
| 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**

| <b>Paper 1 Fundamental Principles of Vikriti Vigyan</b> |                                                         |                   |                    |                     |                      |                       |
|---------------------------------------------------------|---------------------------------------------------------|-------------------|--------------------|---------------------|----------------------|-----------------------|
| <b>Sr. No</b>                                           | <b>A<br/>List of Topics</b>                             | <b>B<br/>Term</b> | <b>C<br/>Marks</b> | <b>MCQ (1 Mark)</b> | <b>SAQ (5 Marks)</b> | <b>LAQ (10 Marks)</b> |
| 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 – Poorvaroop                       | 1                 | 49                 | No                  | Yes                  | Yes                   |
| 12                                                      | 12. Dushya dushti                                       | 1                 |                    | Yes                 | Yes                  | Yes                   |
| 13                                                      | 13. Samprapti                                           | 1                 |                    | No                  | Yes                  | Yes                   |
| 14                                                      | 14. Rupa                                                | 1                 |                    | Yes                 | Yes                  | Yes                   |
| 15                                                      | 15. Vyadhinamakarana                                    | 1                 |                    | Yes                 | Yes                  | No                    |
| 16                                                      | 16. Vyadhi                                              | 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  |
| <b>Total Marks</b> |                                                                             |   | <b>100</b> |     |     |     |

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

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

|    |                                                                                |   |
|----|--------------------------------------------------------------------------------|---|
|    |                                                                                |   |
| 50 | <b>22. Hematopoietic diseases</b>                                              | 2 |
| 51 | <b>23. Hridroga</b>                                                            | 2 |
| 52 | <b>24. Shotha</b>                                                              | 2 |
| 53 | <b>25. Cardiovascular disorders</b>                                            | 2 |
| 54 | <b>26. Kamala</b>                                                              | 2 |
| 55 | <b>27. Udara Roga</b>                                                          | 2 |
| 56 | <b>28. Hepatobiliary diseases</b>                                              | 2 |
| 57 | <b>29. Kushtha - Maha Kushtha &amp; Kshudra Kushtha (According to Charaka)</b> | 3 |
| 58 | <b>30. Sheetapitta</b>                                                         | 3 |
| 59 | <b>31. Shwitra</b>                                                             | 3 |
| 60 | <b>32. Visarpa</b>                                                             | 3 |
| 61 | <b>33. Skin diseases</b>                                                       | 3 |
| 62 | <b>34. Galaganda</b>                                                           | 3 |
| 63 | <b>35. Thyroid disorders</b>                                                   | 3 |
| 64 | <b>36. Sthoulya – Karshya</b>                                                  | 3 |
| 65 | <b>37. Obesity</b>                                                             | 3 |
| 66 | <b>38. Prameha</b>                                                             | 3 |
| 67 | <b>39. Diabetes Mellitus and Pancreatitis</b>                                  | 3 |

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

32

|    |                                                                |   |
|----|----------------------------------------------------------------|---|
| 68 | <b>40. Vatavyadhi</b>                                          | 3 |
| 69 | <b>41. Snayugata vata</b>                                      | 3 |
| 70 | <b>42. Common neurologic and spine disorders</b>               | 3 |
| 71 | <b>43. Sandhigatavata and Asthi majja gata vata</b>            | 3 |
| 72 | <b>44. Diseases of bone, joints, and muscles</b>               | 3 |
| 73 | <b>45. Amavata</b>                                             | 3 |
| 74 | <b>46. Vatarakta</b>                                           | 3 |
| 75 | <b>47. Immunological &amp; Metabolic disorders</b>             | 3 |
| 76 | <b>48. Klaibya &amp; Vandhyatva</b>                            | 3 |
| 77 | <b>49. Sexual dysfunction and Infertility</b>                  | 3 |
| 78 | <b>50. Unmada &amp; Apasmara</b>                               | 3 |
| 79 | <b>51. Vishada</b>                                             | 3 |
| 80 | <b>52. Murchha, and Sanyasa</b>                                | 3 |
| 81 | <b>53. Common Psychiatric diseases</b>                         | 3 |
| 82 | <b>54. Phiranga and Upadamsha</b>                              | 3 |
| 83 | <b>55. Syphilis &amp; Gonorrhoea</b>                           | 3 |
| 84 | <b>56. Krimiroga</b>                                           | 3 |
| 85 | <b>57. Clinical presentation of common parasitic disorders</b> | 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 | No  | No  |
| Yes | No  | No  |
| Yes | No  | No  |
| Yes | No  | 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 |            |     |    |    |  |
| <b>Total Marks</b> |                        |   | <b>100</b> |     |    |    |  |

