## Faculty of Indian Medical System KRIYA SHARIR (PHYSIOLOGY)

| Sl.No | Topic   | DOMAIN    | Time    |
|-------|---|-----------|---------|
|       | AYURVEDIC PART -PAPER I   | <u> </u>  |         |
| 1.    | 1. Conceptual study of fundamental principles of Ayurvediya Kriya Sharir e.g - Panchamahabhuta, Tridosha, Triguna, Loka-Purusha Samya, Samanya-Vishesha. Description of basics of Srotas.   | Must know | 3 hours |
| 2.    | 2. Definition and synonyms of the terms:  Sharir, definition and synonyms of term Kriya, description of Sharir Dosha and Manasa Dosha. Mutual relationship between Triguna- Tridosha & Panchmahabhuta. Difference between Shaarir and Sharir. Description of the components of Purusha and classification of Purusha, role of Shatdhatupurusha in Kriya Sharira and Chikitsa. | Must Know | 4 hours |
| 3.    | 3. Dosha- General description of Tridosha. Inter relationship between Ritu-Dosha-Rasa-Guna. Biological rhythms of Tridosha on the basis of day-night-age-season and food intake. Role of Dosha in the formation of Prakriti of an individual and in maintaining of health. Prakrita and Vaikrita Dosha.   | Must Know | 4 hours |
| 4.    | 4. Vata Dosha:  Vyutpatti (derivation), Nirukti   | Must Know | 6 hours |

|    | (etymology) of the term Vata, general locations, general properties and general functions of Vata, five types of Vata (Prana, Udana, Samana, Vyana, Apana) with their specific locations, specific properties, and Respiratory Physiology in Ayurveda, Physiology of speech in Ayurveda   |              |         |
|----|---|--------------|---------|
| 5. | 5. Pitta Dosha:  Vyutpatti, Nirukti of the term Pitta, general locations, general properties and general functions of Pitta, five types of Pitta (Pachaka, Ranjaka, Alochaka, Bhrajaka, Sadhaka) with their specific locations, specific properties, and specific functions. Similarities and differences between Agni and Pitta. | Must Know    | 6 hours |
| 6. | 6. Kapha Dosha:  Vyutpatti, Nirukti of the term Kapha, general locations, general properties and general functions of Kapha, five types of Kapha (Bodhaka, Avalambaka, Kledaka, Tarpaka, Śleshaka ) with their specific locations, specific properties, and specific functions.   | Must Know    | 4 hours |
| 7. | 7. Etiological factors<br>responsible for:<br>Dosha Vriddhi, Dosha Kshaya and<br>their manifestations   | Nice to know | 2 hours |
| 8. | 8. Concept of Kriyakala.  | Must Know    | 3 hours |
| 9. | 9. Prakriti:  | Must Know    |         |

|     | a) Deha- Prakriti: Vyutpatti, Nirukti, various definitions and synonyms for the term "Prakriti".  Intra-uterine and extra-uterine factors influencing Deha-Prakriti, classification and characteristic features of each kind of Deha- Prakriti.  b) Manasa- Prakriti: Introduction and types of Manasa- Prakriti.                         |              | 5 hours |
|-----|---|--------------|---------|
| 10. | 10. Ahara:  Definition, classification and significance of Ahara,  Ahara-vidhi-vidhana,  Ashta Aharavidhi Viseshayatana,  Ahara Parinamkar Bhava.   | Must Know    | 5 hours |
| 11. | 11. Aharapaka (Process of digestion):  Description of Annavaha Srotas and their Mula. Role of Grahani & Pittadhara Kala.  | Nice to know | 3 hours |
| 12. | 12. Description of Avasthapaka (Madhura, Amla and Katu).  Description of Nishthapaka (Vipaka) and its classification. Separation of Sara and Kitta. Absorption of Sara. Genesis of Vata-Pitta-Kapha during Aharapaka process.  Definition of the term Koshtha. Classification of Koshtha and the characteristics of each type of Koshtha. | Nice to know | 5 hours |

|     |  |                      | <u> </u>        |
|-----|--|----------------------|-----------------|
|     |  |                      |                 |
| 13. | 13. Agni –  Definition and importance, synonyms, classification, location, properties and functions of Agni and functions of Jatharagni, Bhutagni, and Dhatvagni.  | Must Know            | 5 hours         |
|     | MODERN PHYSIOLOGY-PAPER I  |                      |                 |
| 14. | a) Definition and mechanisms of maintenance of homeostasis.  Cell physiology. Membrane physiology.  Transportation of various substances across cell membrane.  b) Resting membrane potential and action potential.                        | Desirable to<br>Know | 3 hours 2 hours |
| 15. | c) Physiology of respiratory system:  functional anatomy of respiratory system.  Definition of ventilation, mechanism of respiration, exchange and transport of gases, neural and chemical control of respiration, artificial respiration, | Must Know            | 6 hours         |

|     | asphyxia, hypoxia.  |              |         |
|-----|---|--------------|---------|
|     | ασριτγλία, πγρολία.   |              |         |
|     | Introduction to Pulmonary   |              |         |
|     | Function Tests.   |              |         |
| 16. | d) Physiology of Nervous System:  General introduction to nervous system, neurons, mechanism of propagation of nerve impulse, physiology of CNS, PNS, ANS; physiology of sensory and motor nervous system,  Functions of different parts of brain and physiology of special senses, intelligence, memory,   | Nice to know | 9 hours |
|     | learning and motivation.  Physiology of sleep and dreams, EEG.  Physiology of speech and articulation.  Physiology of temperature regulation.   |              |         |
| 17. | e)GIT  Functional anatomy of gastro- intestinal tract, mechanism of secretion and composition of different digestive juices. Functions of salivary glands, stomach, liver, pancreas, small intestine and large intestine in the process of digestion and absorption. Movements of the gut (deglutition, peristalsis, defecation) and their control. Enteric nervous system. | Must Know    | 5 hours |
| 18. | f) Acid-base balance, water and electrolyte balance.  Study of basic components of food.  Digestion and metabolism of   | Nice to know |         |

