**SARASWATHI INSTITUTE OF MEDICAL SCIENCES, HAPUR**
**TIME TABLE BATCH 2022**

RED: ANATOMY, BLACK: PHYSIOLOGY, BLUE: BIOCHEMISTRY, BROWN: COMMUNITY MEDICINE, GREEN: AETCOM,
VIOLET: Extracurricular activities/Sports VI in Pink - Vertical Integration HI in Orange - Horizontal Integration
Formative assessment & feedback ECE Foundation course

| Day | competency no. | 9 AM -10 AM | mode | competency no. | 10 AM -12 Noon | mode | competency no. | 12 Noon -1 PM | mode | 1 PM-2 PM | competency no. | 2 PM -4 PM | mode | competency no. | 4 PM-5 PM | mode | competency no. | 5 PM - 6 PM | mode |
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| Day-1 | | Dean Address MBBS Program | | FC 1.4 | Rules & regulations of the institute | | | | Lecture | | FC 1.5 orientation to institution, campus, administrative structure and departments | | | | | | | | |
| Day-2 | AN1.1 | Demonstrate normal anatomical position, various planes, relation, comparison, laterality & movement in our blood | Lecture | Module 1.5 | AETCOM: Cadaver as our first teacher: introduction to biologic tissues and cadavers | Small Group Discussion | PY1.2 | Describe and discuss the principles of homeostasis | Lecture | | FC4.12 | Understand the concept of group learning & group dynamics | Small Group Discussion | FC 4.14 | Understanding different methods of SDL (Small group discussion) | | | | |
| Day-3 | PY1.1PY 1.3, PY 1.4 | Describe the structure and functions of a mammalian cell Describe intercellular communication & Describe apoptosis – programmed cell death | Small group discussion | BI11.2/BI1.1 | Describe the preparation of buffers and estimation of pH./Describe commonly used laboratory apparatus and equipments, good safe laboratory practice and waste disposal. | DOAP Session/TUTORIAL | AN1.2, 2.3 | Describe composition of bone and bone marrow, Enumerate special features of a sesamoid bone | Lecture | | AN1.2, 2.3 | Describe composition of bone and bone marrow, Enumerate special features of a sesamoid bone | Small Group Teaching | BI1.1 | Describe the molecular and functional organization of a cell and its subcellular components. **HI Physiology** | SDL | | Extracurricular | |
| Day-4 | BI1.1 | Structure and transport across cell membrane | Lecture | AN2.4 | Describe various types of cartilage with its structure & distribution in body **VI Ortho** | Small Group Teaching | PY 1.5 | Describe and discuss transport mechanisms across cell membranes | Lecture | | PY5.12 | study of microscope/record the arterial pulse at rest | DO | C.M. 1.1 | Define & Describe the concept of Public Health | Lecture | | Sports | |

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| **Day-5** | PY 1.5 | Describe and discuss transport mechanisms across cell membranes - **VI Pathology** | Lecture | FC 1.1 | Role of doctor in society | Panel Discussion | AN2.4 | Describe various types of cartilage with its structure & distribution in body | Lecture |
| **Day-6** | AN2.5 | Describe various joints with subtypes and examples | Lecture | AN 2.4, 2.5 | Describe various types of cartilage with its structure & distribution in body, Describe various joints with subtypes and examples | Practical | Module 1.1 | AETCOM: What does it mean to be a doctor? - Exploratory session | Small Group discussion |
| **Day-7** | BI2.1 | Explain fundamental concepts of enzyme, isoenzyme, alloenzyme, coenzyme & co-factors. Enumerate the main classes of IUBMB nomenclature. | Small group discussion | FC 1.6 | Career Pathways | Panel discussion | AN2.5,2.6 | Describe various joints with subtypes and examples, Explain the concept of nerve supply of joints & Hilton's law | Lecture |
| **Day-8** | AN2.5,2.6 | Describe various joints with subtypes and examples, Explain the concept of nerve supply of joints & Hilton's law | Lecture | Module 1.5 | AETCOM: Cadaver as our first teacher: introduction to biologic tissues and cadavers | Small Group Discussion | PY 1.5 | Describe and discuss transport mechanisms across cell membranes | Lecture |