| Paper No:1  |                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Question No | Type of Question                                                                                                                                                                                                                      | Question Paper Format                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Q1          | <p><b>Multiple choice Questions</b><br/> <b>20 Questions</b><br/> <b>1 mark each</b><br/> <b>All compulsory</b></p> <p><b>Must know part - 15 MCQ</b><br/> <b>Desirable to know - 3 MCQ</b><br/> <b>Nice to know part - 2 MCQ</b></p> | <p>1. 2. Pareeksha<br/> 2. 5. Upashaya/ Anupashaya<br/> 3. 7. Doshagati and Rogamarga<br/> 4. 6. Dosha Vikriti<br/> 5. 8. Srotodushti<br/> 6. 9. Concept of Ama<br/> 7. 12. Dushya dushti<br/> 8. 15. Vyadhinamakarana<br/> 9. 16. Vyadhi<br/> 10. 17. Ashtanindita (Endocrine disorders)<br/> 11. 18. Janapadodhwamsa vikara (Pandemic disorders)<br/> 12. 19. Nidanarthakara Vyadhi, Vyadhisankara<br/> 13. 20. Vyadhikshamatva<br/> 14. 21. Rogi bala Pareeksha<br/> 15. 22. Dhatu Paka<br/> 16. 23. Infection and Nutritional disorders<br/> 17. 27. Sadhyasadyatva – Prognosis / 24. Upadrava<br/> 18. 25. Arishta<br/> 19. 26. Vyadhi bala pareeksha<br/> 20. 28. Digital health and Artificial intelligence in the context of Roganidana</p> |
| Q2          | <p><b>Short answer Questions</b><br/> <b>Eight Questions</b><br/> <b>5 Marks Each</b><br/> <b>All compulsory</b></p> <p><b>Must know - 7 SAQ</b><br/> <b>Desirable to know - 1 SAQ</b><br/> <b>No questions on Nice to know</b></p>   | <p>1. 1. Roga nidana – Pathophysiology and clinical diagnosis / 2. Pareeksha<br/> 2. 11. Sthana samshraya – Poorvaroop / 8. Srotodushti / 12. Dushya dushti / 7. Doshagati and Rogamarga / 6. Dosha Vikriti<br/> 3. 13. Samprapti / 16. Vyadhi / 19. Nidanarthakara Vyadhi, Vyadhisankara / 17. Ashtanindita (Endocrine disorders) / 14. Rupa<br/> 4. 20. Vyadhikshamatva / 21. Rogi bala Pareeksha / 18. Janapadodhwamsa vikara (Pandemic disorders) / 19. Nidanarthakara Vyadhi, Vyadhisankara / 22. Dhatu Paka<br/> 5. 26. Vyadhi bala pareeksha / 27. Sadhyasadyatva – Prognosis / 24. Upadrava<br/> 6. 23. Infection and Nutritional disorders<br/> 7. 10. Assessment of Ama / 9. Concept of Ama<br/> 8. 5. Upashaya/ Anupashaya</p>           |