|     |  |              | T -     |
|-----|--|--------------|---------|
|     | proteins, fats and carbohydrates.  |              | 7 hours |
|     | Vitamins & Minerals- sources, daily requirement, functions, manifestations of hypo and hypervitaminosis  |              |         |
|     | AYURVEDIC PART- PAPER II   |              |         |
| 10  |  | Must Know    |         |
| 19. | 1. <b>Dhatu:</b> Etymology, derivation, definition, general introduction of term Dhatu, different theories related to Dhatuposhana (Dhatuposhana Nyaya)  | Must Know    | 5 hours |
| 20. | 2. Rasa Dhatu: Etymology, derivation, location, properties, functions and Praman of Rasa-dhatu. Physiology of Rasavaha Srotas, Formation of Rasa Dhatu from Aahara Rasa, circulation of Rasa (Rasa-Samvahana), role of Vyana Vayu and Samana Vayu in Rasa Samvahana. Description of functioning of Hridaya. Ashtavidha Sara (8 types of Sara), characteristics of Tvakasara Purusha, conceptual study of mutual interdependence (Aashraya-Aashrayi Bhaava) and its relation to Rasa and Kapha. Manifestations of kshaya and Vriddhi of Rasa. | Must Know    | 5 hours |
| 21. | 3. Rakta Dhatu: Etymology, derivation, synonyms, location, properties, functions and Praman of Rakta Dhatu. Panchabhautikatva of Rakta Dhatu, physiology of Raktavaha Srotas, formation of Raktadhatu, Ranjana of Rasa by Ranjaka Pitta, features of Shuddha Rakta, specific functions of Rakta, characteristics of Raktasara Purusha, manifestations of Kshaya and Vriddhi of Raktadhatu, mutual interdependence of Rakta and Pitta.  | Must Know    | 8 hours |
| 22. | 4. Mamsa Dhatu: Etymology, derivation, synonyms, location, properties and functions of Mamsa Dhatu, physiology of Mamsavaha Srotasa, formation of Mamsa Dhatu, characteristics of Mamsasara Purusha, manifestations of Kshaya and Vriddhi of Mamsa Dhatu. Concept of Peshi.  | Nice to know | 1 hour  |
| 23. | <b>5. Meda Dhatu :</b> Etymology, derivation, location,  |              |         |

|     |  | Г            | T       |
|-----|--|--------------|---------|
|     | properties, functions and Praman of Meda   |              | 1 hour  |
|     | Dhatu, physiology of Medovaha Srotas,      |              |         |
|     | formation of Medo Dhatu, characteristics   | Nice to know |         |
|     | of Medasara Purusha and manifestations     |              |         |
|     | of Kshaya and Vriddhi of Meda.             |              |         |
| 24. | 6. Asthi Dhatu:                            |              |         |
|     | Etymology, derivation, synonyms, location, |              |         |
|     | properties, functions of Asthi Dhatu.      |              | 1 hour  |
|     | Number of Asthi. Physiology of Asthivaha   | Nice to lune | 11.00.  |
|     | Srotas and formation of Asthi Dhatu,       | Nice to know |         |
|     | characteristics of Asthisara Purusha,      |              |         |
|     | mutual interdependence of Vata and Asthi   |              |         |
|     | Dhatu, manifestations of Kshaya and        |              |         |
|     | Vriddhi of Asthi Dhatu.                    |              |         |
| 25. | 7. Majja Dhatu :                           |              |         |
| 23. | Etymology, derivation, types, location,    |              |         |
|     | properties, functions and Praman of Majjaa |              | 1 5 5   |
|     | Dhatu, physiology of Majjavaha Srotas,     | Nice to know | 1 hour  |
|     | formation of Majja Dhatu, characteristics  |              |         |
|     | of Majja Sara Purusha, relation of Kapha,  |              |         |
|     | Pitta, Rakta and Majja, manifestations of  |              |         |
|     | Kshaya and Vriddhi of Majja Dhatu.         |              |         |
|     |  |              |         |
| 26. | 8. Shukra Dhatu:                           |              |         |
|     | Etymology, derivation, location,           | Must Know    |         |
|     | properties, functions and Praman of Shukra |              |         |
|     | Dhatu, physiology of Shukraravaha Srotas   |              |         |
|     | and formation of Shukra Dhatu. Features of |              | 1 hour  |
|     | Shuddha Shukra, characteristics of Shukra- |              |         |
|     | Sara Purusha, manifestations of Kshaya     |              |         |
|     | and Vriddhi of Shukra Dhatu.               |              |         |
|     |  |              |         |
|     |  |              |         |
| 27. |  |              |         |
|     | 9. Concept of Ashraya-Ashrayi              |              |         |
|     | bhava i.e. inter-relationship              | Nice to know | 1 hour  |
|     | among Dosha, Dhatu Mala and                | THE COMMON   |         |
|     | Srotas.                                    |              |         |
|     |  |              |         |
| 28. |  |              |         |
|     | 10. Ojas:                                  |              |         |
|     |  |              |         |
|     | Etymological derivation,                   |              |         |
|     | definition, formation, location,           | Must Know    |         |
|     | properties, Praman, classification         | IVIUST KIIOW |         |
|     | and functions of Ojas. Description         |              | 3 hours |
|     | of Vyadhikshamatva.                        |              | 3 Hours |
|     | ,  |              |         |
|     |  |              |         |
|     | Bala Vriddhikara Bhava.                    |              |         |
|     | Classification of Bala. Etiological        |              |         |
|     | factors and manifestations of              |              |         |
|     | Ojavisramsa, Vyapat and Kshaya.            |              |         |
|     | Sjavisiainsa, vyapat ana Kshaya.           |              |         |
| 20  | 11. Upadhatu:                              |              |         |
| 29. | -  |              |         |
| •   | General introduction, etymological         | 1            | I       |

|     | derivation and definition of the term Upadhatu. Formation, nourishment, properties, location and functions of each Upadhatu.  | Must Know    | 7 hours |
|-----|---|--------------|---------|
|     | a) Stanya: Characteristic features and methods of assessing Shuddha and Dushita Stanya, manifestations of Vriddhi and Kshaya of Stanya.   |              |         |
|     | b) Artava: Characteristic features<br>of Shuddha and Dushita Artava.<br>Differences between Raja and<br>Artava, physiology of Artavavaha<br>Srotas.   |              |         |
|     | c) Tvak: classification, thickness of each layer and functions.   |              |         |
| 30. | 12. Mala:   |              |         |
|     | Etymological derivation and definition of the term Mala. Aharamala: Enumeration and description of the process of formation of Aharamala.   | Nice to know |         |
|     | a) Purisha: Etymological derivation, definition, formation, properties, quantity and functions of Purisha. Physiology of Purishavaha Srotas, manifestations of Vriddhi and Kshhaya of Purisha.                                    |              | 3 hours |
|     | b) Mutra: Etymological derivation, definition, formation, properties, quantity and functions of Mutra. Physiology of Mutravaha Srotas, physiology of urine formation in Ayurveda, manifestations of Vriddhi and Kshhaya of Mutra. |              |         |
|     | c) Sveda: Etymological derivation, definition, formation and functions of Sveda. Manifestations of Vriddhi and Kshaya of Sveda. Discription of Svedvaha Strotas d) Dhatumala: Brief description of                                |              |         |
|     | each type of Dhatumala  |              |         |
|     |   |              |         |
|     |   |              |         |

| 13. Panchagyanendriya: Physiological description of Panchagyaanendriya and physiology of perception of Shabda, Sparsha, Rupa, Rasa and Gandha. Physiological description of Karmendriya.   | Must Know  | 6 hours  |
|--|--|--|
| 14. Manas: Etymological derivation, definition, synonyms, location, properties, functions and objects of Manas. Physiology of Manovaha Srotas.   | Desirable to<br>Know   | 1 hour   |
| 15. Atma: Etymological derivation, definition, properties of Atma. Difference between Paramatma and Jivatma; Characteristic features of existence of Atma in living body.  | Good to know   | 1 hour   |
| 16. Nidra: Nidrotpatti, types of Nidra, physiological and clinical significance of Nidra; Svapnotpatti and types of Svapna   | Must Know  | 3 hours  |
| MODERN PHYSIOLOGY-PAPER II   |  |  |
| 1. Haemopoetic system – composition, functions of blood and blood cells, Haemopoiesis (stages and development of RBCs, and WBCs and platelets), composition and functions of bone marrow, structure, types and functions of haemoglobin, mechanism of blood clotting, anticoagulants, physiological basis of blood groups, plasma proteins, introduction to anaemia and jaundice | Must Know  | 9 hours  |
| Immunity,  classification of immunity:   |  | 6 hours  |
|  | Physiological description of Panchagyaanendriya and physiology of perception of Shabda, Sparsha, Rupa, Rasa and Gandha. Physiological description of Karmendriya.  14. Manas: Etymological derivation, definition, synonyms, location, properties, functions and objects of Manas. Physiology of Manovaha Srotas.  15. Atma: Etymological derivation, definition, properties of Atma. Difference between Paramatma and Jivatma; Characteristic features of existence of Atma in living body.  16. Nidra: Nidrotpatti, types of Nidra, physiological and clinical significance of Nidra; Svapnotpatti and types of Svapna  MODERN PHYSIOLOGY-PAPER II  1. Haemopoetic system — composition, functions of blood and blood cells, Haemopoiesis (stages and development of RBCs, and WBCs and platelets), composition and functions of bone marrow, structure, types and functions of haemoglobin, mechanism of blood clotting, anticoagulants, physiological basis of blood groups, plasma proteins, introduction to anaemia and jaundice  2. Immunity, | Physiological description of Panchagyaanendriya and physiology of perception of Shabda, Sparsha, Rupa, Rasa and Gandha. Physiological description of Karmendriya.  14. Manas: Etymological derivation, definition, synonyms, location, properties, functions and objects of Manas. Physiology of Manovaha Srotas.  15. Atma: Etymological derivation, definition, properties of Atma. Difference between Paramatma and Jivatma; Characteristic features of existence of Atma in living body.  16. Nidra: Nidrotpatti, types of Nidra, physiological and clinical significance of Nidra; Svapnotpatti and types of Svapna  MODERN PHYSIOLOGY-PAPER II  1. Haemopoetic system – composition, functions of blood and blood cells, Haemopoiesis (stages and development of RBCs, and WBCs and platelets), composition and functions of bone marrow, structure, types and functions of haemoglobin, mechanism of blood clotting, anticoagulants, physiological basis of blood groups, plasma proteins, introduction to anaemia and jaundice  2. Immunity, |

| 37. | Innate, acquired and artificial. Different mechanisms involved in immunity: Humoral (B-cell mediated) and T-Cell mediated immunity. Hypersensitivity  3. Muscle physiology –  | Must Know    |         |
|-----|---|--------------|---------|
|     | comparison of physiology of skeletal muscles, cardiac muscles and smooth muscles. Physiology of muscle contraction.   | Nice to know | 2 hours |
| 38. | 4. Physiology of cardiovascular system:  Functional anatomy of cardiovascular system. Cardiac cycle. Heart sounds. Regulation of cardiac output and venous return. Physiological basis of ECG. Heart-rate and its regulation. Arterial pulse. Systemic arterial blood pressure and its control. | Must Know    | 7 hours |
| 39. | 5. Adipose tissue, lipoproteins like VLDL, LDL and HDL triglycerides.   | Nice to know | 2 hours |
| 40. | 6. Functions of skin, sweat glands and sebaceous glands.  | Nice to know | 2 hours |
| 41. | 7. Physiology of male and female reproductive systems. Description of ovulation, spermatogenesis, oogenesis, menstrual cycle.   | Must Know    | 3 hours |
| 42. | 8. Physiology of Excretion – functional anatomy of urinary  |              |         |

| 43. | tract, functions of kidney.  Mechanism of formation of urine, control of micturition. Formation of faeces and mechanism of defecation.  9. Endocrine glands – General introduction to endocrine system, classification and characteristics of hormones, physiology of all endocrine glands, their functions and their effects. | Must Know  Must Know | 4 hours  9 hours |
|-----|--|----------------------|------------------|
|     | PRACTICALS   |                      |                  |
| 44. | Ayurvedic practical  1. Assessment of Prakriti  2. Assessment of Dosha (Features of Vriddhi- Kshaya  3. Assessment of Dhatu (Features of Vriddhi- Kshaya)  4. Assessment of Agni  5. Assessment of Koshtha  6. Assessment of Sara  7. Nadi pariksha  | Must Know            | 9 hours          |
| 45. | 1. Introduction to laboratory instruments- Simple & Compound Microscope, Scalp vein set, bulbs for blood collection, Sahli"s Haemometer, Haemocytometer, pipettes, Urinometer, Albuminometer, Stethoscope, B.P. Apparatus, Harpenden"s caliper, Clinical Hammer,   | Nice to know         | 34 hours         |
| 46. | Tuning Fork, Stop Watch, Thermometer, Centrifuge machine, ECG Machine  2. Collection of blood sample – prick, vene-puncture method, use of anticoagulants  | Nice to know         | 6 hours          |

|     | 1   | 1            | 1        |
|-----|---|--------------|----------|
| 47. | 3. Preparation of blood smear and staining  | Must know    | 8 hours  |
| 48. | 4. Estimation of Hemoglobin   | Must know    | 6 hours  |
| 49. | 5. Microscopic examination of blood a. Total RBC count b. Total WBC count c. Differential leucocyte count   | Must know    | 22 hours |
| 50. | 6. Packed cell volume (PCV) demonstration   | Nice to know | 2 hours  |
| 51. | 7. ESR demonstration  | Nice to know | 4 hours  |
| 52. | 8. Bleeding time, Clotting time 9. Blood grouping and Rh typing   | Must Know    | 12 hours |
| 53. | 10. Examination of Cardio-Vascular system a. Pulse examination b. Arterial blood pressure measurement c. Examination of heart sounds d. ECG demonstration | Must Know    | 16 hours |
| 54. | 11. Examination of Respiratory system a. Respiratory rate b. Breath sounds c. Spirometry  | Must Know    | 16 hours |

| 55. | 12. Examination of Nervous System- Sensory & Motor.  |              | 20 hours |
|-----|--|--------------|----------|
|     |  | Nice to know |          |
| 56. | 13. Urine examination –Physical examination, chemical examination. Test for normal constituents of urine. Detection of specific gravity and reaction of urine. | Must Know    | 22 hours |