| <b>Q3</b>         | <p><b>Long answer Questions</b><br/> <b>Four Questions</b><br/> <b>10 marks each</b><br/> <b>All compulsory</b></p> <p><b>All questions on must know. No Questions on Nice to know and Desirable to know</b></p>                      | <p>1. 4. Sapeksha nidana - Vyavacchedaka nidana / 3. Methods of Rogi pareeksha / 12. Dushya dushti / 6. Dosha Vikriti / 2. Pareeksha</p> <p>2. 11. Sthana samshraya – Poorvaroop / 14. Rupa</p> <p>3. 9. Concept of Ama / 22. Dhatu Paka / 8. Srotodushti / 7. Doshagati and Rogamarga</p> <p>4. 20. Vyadhikshamatva / 22. Dhatu Paka</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Paper No:2</b> |                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Question No       | Type of Question                                                                                                                                                                                                                      | Question Paper Format                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Q1</b>         | <p><b>Multiple choice Questions</b><br/> <b>20 Questions</b><br/> <b>1 mark each</b><br/> <b>All compulsory</b></p> <p><b>Must know part - 15 MCQ</b><br/> <b>Desirable to know - 3 MCQ</b><br/> <b>Nice to know part - 2 MCQ</b></p> | <p>1. 1. Agnimandya – Ajeerna, Anaha, Adhmana, Atopa / 2. Chhardi</p> <p>2. 3. Amlapitta / 4. Shoola / 7. Visuchika, Alasaka, Vilambika</p> <p>3. 5. Atisara, and Pravahika / 8. Common GIT diseases</p> <p>4. 13. Shwasa / 15. Rajayakshma &amp; Shosha / 12. Hikka / 14. Kasa</p> <p>5. 16. Common lung disorders</p> <p>6. 11. Common Urinary diseases</p> <p>7. 17. Jwara / 19. Fever / 18. Masurika – Romantika</p> <p>8. 25. Cardiovascular disorders / 22. Hematopoietic diseases</p> <p>9. 28. Hepatobiliary diseases</p> <p>10. 33. Skin diseases</p> <p>11. 35. Thyroid disorders / 34. Galaganda</p> <p>12. 37. Obesity</p> <p>13. 39. Diabetes Mellitus and Pancreatitis</p> <p>14. 42. Common neurologic and spine disorders</p> <p>15. 44. Diseases of bone, joints, and muscles / 47. Immunological &amp; Metabolic disorders</p> <p>16. 48. Klaibya &amp; Vandhyatva / 49. Sexual dysfunction and Infertility</p> <p>17. 51. Vishada / 50. Unmada &amp; Apasmara</p> <p>18. 57. Clinical presentation of common parasitic disorders / 52. Murchha, and Sanyasa</p> <p>19. 54. Phiranga and Upadamsha / 55. Syphilis &amp; Gonorrhoea</p> <p>20. 57. Clinical presentation of common parasitic disorders / 59. Shleepada / 56. Krimiroga / 60. Tuberculosis</p> |

|                  |                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Q2</b></p> | <p><b>Short answer Questions</b><br/><b>Eight Questions</b><br/><b>5 Marks Each</b><br/><b>All compulsory</b></p> <p><b>Must know - 7 SAQ</b><br/><b>Desirable to know - 1 SAQ</b><br/><b>No questions on Nice to know</b></p> | <ol style="list-style-type: none"> <li>5. 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</li> <li>11. Common Urinary diseases / 9. Mutrakrichhra / 10. Mutraghata</li> <li>25. Cardiovascular disorders / 23. Hridroga / 20. Pandu / 17. Jwara / 26. Kamala / 28. Hepatobiliary diseases / 19. Fever / 21. Raktapitta / 22. Hematopoietic diseases / 24. Shotha</li> <li>32. Visarpa / 31. Shwitra / 27. Udara Roga / 29. Kushtha - Maha Kushtha &amp; Kshudra Kushtha (According to Charaka) / 33. Skin diseases / 26. Kamala / 28. Hepatobiliary diseases / 30. Sheetapitta</li> <li>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 &amp; Metabolic disorders</li> <li>57. Clinical presentation of common parasitic disorders / 60. Tuberculosis</li> <li>13. Shwasa / 15. Rajayakshma &amp; Shosha / 12. Hikka / 16. Common lung disorders / 14. Kasa</li> <li>39. Diabetes Mellitus and Pancreatitis / 37. Obesity / 38. Prameha</li> </ol> |
| <p><b>Q3</b></p> | <p><b>Long answer Questions</b><br/><b>Four Questions</b><br/><b>10 marks each</b><br/><b>All compulsory</b></p> <p><b>All questions on must know. No Questions on Nice to know and Desirable to know</b></p>                  | <ol style="list-style-type: none"> <li>13. Shwasa / 5. Atisara, and Pravahika / 1. Agnimandya – Ajeerna, Anaha, Adhmana, Atopa / 6. Grahani / 4. Shoola / 14. Kasa</li> <li>20. Pandu / 17. Jwara / 38. Prameha / 21. Raktapitta / 36. Sthoulya – Karshya / 24. Shotha</li> <li>32. Visarpa / 31. Shwitra / 27. Udara Roga / 29. Kushtha - Maha Kushtha &amp; Kshudra Kushtha (According to Charaka) / 26. Kamala / 30. Sheetapitta</li> <li>40. Vatavyadhi / 43. Sandhigatavata and Asthi majja gata vata / 46. Vatarakta / 41. Snayugata vata</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**6 H Distribution of Practical Exam**