## **CURRICULUM PLANNING**

| SI. no | Topic  | Methodology      | Teaching guidelines  | Time    |
|--------|--|------------------|--|---------|
|        | AYURVEDIC PART -PAPER I  |                  |  |         |
| 1.     | 1. Conceptual study of fundamental principles of Ayurvediya Kriya Sharir e.g - Panchamahabhuta, Tridosha, Triguna, Loka-Purusha Samya, Samanya-Vishesha. Description of basics of Srotas.  | Didactic OHP PBL | To cover the basic concepts of ayurveda  | 3 hours |
| 2.     | 2. Definition and synonyms of the terms:  Sharir, definition and synonyms of term Kriya, description of Sharir Dosha and Manasa Dosha.  Mutual relationship between Triguna- Tridosha & Panchmahabhuta.  Difference between Shaarir and Sharir.  Description of the components of Purusha and classification of Purusha, role of Shatdhatupurusha in | Didactic PBL OHP | To cover the concepts of human physiology and know the importance of the subject clinically as well. | 4 hours |

|    | Kriya Sharira and Chikitsa.   |   |   |         |
|----|---|---|---|---------|
| 3. | 3. Dosha- General description of Tridosha. Inter relationship between Ritu-Dosha-Rasa-Guna. Biological rhythms of Tridosha on the basis of day-night-age-season and food intake. Role of Dosha in the formation of Prakriti of an individual and in maintaining of health. Prakrita and Vaikrita Dosha.                                 | Didactic  PBL  OHP  COMPILATION (STUDENT SEMINAR)  POSTER PRESENTATION    | To cover all three doshas and its mutual relationship with riturasa-guna-day night-age —prakriti etc. | 4 hours |
| 4. | 4. Vata Dosha:  Vyutpatti (derivation), Nirukti (etymology) of the term Vata, general locations, general properties and general functions of Vata, five types of Vata (Prana, Udana, Samana, Vyana, Apana) with their specific locations, specific properties, and Respiratory Physiology in Ayurveda, Physiology of speech in Ayurveda | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION  (STUDENT  SEMINAR) | To cover vata dosha and its importance  | 6 hours |
| 5. | 5. Pitta Dosha:  Vyutpatti, Nirukti of the term Pitta, general locations, general properties and general functions of Pitta, five types of Pitta (Pachaka, Ranjaka, Alochaka, Bhrajaka, Sadhaka) with their specific locations, specific properties, and specific functions. Similarities and differences between Agni                  | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION  (STUDENT  SEMINAR) | To cover pitta dosha and its importance   | 6 hours |

|    | and Pitta.  |   |  |         |
|----|---|---|--|---------|
| 6. | 6. Kapha Dosha:  Vyutpatti, Nirukti of the term Kapha, general locations, general properties and general functions of Kapha, five types of Kapha (Bodhaka, Avalambaka, Kledaka, Tarpaka, Śleshaka ) with their specific locations, specific properties, and specific functions. | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION  (STUDENT  SEMINAR) | To cover kapha dosha and its importance  | 4 hours |
| 7. | 7. Etiological factors responsible for:  Dosha Vriddhi, Dosha Kshaya and their manifestations   | Didactic  PBL  Group Discussion  COMPILATION (STUDENT SEMINAR)            | To cover the causes of kshaya-vridhi of doshas   | 2 hours |
| 8. | 8. Concept of Kriyakala.  | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION  (STUDENT  SEMINAR) | To cover the pathogenesis of disease, and importance of each kala.   | 3 hours |
| 9. | 9. Prakriti:  b) Deha- Prakriti: Vyutpatti, Nirukti, various definitions and synonyms for the term "Prakriti". Intra-uterine and extra- uterine factors influencing Deha-Prakriti, classification and characteristic features of each kind of Deha-                             | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION  (STUDENT  SEMINAR) | To cover the basic phenotypic-genotypic constitution of individual & clinical importance of prakriti finding | 5 hours |

|     | Prakriti.   | Group Discussion   |  |         |
|-----|---|--|--|---------|
|     | b) Manasa- Prakriti:<br>Introduction and types of   | Case Presentation  |  |         |
|     | Manasa- Prakriti.   | PPT  |  |         |
|     |   | SIS  |  |         |
| 10. | 10. Ahara:  Definition, classification and  | PBL  | To cover the classification-importance-Of ahara-factors for                |         |
|     | significance of Ahara,  Ahara-vidhi-vidhana,  Ashta Aharavidhi Viseshayatana,  Ahara Parinamkar Bhaya.  | POSTER PRESENTATION COMPILATION (STUDENT   | proper digestion-rules<br>followed while having<br>food                    | 5 hours |
|     | Anara i amiamkai bilava.  | SEMINAR)   |  |         |
| 11. | 11. Aharapaka (Process of digestion):  Description of Annavaha Srotas and their Mula. Role of Grahani & Pittadhara  | Didactic  PBL  OHP  POSTER   | To cover process of digestion, importance of grahani pradesh               | 3 hours |
|     | Kala.   | PRESENTATION  COMPILATION(ST  UDENTSEMINAR)  |  | 3 Hours |
| 12. | 12. Description of Avasthapaka (Madhura, Amla and Katu).  Description of Nishthapaka (Vipaka) and its classification. Separation of Sara and Kitta. Absorption of Sara. Genesis of Vata-Pitta-Kapha during Aharapaka process.  Definition of the term Koshtha. Classification of Koshtha and the characteristics of each type of Koshtha. | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION(ST  UDENTSEMINAR)  Case Presentation | To cover different stages of digestion, clinical importance of vipaka etc. | 5 hours |

| 13. |   | Didactic          |                           |          |
|-----|---|-------------------|---------------------------|----------|
| 15. | 13. Agni –  |                   | To cover importance of    |          |
|     | -   | PBL               | agni                      | 5 hours  |
|     | Definition and importance, synonyms, classification, location, properties and | ОНР               |                           |          |
|     | functions of Agni and   | POSTER            |                           |          |
|     | functions of Jatharagni,  | PRESENTATION      |                           |          |
|     | Bhutagni, and Dhatvagni.  |                   |                           |          |
|     |   | COMPILATION(ST    |                           |          |
|     |   | UDENTSEMINAR)     |                           |          |
|     |   | Case Presentation |                           |          |
|     | MODERN PHYSIOLOGY-  |                   |                           |          |
|     | PAPER I   |                   |                           |          |
| 14. |   | Didactic          | To cover cell physiology, |          |
|     | b) Definition and   | PBL               | maintainance of           |          |
|     | mechanisms of<br>maintenance of   | FDL               | homeostasis               |          |
|     | homeostasis.  | ОНР               |                           | 3 hours  |
|     |   |                   |                           |          |
|     | Cell physiology.<br>Membrane  | POSTER            |                           |          |
|     | physiology.   | PRESENTATION      |                           |          |
|     |   | COMPILATION(ST    |                           |          |
|     | Transportation of<br>various substances                                       | UDENTSEMINAR)     |                           |          |
|     | across cell   | ,                 |                           |          |
|     | membrane.   |                   |                           |          |
|     |   |                   |                           |          |
|     |   |                   |                           |          |
| 15. | b) Resting membrane   | Didactic          | To cover rmp, ap          |          |
|     | potential and action potential.   | PBL               |                           | 2 hours  |
|     | potential.  | PDL               |                           | 2 110013 |
|     |   | ОНР               |                           |          |
|     |   |                   |                           |          |
|     |   |                   |                           |          |
|     |   |                   |                           |          |
|     |   |                   |                           |          |
| 16. |   | Didactic          | To cover respiratory      |          |
|     | c) Physiology of respiratory  | PBL               | system, applied           |          |
|     | system:   | FDL               | physiology, cinical       |          |
|     | functional anatomy of   | ОНР               | knowledge of system for   | 6 hours  |
|     | respiratory system.   |                   | examination of patient    |          |
|     | Definition of ventilation,  | POSTER            |                           |          |
|     | mechanism of respiration,   | PRESENTATION      |                           |          |
|     | exchange and transport of   | COMPILATION(ST    |                           |          |
|     | gases, neural and chemical  | 20 12.111011(31   |                           |          |

|     | control of respiration   | LIDENTSENAINIAD\  |  |         |
|-----|--|---|--|---------|
|     | control of respiration, artificial respiration, asphyxia, hypoxia.   | ROLE MODEL  |  |         |
|     | Introduction to Pulmonary Function Tests.  | PPT   |  |         |
| 17. | d) Physiology of Nervous System:  General introduction to nervous system, neurons, mechanism of propagation of nerve impulse, physiology of CNS, PNS, ANS;  physiology of sensory and motor nervous system,  Functions of different parts of brain and physiology of special senses, intelligence, memory, learning and motivation.  Physiology of sleep and dreams, EEG.  Physiology of speech and articulation.  Physiology of temperature regulation. | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION(ST  UDENTSEMINAR)  ROLE MODEL | To cover physiology of nervous system and its applied aspect | 9 hours |
| 18. | e)GIT  Functional anatomy of gastro-intestinal tract, mechanism of secretion and composition of different digestive juices.  Functions of salivary glands, stomach, liver, pancreas, small intestine and large intestine in the process of digestion and absorption. Movements of the gut (deglutition, peristalsis, defecation) and their control. Enteric nervous system.  | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION(ST  UDENTSEMINAR)             | To cover digestive system and its applied aspect             | 5 hours |

| 19.   Didactic   f) Acid-base balance, water  |         |
|---|---------|
|   |         |
| and electrolyte balance. PBL To cover clinical  |         |
| Study of basic components of food.  OHP importance of different electrolytes, vitamins in body to know the leavest of the components. |         |
| Digostion and metabolism posters  | 7 hours |
| of proteins, fats and carbohydrates.  POSTER metabolism  PRESENTATION   | ,a.s    |
| Vitamins & Minerals- sources, daily requirement, functions, manifestations of   |         |
| hypo and hypervitaminosis GROUP DISCUSSION  |         |
| AYURVEDIC PART-   |         |
| 20. Didactic To cover the basic   |         |
| 1. <b>Dhatu:</b> theories for dhatu   |         |
| Etymology, derivation, PBL formation  | 5 hours |
| definition, general   |         |
| introduction of term Dhatu, OHP different theories related to   |         |
| Dhatuposhana POSTER   |         |
| (Dhatuposhana Nyaya) PRESENTATION   |         |
|   |         |
| COMPILATION(ST  |         |
| UDENTSEMINAR  |         |
|   |         |
| 21. 2. Rasa Dhatu: Didactic To cover ras dhatu and  |         |
| Etymology, derivation, location, properties, functions and Praman PBL its clinical assessment   | 5 hours |
| of Rasa-dhatu. Physiology of  |         |
| Rasavaha Srotas, Formation of Rasa  OHP  Dhatu from Aahara Rasa,  |         |
| circulation of Rasa (Rasa-  |         |
| Samvahana), role of Vyana Vayu and Samana Vayu in Rasa PRESENTATION   |         |
| Samvahana. Description of   |         |
| functioning of Hridaya. Ashtavidha COMPILATION(ST   |         |
| Sara (8 types of Sara), UDENTSEMINAR characteristics of Tvakasara   |         |
| Purusha, conceptual study of  |         |
| mutual interdependence  |         |
| (Aashraya-Aashrayi Bhaava) and its relation to Rasa and Kapha.  |         |
| Manifestations of kshaya and  |         |
| Vriddhi of Rasa.  |         |
| 22. 3. Rakta Dhatu: Didactic  |         |
| Etymology, derivation, synonyms, location, properties, functions and PBL To cover rakta dhatu and its clinical                        | 8 hours |
| Praman of Rakta Dhatu.  | o nours |