| S.No | Heads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Marks |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1    | <p><b>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)</b></p> <p><b>X-Ray/ECG/ Clinical sign picture/ Slide/ Diagnostic report/ Causative factors</b></p> <p><b>X-Ray (Assessment format):</b></p> <p>On a given X-Ray film (Any of the below):</p> <ul style="list-style-type: none"> <li>• Comment on inspiration and rotation (chest), position, penetration or exposure, and artifacts in a given X-Ray film</li> <li>• 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)</li> </ul> <p><b>ECG (Assessment format):</b></p> <p>On a given Electro Cardio Gram (Any of the below):</p> <ul style="list-style-type: none"> <li>• Determine and comment on rhythm and rate (Paper and pencil method/ Caliper method/ 10-times method/ 1500 method)</li> <li>• P wave interpretation (Location/ Amplitude/ Duration/ Configuration/ Deflection)</li> <li>• PR interval interpretation (Location and duration)</li> <li>• QRS complex interpretation (Location/ Amplitude/ Duration/ Configuration/ Deflection)</li> <li>• ST segment interpretation (Location and deflection)</li> <li>• T wave interpretation (Location/ Amplitude/ Configuration/ Deflection)</li> </ul> <p><b>Clinical sign/ image or picture (Assessment format):</b></p> <p>On a given image of a patient with sign (Any of the below):</p> <ul style="list-style-type: none"> <li>• Identify the sign</li> <li>• Possible aetiologies behind the case</li> <li>• Possible investigations for further confirmation of a case</li> <li>• Differential diagnosis</li> <li>• Diagnose the condition or disease associated with the sign</li> </ul> <p><b>Slide (Assessment format):</b></p> <p>Identify and mention the provisional diagnosis of (Any of the below):</p> <ul style="list-style-type: none"> <li>• Haematology (Peripheral blood smear)</li> <li>• Histopathology (Lung and trachea/ Blood, Spleen and lymph/ Heart and vessels/ Glands/ Liver)</li> <li>• Stool microscopy (Ova, Cyst, Pus cells)</li> </ul> | 30    |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|   | <ul style="list-style-type: none"> <li>• Urine microscopy (Epithelial cells, RBCs, Leukocytes, Casts, Crystals)</li> <li>• Microbiology (Bacterial identification – Shape, Gram+ve/ Gram –ve)</li> <li>• Parasitology (Slide/ Specimen)</li> </ul> <p><b>Diagnostic report (Assessment format):</b><br/>Interpret the report and mention the provisional diagnosis (Any of the below):</p> <ul style="list-style-type: none"> <li>• Hemogram</li> <li>• Liver Function Test (LFT)</li> <li>• Renal Function Test (RFT)</li> <li>• Diabetic profile</li> <li>• Thyroid profile</li> <li>• Lipid profile</li> </ul> <p><b>Causative factors/ Hetu (Assessment format):</b><br/>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):</p> <ul style="list-style-type: none"> <li>• Any specific diet</li> <li>• Any specific regimen</li> <li>• Any specific factor mentioned for causing a disease</li> </ul>                                                                                                                                                                                                                                                                                                                                                 |    |
| 2 | <p><b>Long Case: History taking, Examination, Investigation (Order and interpretation), Differential Diagnosis, Provisional Diagnosis (1 Case X 40 Marks = 40 Marks)</b></p> <p><b>a. History taking (Including communication skills) - 10 Marks</b></p> <p>History taking should cover the following points:</p> <ul style="list-style-type: none"> <li>• AturaVivara (Basic patient details)</li> <li>• Pradhana Vedana with Kala prakarsha (Chief complaints with duration)</li> <li>• Vartamana vyadhi vruttanta (History of present illness)</li> <li>• Poorva vyadhi Vrittanta (Past illness)</li> <li>• Kula vruttanta (Family history)</li> <li>• Chikitsa Vruttanta (Treatment history)</li> <li>• Vayaktika 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.</li> </ul> <p><b>b. Examination &amp; Order and interpretation of investigations – 20 Marks</b></p> <p>The examination should include the following points:</p> <ul style="list-style-type: none"> <li>• General examination including Ashtasthana pareeksha</li> <li>• Systemic examination - Pratyaksha and Anumana Pariksha/ Panchajnanendriyataha Pareeksha (Affected system/ systems), Sroto pareeksha and Mana pareeksha</li> </ul> | 40 |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|   | <p>Investigations should include the following points: • Ordered investigation to patient</p> <ul style="list-style-type: none"> <li>Any further comment on the previously ordered investigations and any further suggestions</li> <li>Interpretation of ordered investigation to the relevant case</li> </ul> <p><b>c. Differential Diagnosis, Provisional Diagnosis, and Final diagnosis. – 10 Marks</b></p> <p>Differential diagnosis and diagnosis (Vyavachedaka nidana and vyadhi vinischaya) should include the following:</p> <ul style="list-style-type: none"> <li>Group of suspicious diseases based on your knowledge on Ayurveda and contemporary science against your observation on patient</li> <li>Justification for inclusion and exclusion of diseases based on pratyatma lakshana</li> <li>Arriving at a final diagnosis based on the clinical acumen</li> <li>Drafting the samprapti ghataka (Involvement of dosha, dushya, indriya, manas, agni, koshta, srotas, srotodushti prakara, udbhava sthana, sanchara sthana vyakta sthana, rogamarga, upadrava, arishta, sadhyasadyata)</li> </ul> |    |
| 3 | <p><b>Demonstration: Clinical examination on the simulator or a patient or Simulated patient (SP) (1 Demonstration X 30 Marks = 30 Marks):</b></p> <p>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):</p> <ul style="list-style-type: none"> <li>Respiratory system examination</li> <li>Cardiovascular System examination</li> <li>Oral cavity and per abdominal examination</li> <li>Nervous system examination</li> <li>Locomotor system examination</li> <li>Integumentary system examination</li> </ul>                                                                                                                                                                  | 30 |
| 4 | <p><b>Viva mark distribution and basic instructions</b></p> <p><b>Conceptual and theoretical questions:</b></p> <p><b>MK:</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 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.