|     | Panchabhautikatva of Rakta Dhatu,<br>physiology of Raktavaha Srotas, | ОНР                    | assessment   |        |
|-----|--|------------------------|--|--------|
|     | formation of Raktadhatu, Ranjana                                     | POSTER                 |  |        |
|     | of Rasa by Ranjaka Pitta, features<br>of Shuddha Rakta, specific     | PRESENTATION           |  |        |
|     | functions of Rakta, characteristics                                  | COMPILATION(ST         |  |        |
|     | of Raktasara Purusha,<br>manifestations of Kshaya and                | UDENTSEMINAR           |  |        |
|     | Vriddhi of Raktadhatu, mutual  |                        |  |        |
|     | interdependence of Rakta and<br>Pitta.                               |                        |  |        |
| 23. | 4. Mamsa Dhatu :   | Didactic               |  |        |
|     | Etymology, derivation, synonyms, location, properties and functions  | PBL                    |  |        |
|     | of Mamsa Dhatu, physiology of  |                        | To cover mamsa dhatu                                   |        |
|     | Mamsavaha Srotasa, formation of<br>Mamsa Dhatu, characteristics of   | POSTER                 | and its clinical                                       | 1 hour |
|     | Mamsasara Purusha,   | PRESENTATION           | assessment   |        |
|     | manifestations of Kshaya and<br>Vriddhi of Mamsa Dhatu .Concept      | COMPILATION(ST         |  |        |
|     | of Peshi.  | UDENTSEMINAR           |  |        |
|     |  |                        |  |        |
|     |  |                        |  |        |
| 24. | <b>5. Meda Dhatu :</b> Etymology, derivation, location,              | Didactic               |  |        |
|     | properties, functions and Praman                                     | PBL                    | To cover meda dhatu and its clinical                   | 1 hour |
|     | of Meda Dhatu, physiology of<br>Medovaha Srotas, formation of        | POSTER                 |  |        |
|     | Medo Dhatu, characteristics of                                       | PRESENTATION           |  |        |
|     | Medasara Purusha and<br>manifestations of Kshaya and                 | 1 11202117111011       | assessment   |        |
|     | Vriddhi of Meda.   | COMPILATION(ST         |  |        |
|     |  | UDENTSEMINAR           |  |        |
|     |  |                        |  |        |
| 25. | 6. Asthi Dhatu:  | Didactic               |  |        |
|     | Etymology, derivation, synonyms,                                     | 001                    |  | 4 1    |
|     | location, properties, functions of Asthi Dhatu. Number of Asthi.     | PBL                    | To cover asthi dhatu and                               | 1 hour |
|     | Physiology of Asthivaha Srotas and formation of Asthi Dhatu,         | POSTER                 | its clinical assessment                                |        |
|     | characteristics of Asthisara   | PRESENTATION           |  |        |
|     | Purusha, mutual interdependence                                      | COMPILATION(ST         |  |        |
|     | of Vata and Asthi Dhatu,<br>manifestations of Kshaya and             | UDENTSEMINAR           |  |        |
|     | Vriddhi of Asthi Dhatu.  |                        |  |        |
| 26. | 7. Majja Dhatu: Etymology, derivation, types,                        | Didactic               |  |        |
|     | location, properties, functions and                                  | PBL                    | To cover majja dhatu<br>and its clinical<br>assessment | 1 hour |
|     | Praman of Majjaa Dhatu,<br>physiology of Majjavaha Srotas,           | DOSTED                 |  |        |
|     | formation of Majja Dhatu,  | POSTER<br>PRESENTATION |  |        |
|     | characteristics of Majja Sara<br>Purusha, relation of Kapha, Pitta,  | TRESENTATION           |  |        |
|     | Rakta and Majja, manifestations of                                   | COMPILATION(ST         |  |        |

|     | Kshaya and Vriddhi of Majja Dhatu.  | UDENTSEMINAR  |   |         |
|-----|---|---|---|---------|
| 27. | 8. Shukra Dhatu: Etymology, derivation, location, properties, functions and Praman of Shukra Dhatu, physiology of Shukraravaha Srotas and formation of Shukra Dhatu. Features of Shuddha Shukra, characteristics of Shukra-Sara Purusha, manifestations of Kshaya and Vriddhi of Shukra Dhatu.  | Didactic  PBL  POSTER  PRESENTATION  COMPILATION(ST  UDENTSEMINAR                         | To cover shukra dhatu<br>and its clinical<br>assessment   | 1 hour  |
| 28. | 9. Concept of Ashraya-Ashrayi bhava i.e. interrelationship among Dosha, Dhatu Mala and Srotas.  | Didactic<br>PBL   | To cover interrelationship of dosha-dhatu-mala-srotas   | 1 hour  |
| 29. | 10. Ojas:  Etymological derivation, definition, formation, location, properties, Praman, classification and functions of Ojas.  Description of Vyadhikshamatva.  Bala Vriddhikara Bhava. Classification of Bala. Etiological factors and manifestations of Ojavisramsa, Vyapat and Kshaya.      | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION(ST  UDENTSEMINAR  GROUP  DISCUSSION | To cover Immune system of body according to ayurveda and its clinical assessment and importance | 3 hours |
| 30. | 11. Upadhatu: General introduction, etymological derivation and definition of the term Upadhatu. Formation, nourishment, properties, location and functions of each Upadhatu. a) Stanya: Characteristic features and methods of assessing Shuddha and Dushita Stanya, manifestations of Vriddhi | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION(ST  UDENTSEMINAR                    | To cover sapta dhatu<br>To cover stanya-artava-<br>tvak and clinical<br>importance              | 7 hours |

|     | and Kshaya of Stanya. b) Artava: Characteristic features of Shuddha and Dushita Artava. Differences between Raja and Artava, physiology of Artavavaha Srotas. c) Tvak: classification, thickness of each layer and functions.   |  |  |         |
|-----|---|--|--|---------|
| 31. | Etymological derivation and definition of the term Mala. Aharamala: Enumeration and description of the process of formation of Aharamala.  a) Purisha: Etymological derivation, definition, formation, properties, quantity and functions of Purisha. Physiology of Purishavaha Srotas, manifestations of Vriddhi and Kshhaya of Purisha. b) Mutra: Etymological derivation, definition, formation, properties, quantity and functions of Mutra. Physiology of Mutravaha Srotas, physiology of urine formation in Ayurveda, manifestations of Vriddhi and Kshhaya of Mutra. c) Sveda: Etymological derivation, definition, formation and functions of Sveda. Manifestations of Vriddhi and Kshaya of Sveda. Discription of Svedvaha Strotas d) Dhatumala: Brief description of each type of Dhatumala | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION(ST  UDENTSEMINAR | To cover purish-mutrasveda and its importance and dhatumala. | 3 hours |
| 32. | 13. Panchagyanendriya: Physiological description of Panchagyaanendriya and physiology of perception of  | Didactic<br>PBL  | To cover importance of panch gyan-karma indriya              |         |

|     | Shabda, Sparsha, Rupa,<br>Rasa and Gandha.<br>Physiological description of<br>Karmendriya.  | OHP POSTER PRESENTATION   |   | 6 hours |
|-----|---|---|---|---------|
|     |   | COMPILATION(ST<br>UDENTSEMINAR  |   |         |
|     |   |   |   |         |
| 33. | 14. Manas: Etymological derivation, definition, synonyms, location, properties, functions and objects of Manas. Physiology of Manovaha Srotas.                            | POSTER PRESENTATION  COMPILATION(ST UDENTSEMINAR  TUTORIALS           | To cover manas-<br>psychological aspect in<br>ayurveda      | 1 hour  |
| 34. | 15. Atma: Etymological derivation, definition, properties of Atma. Difference between Paramatma and Jivatma; Characteristic features of existence of Atma in living body. | POSTER PRESENTATION  COMPILATION(ST UDENTSEMINAR  TUTORIALS  Didactic | To cover importance, properties, of atma                    | 1 hour  |
| 35. | 16. Nidra: Nidrotpatti, types of Nidra, physiological and clinical significance of Nidra; Svapnotpatti and types of Svapna  | PBL OHP POSTER PRESENTATION COMPILATION(ST UDENTSEMINAR               | To cover ayurvedic concept of nidra and clinical importance | 3 hours |
|     | MODERN PHYSIOLOGY-PAPER II  |   | L   |         |
| 36. | 5. Haemopoetic system  - composition, functions of blood and blood cells, Haemopoiesis (stages and  | Didactic PBL OHP POSTER   | To cover the haemopoetic system                             | 9 hours |
|     | development of<br>RBCs, and WBCs and  | PRESENTATION  | and importance  |         |

|     | platelets), composition and functions of bone marrow, structure, types and functions of haemoglobin, mechanism of blood clotting, anticoagulants, physiological basis of blood groups, plasma proteins, introduction to anaemia and jaundice | COMPILATION(ST UDENTSEMINAR ROLE MODEL (PRACTICALS)  CASE PRESENTATION  SIS |   |         |
|-----|--|---|---|---------|
| 37. | classification of immunity: Innate, acquired and artificial. Different mechanisms involved in immunity: Humoral (B-cell mediated) and T-Cell mediated immunity. Hypersensitivity   | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION(ST  UDENTSEMINAR      | To cover immunological aspect of defence system in body | 6 hours |
| 38. | 7. Muscle physiology –  comparison of physiology of skeletal muscles, cardiac muscles and smooth muscles. Physiology of muscle contraction.  | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION(ST  UDENTSEMINAR      | To cover muscle physiology                              | 2 hours |
| 39. | 8. Physiology of cardiovascular system:  Functional anatomy of cardiovascular system. Cardiac cycle. Heart sounds.   | Didactic PBL OHP POSTER   | To cover circulatory system and clinical-applied aspect | 7 hours |

|     | Regulation of cardiac output and venous return. Physiological basis of ECG. Heartrate and its regulation. Arterial pulse. Systemic arterial blood pressure and its control. | PRESENTATION  COMPILATION(ST  UDENTSEMINAR  ROLE MODEL  (PRACTICALS)  PPT  SIS  Group discussion |   |         |
|-----|---|--|---|---------|
| 40. | 5. Adipose tissue,<br>lipoproteins like VLDL, LDL<br>and HDL triglycerides.   | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION(ST  UDENTSEMINAR                           | To cover lipids in our body and clinical importance | 2 hours |
| 41. | 6. Functions of skin, sweat glands and sebaceous glands.  | POSTER PRESENTATION  COMPILATION(ST UDENTSEMINAR   | To cover functions of skin-sweat-sebaceous glands   | 2 hours |
| 42. | 7. Physiology of male and female reproductive systems. Description of ovulation, spermatogenesis, oogenesis, menstrual cycle.   | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION(ST  UDENTSEMINAR                           | To cover reproductive system and applied aspect     | 3 hours |
| 43. | 8. Physiology of Excretion – functional anatomy of urinary tract, functions of  | Didactic<br>PBL  | To cover excretory                                  | 4 hours |

|     | kidney. Mechanism of formation of urine, control of micturition. Formation of faeces and mechanism of defecation.  | OHP  POSTER  PRESENTATION  COMPILATION(ST  UDENTSEMINAR  | system and applied aspect                                       |          |
|-----|--|--|---|----------|
| 44. | 9. Endocrine glands – General introduction to endocrine system, classification and characteristics of hormones, physiology of all endocrine glands, their functions and their effects.   | Didactic  PBL  OHP  POSTER  PRESENTATION  COMPILATION(ST  UDENTSEMINAR   | To cover endocrine system and hormones                          | 9 hours  |
|     | <u>PRACTICALS</u>  |  |   |          |
| 45. | Ayurvedic practical 1. Assessment of Prakriti 2. Assessment of Dosha (Features of Vriddhi- Kshaya 3. Assessment of Dhatu (Features of Vriddhi- Kshaya) 4. Assessment of Agni 5. Assessment of Koshtha 6. Assessment of Sara 7. Nadi pariksha | Didactic  PBL  POSTER  PRESENTATION  COMPILATION(ST  UDENTSEMINAR  ROLE MODEL  (PRACTICALS)  SIS  Group discussion | To cover clinical assessment of doshadhatu-sara-agni-koshta etc | 9 hours  |
| 46. | Modern physiology practical  2. Introduction to laboratory instruments- Simple & Compound Microscope, Scalp vein set, bulbs for blood collection,  | Didactic  PBL  ROLE MODEL (PRACTICALS)  SIS  | To cover the different parts of instruments used in practicals  | 34 hours |

|     | Sahli"s Haemometer, Haemocytometer, pipettes, Urinometer, Albuminometer, Stethoscope, B.P. Apparatus, Harpenden"s caliper, Clinical Hammer, Tuning Fork, Stop Watch, Thermometer, Centrifuge machine, ECG Machine | Group discussion           |                                      |          |
|-----|---|----------------------------|--------------------------------------|----------|
| 47. | 2. Collection of blood  | Didactic                   |                                      |          |
|     | sample – prick, vene-<br>puncture method, use of  | PBL                        | To a constant of                     | 6 hours  |
|     | anticoagulants  | ROLE MODEL                 | To cover methods of blood collection |          |
|     |   | (PRACTICALS)               |                                      |          |
|     |   | SIS                        |                                      |          |
|     |   | Group discussion           |                                      |          |
| 48. | 3. Preparation of blood   | Didactic                   |                                      |          |
|     | smear and staining  | PBL                        | To prepare blood film                |          |
|     |   | ROLE MODEL<br>(PRACTICALS) |                                      | 8 hours  |
|     |   | SIS                        |                                      |          |
|     |   | Group discussion           |                                      |          |
| 49. | 4. Estimation of Hemoglobin   | Didactic                   |                                      |          |
|     | 4. Estimation of Hemoglobin   | PBL                        |                                      | 6 hours  |
|     |   | ROLE MODEL<br>(PRACTICALS) | To estimate Hb                       |          |
|     |   | SIS                        |                                      |          |
|     |   | Group discussion           |                                      |          |
| 50. | F.M   | Didactic                   |                                      |          |
|     | 5. Microscopic examination of blood   | PBL                        |                                      |          |
|     | <ul><li>a. Total RBC count</li><li>b. Total WBC count</li><li>c. Differential leucocyte</li></ul>   | ROLE MODEL                 | To estimate RBC, WBC,                | 22 hours |