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
|                    | <p>4. Conceptual and theoretical: Some questions should focus on the candidate's understanding of key concepts, theories, and methodologies within their syllabus. This helps evaluate their grasp of foundational knowledge and their ability to apply it.</p> <p>5. Critical thinking: The questions should encourage the candidate to think critically, analyze the subject, and findings, and identify limitations or alternative perspectives.</p> <p>6. Link to existing literature: Some questions can explore the candidate's knowledge and understanding of relevant literature in contemporary science.</p> <p>7. Follow-up questions: It can be effective to ask follow-up questions to probe deeper into the candidate's responses. This helps assess their ability to defend, respond to challenges, and think on their feet.</p> <p>8. Avoid leading questions: It is important to avoid leading questions that provide the candidate with clues or guide them towards a specific answer. The goal is to assess their independent thinking and understanding.</p> <p>9. Balance: The questions should strike a balance between being challenging and fair. It should push the candidate's limits without being excessively difficult or intimidating.</p> <p>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 Desirable to Know category by the examiner.</p> |            |
| 5                  | Internal assessments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 30         |
| <b>Total Marks</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>200</b> |

| S.No | Book                                                             | Resources                                                                                                                                              |
|------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 1. Madhava Nidana                                                | Srikanta Murthy KR. Madhava Nidanam (Rogaviniscaya) of Madhavakara. Varanasi: Chaukhambha Orientalia; 2013                                             |
| 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; Eighth 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 <sup>th</sup> 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 <sup>th</sup> 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                                                                                     |

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| 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 <sup>th</sup> 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)                                                                          |
| 28 | 28. Textbook of Medical Laboratory Technology                                                                       | Revised Reprint 2021; B. Godkar, Darshan P. Godkar; Bhalani publishing house                                                               |
| 29 | 29. Practical biochemistry for medical, dental and allied courses                                                   | 3 <sup>rd</sup> Edition; by Bd Toora G Rajagopal (Author)                                                                                  |
| 30 | 30. Essential of clinical pathology                                                                                 | 2010; First edition; Jaypee Brothers Medical Publishers; by Shirish M Kawthalkar (Author)                                                  |
| 31 | 31. Textbook of human parasitology protozoology and helminthology                                                   | 2020; CBS Publishers by Sood R. (Author)                                                                                                   |
| 32 | 32. Clinical Pathology & Clinical Bacteriology (For Medical Students and Practitioners)                             | Jaypee Brothers Medical Publishers; 9 <sup>th</sup> Edition; 2000 by Sachdev (Author)                                                      |
| 33 | 33. Practical Pathology                                                                                             | Arya Publications; by K. Uma Chaturvedi (Author), Tejindar Singh (Author)                                                                  |
| 34 | 34. Text book on clinical biochemistry and hematology                                                               | Naveen Chandra, Anmol Publisher ; First edition, 2015                                                                                      |

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|----|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 35 | 35. Medical Laboratory Technology                         | Third Edition, 2019; NCBA publishers by C R Maiti                                                                                                                                                  |
| 36 | 36. Diagnosis and Treatment of Common Skin Diseases       | 2016; Jaypee Brothers Medical Publishers; by Virendra N Sehgal (Author)                                                                                                                            |
| 37 | 37. Ananthanarayan and Paniker's Textbook of Microbiology | Eleventh Edition; 2020; Universities Press (India) Pvt. Ltd; by R Ananthanarayan and CK Jayaram Paniker (Author), Reba Kanungo (Editor)                                                            |
| 38 | 38. Learning Radiology: Recognizing the Basics            | 2015; Saunders publishers; by William Herring MD FACR (Author)                                                                                                                                     |
| 39 | 39. Radiology in Medical Practice                         | 2015; Elsevier India; by A B M Abdullah (Author)                                                                                                                                                   |
| 40 | 40. Clark's Positioning in Radiography                    | 13 <sup>th</sup> Edition; 2015; CRC Press; by A. Stewart Whitley (Author), Gail Jefferson (Author), Ken Holmes (Author), Charles Sloane (Author), Craig Anderson (Author), Graham Hoadley (Author) |
| 41 | 41. Textbook Of Radiology For Residents And Technicians   | 2018; CBS Publishers; by Bhargava S. K (Author)                                                                                                                                                    |
| 42 | 42. Essentials Of ECG                                     | 2017; Avichal Publishing Company; by Vipin Gupta (Author)                                                                                                                                          |
| 43 | 43. Nidana chikitsa hastamalaka                           | 2016; Baidyanath Ayurved publication; by Vaidya Ranjit Rai Desai                                                                                                                                   |
| 44 | 44. Rasavaisheshikam                                      | Kottakal Ayurveda Series:120; 3 <sup>rd</sup> Edition; 2014; by K. Raghavan Tirumulpad                                                                                                             |
| 45 | 45. Taber's Cyclopedic Medical Dictionary                 | 23 <sup>rd</sup> Edition; 2017; F.A. Davis Company; by Venes (Author)                                                                                                                              |
| 46 | 46. Doshakaranatwa Mimamsa                                | Chowkhamba Bharati Academy ; 2013; by Acharya P.V. Sharma                                                                                                                                          |
| 47 | 47. Nadi Darshan                                          | Motilal Banarsidass publishers; by Vaidya Tara Shankar Mishra                                                                                                                                      |
| 48 | 48. Ayurvediya shabdakosha                                | Laxmanshastri Joshi, Maharashtra Rajya Sahitya Mandal; 1968; by Veni Madhava Shastri                                                                                                               |
| 49 | 49. Kayachikitsa                                          | Indrayani Sahithya Prakashan; 2015; by Vd Yashwant Govind Joshi                                                                                                                                    |
| 50 | 50. Dermatological Diseases A Practical Approach          | 3rd Edition – 2023; TreeLife Media (A division of Kothari Medical); by (Author), Venkataram Mysore, K H Satyanarayana Rao, Sacchidanand S, M Deepthi, (Editor)                                     |
| 51 | 51. Introduction to Kayachikitsa                          | Chaukhamba Orientalia Varanasi; 3 <sup>rd</sup> Edition; 1996; C. Dwarakanath                                                                                                                      |