|     | count   | (PRACTICALS)               | different WBC, in                       | <del>                                     </del> |
|-----|---|----------------------------|---|--|
|     | Count   | (FNACTICALS)               | sample of blood                         |  |
|     |   | SIS                        | Sample of blood                         |  |
|     |   | Group discussion           |   |  |
| 51. | 6. Packed cell volume (PCV) demonstration                             | Didactic                   |   |  |
|     | demonstration   | PBL                        | To estimate PCV                         | 2 hours  |
|     |   | ROLE MODEL                 |   |  |
|     |   | (PRACTICALS)               |   |  |
|     |   | SIS                        |   |  |
|     |   | Group discussion           |   |  |
| 52. |   | Didactic                   |   |  |
|     | 7. ESR demonstration  | PBL                        |   |  |
|     |   | ROLE MODEL                 | To estimate ESR and clinical importance | 4 hours  |
|     |   | (PRACTICALS)               | - cimical importance                    |  |
|     |   | SIS                        |   |  |
|     |   | Group discussion           |   |  |
| 53. |   | Didactic                   |   |  |
|     | 8. Bleeding time, Clotting time                                       | PBL                        | To estimate BT, CT,                     | 12 hours   |
|     | 9. Blood grouping and Rh  | ROLE MODEL<br>(PRACTICALS) | Blood group and clinical importance     |  |
|     | typing  |                            |   |  |
|     |   | SIS                        |   |  |
|     |   | Group discussion           |   |  |
| 54. | 10 Francischi CC II   | Didactic                   |   |  |
|     | 10. Examination of Cardio-<br>Vascular system<br>a. Pulse examination | PBL                        | To examine cardio-                      |  |
|     | b. Arterial blood pressure  | ROLE MODEL                 | vascular system                         |  |
|     | measurement<br>c. Examination of heart                                | (PRACTICALS)               |   | 16 hours   |
|     | sounds  | SIS                        |   | 10 110013  |
|     | d. ECG demonstration  | Group discussion           |   |  |
|     |   | PPT                        |   |  |

| 55. | 11. Examination of Respiratory system a. Respiratory rate b. Breath sounds c. Spirometry  | Didactic  PBL  ROLE MODEL (PRACTICALS)  SIS  Group discussion | To examine respiratory system                          | 16 hours |
|-----|---|---|--|----------|
| 56. | 12. Examination of Nervous System- Sensory & Motor.   | Didactic  PBL  ROLE MODEL (PRACTICALS)  SIS  Group discussion | To examine nervous system  Nice to know                | 20 hours |
| 57. | 13. Urine examination – Physical examination, chemical examination. Test for normal constituents of urine. Detection of specific gravity and reaction of urine. | Didactic  PBL  ROLE MODEL (PRACTICALS)  SIS  Group discussion | To cover physical-<br>chemical examination of<br>urine | 22 hours |

## **REFERENCE BOOKS:-**

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|---|
| □ Kayachikitsa Parichaya - C. Dwarkanath                    |
| □ Prakrit Agni Vigyan - C. Dwarkanath                       |
| □ Sharir Kriya Vigyan - Shiv Charan Dhyani                  |
| □ Abhinava Sharir Kriya Vigyana - Acharya Priyavrata Sharma |
| □ Dosha Dhatu Mala Vigyana - Shankar Gangadhar Vaidya       |
| □ Prakrita Dosha Vigyana - Acharya Niranjana Dev            |
| □ Tridosha Vigyana - Shri Upendranath Das                   |
| □ Sharira Tatva Darshana - Hirlekar Shastri                 |
| □ Prakrita Agni Vigyana - Niranjana Dev                     |
| □ Deha Dhatvagni Vigyana - Vd. Pt. Haridatt Shastri         |

| □ Sharir Kriya Vigyana (Part 1-2) - Acharya Purnchandra Jain                    |
|---|
| □ Sharir Kriya Vigyana - Shri Moreshwar Dutt. Vd.                               |
| □ Sharira Kriya Vijnana (Part 1 and 2) – Nandini Dhargalkar                     |
| □ Dosha Dhatu Mala Vigyana - Basant Kumar Shrimal                               |
| □ Abhinava Sharir Kriya Vigyana - Dr. Shiv Kumar Gaur                           |
| □ Pragyogik Kriya Sharir - Acharya P.C. Jain                                    |
| □ Kaya Chikitsa Parichaya - Dr. C. Dwarkanath                                   |
| □ Concept of Agni - Vd. Bhagwan Das   |
| □ Purush Vichaya - Acharya V.J. Thakar  |
| □ Kriya Sharir - Prof. Yogesh Chandra Mishra                                    |
| □ Sharir Kriya Vigyana - Prof. Jayaram Yadav &Dr. Sunil Verma.                  |
| □ Basic Principles of Kriya-Sharir (A treatise on Ayurvedic Physiology ) by Dr. |
| Srikant Kumar Panda   |
| □ Sharir Kriya – Part I & Part II – Dr. Ranade, Dr. Deshpande & Dr. Chobhe      |
| □ Human Physiology in Ayurveda - Dr Kishor Patwardhan                           |
| □ Sharirkriya Vignyan Practical Hand Book- Dr.Ranade, Dr.Chobhe, Dr. Deshpande  |
| □ Sharir Kriya Part 1 – Dr.R.R.Deshapande, Dr.Wavhal                            |
| □ Sharir Kriya Part 2 – Dr. R.R.Deshapande, Dr.Wavhal                           |
| □ Ayurveda Kriya Sharira- Yogesh Chandra Mishra                                 |
| □ Textbook of Physiology - Gyton & Hall   |
| □ A Textbook of Human Physiology – A.K.Jain                                     |
| □ Essentials of Medical Physiology - Sembulingam, K.                            |
| □ Concise Medical Physiology - Chaudhari, Sujit K.                              |
| □ Principals of Anatomy & Physiology - Tortora & Grabowski                      |
| □ Textbook of Medical Physiology- Indu Khurana                                  |

## Note:

Theory 2 papers – 200 marks (100 each paper)

Theory hours: 200

Paper I- Sl No: 1-18 Paper II- Sl No: 19-43

Practicals – Sl No: 44 - 56

Practical Hour: 200 Practical – 100 Marks