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| 52 | 52. Digestion and metabolism in Ayurveda | Chowkhambha Krishnadas Academy; 1997; 2 <sup>nd</sup> Edition; by C. Dwarakanath                                                                                                                                                    |
| 53 | 53. Ayurvedic Nadi Pariksha Vijnana      | Chaukhamba Surbharati Prakashan; 2015; by Dr. Govind Prasad Upadhyay                                                                                                                                                                |
| 54 | 54. NAMASTE portal                       | <a href="http://namstp.ayush.gov.in/#/index">http://namstp.ayush.gov.in/#/index</a>                                                                                                                                                 |
| 55 | 55. AYUR PRAKRITI WEB PORTAL             | <a href="http://www.ccras.res.in/ccras_pas/">http://www.ccras.res.in/ccras_pas/</a>                                                                                                                                                 |
| 56 | 56. AYUSH research portal                | <a href="https://ayushportal.nic.in/">https://ayushportal.nic.in/</a>                                                                                                                                                               |
| 57 | 57. Dharaonline                          | <a href="http://www.dharaonline.org/Forms/Home.aspx">http://www.dharaonline.org/Forms/Home.aspx</a>                                                                                                                                 |
| 58 | 58. Stanford Medicine25                  | <a href="https://stanfordmedicine25.stanford.edu/">https://stanfordmedicine25.stanford.edu/</a>                                                                                                                                     |
| 59 | 59. Medscape Clinical Reference          | <a href="http://www.medscape.com">www.medscape.com</a>                                                                                                                                                                              |
| 60 | 60. UpToDate                             | <a href="http://www.uptodate.com">www.uptodate.com</a>                                                                                                                                                                              |
| 61 | 61. Merck Manual Professional Edition    | <a href="http://www.merckmanuals.com/professional">www.merckmanuals.com/professional</a>                                                                                                                                            |
| 62 | 62. DynaMed                              | <a href="http://www.dynamed.com">www.dynamed.com</a>                                                                                                                                                                                |
| 63 | 63. ClinicalKey                          | <a href="http://www.clinicalkey.com">www.clinicalkey.com</a>                                                                                                                                                                        |
| 64 | 64. Taber's Medical Dictionary           | <a href="http://www.tabers.com/tabersonline">www.tabers.com/tabersonline</a>                                                                                                                                                        |
| 65 | 65. MedlinePlus Medical Dictionary       | <a href="https://medlineplus.gov/">https://medlineplus.gov/</a>                                                                                                                                                                     |
| 66 | 66. WebMD Symptom Checker                | <a href="https://symptoms.webmd.com/">https://symptoms.webmd.com/</a>                                                                                                                                                               |
| 67 | 67. Mayo Clinic Symptom Checker          | <a href="https://www.mayoclinic.org/symptom-checker/select-symptom/itt-20009075">https://www.mayoclinic.org/symptom-checker/select-symptom/itt-20009075</a>                                                                         |
| 68 | 68. Simulated cases EM SIM CASES         | <a href="https://emsimcases.com/">https://emsimcases.com/</a>                                                                                                                                                                       |
| 69 | 69. Daily rounds                         | <a href="https://dailyrounds.org/">https://dailyrounds.org/</a>                                                                                                                                                                     |
| 70 | 70. Prognosis                            | <a href="https://play.google.com/store/apps/details?id=com.medicalj oyworks.prognosis&amp;hl=en&amp;gl=US&amp;pli=1">https://play.google.com/store/apps/details?id=com.medicalj oyworks.prognosis&amp;hl=en&amp;gl=US&amp;pli=1</a> |
| 71 | 71. PubMed Central                       | <a href="https://www.ncbi.nlm.nih.gov/pmc/">https://www.ncbi.nlm.nih.gov/pmc/</a>                                                                                                                                                   |
| 72 | 72. Radiopaedia                          | <a href="https://radiopaedia.org/">https://radiopaedia.org/</a>                                                                                                                                                                     |

## 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 | PM           | Patient management problems  |
| 37 | CHK          | 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 | COM          | Compilations                 |
| 46 | Portfolios   | Portfolios                   |
| 47 | Log book     | Log book                     |
| 48 | TR           | Trainers report              |
| 49 | SA           | Self-assessment              |
| 50 | PA           | 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    | CK         | Cognitive/Knowledge         |
| 2    | CC         | Cognitive/Comprehension     |
| 3    | CAP        | 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 | PT    | Practical                 |
| 34 | XRy   | 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                 |
|    |       |                           |
|    |       |                           |