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| AN2.5 | Describe various joints with subtypes and examples **VI Ortho** | Small Group Teaching | FC 1.2 Roles of IMG (small group discussion) | | | | | |
| BI11.1 | Basic laboratory principles- good safe laboratory practice and waste disposal. | Demonstration | FC 1.7 MBBS curriculum (interactive lecture) | | | | | |
| AN2.6 | Explain the concept of nerve supply of joints & Hilton's law | Small Group Discussion | AN2.1, 2.2 | Describe parts, blood and nerve supply of a long bone, Enumerate laws of ossification | SDL | FC 5.4 | Computer skills - Basics | DOAP |
| PY5.12 | collection of blood sample /record the arterial pulse at rest | DO/AP | PY 1.5 | Describe and discuss transport mechanisms across cell membranes | Lecture | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |

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| **Day-9** | PY 1.6 | Describe the fluid compartments of the body, its ionic composition & measurements **HI Biochemistry** | Lecture | BI11.2/BI1.1 | Describe the preparation of buffers and estimation of pH./Describe commonly used laboratory apparatus and equipments, good safe laboratory practice and waste disposal. | DOAP Session/TUTORIAL | AN3.1 | Classify muscle tissue according to structure & action **HI Physiology** | Lecture | AN3.1 | Classify muscle tissue according to structure & action | Small Group Teaching | | Documents oertaining to MBBS | lecture | | Extracurricular | |
| **Day-10** | BI2.3 | Describe and explain the basic principles of enzyme activity. | Lecture | AN3.1, 2.1,2.2 | Classify muscle tissue according to structure & actionDescribe parts, blood and nerve supply of a long bone, Enumerate laws of ossification, | Small Group Discussion, Tutorials | PY 1.7 | Describe the concept of pH & Buffer systems in the body **HI Biochemistry** | Lecture | PY5.12 | collection of blood sample/record the arterial pulse at rest | DO/AP | C.M. 1.2 | Define health; describe the concept of holistic health including concept of spiritual health and the relativeness & determinants of health | Lecture | | Sports | |

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| **Day-11** | PY 1.9 | Demonstrate the ability to describe and discuss the methods used to demonstrate the functions of the cells and its products, its communications and their applications in Clinical care and research. | Lecture | Module 1.1 | AETCOM: Facilitated panel discussion by Doctors of various specialities | Panel Discussion | AN3.2, 3.3 | Enumerate parts of skeletal muscle and differentiate between tendons and aponeuroses with examples, Explain Shunt and spurt muscles | Lecture |
| **Day-12** | AN4.1, 4.2 | Describe different types of skin & dermatomes in body, Describe structure & function of skin with its appendages | Lecture | AN4.1, 4.2 | Describe different types of skin & dermatomes in body, Describe structure & function of skin with its appendages | Small Group Teaching | Module 1.1 | AETCOM: students write a report from reflections based on sessions 1 & 2 and on other reading materials, TV series, movies etc. that they have chosen from the lay press about doctors' experiences. | SDL |

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| AN3.2, 3.3 | Enumerate parts of skeletal muscle and differentiate between tendons and aponeuroses with examples, Explain Shunt and spurt muscles | Small Group Teaching | FC 1.10 | History of medicine | lecture |
| BI11.2/BI1.1 | Describe the preparation of buffers and estimation of pH./Describe commonly used laboratory apparatus and equipments, good safe laboratory practice and waste disposal. | DOAP Session/ TUTORIAL | FC 1.10 | Alternate health systems | group discussion |

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| **Day-13** | BI2.4 | Describe and discuss enzyme inhibitors as poisons and drugs and as therapeutic enzymes **VI Pathology, Medicine** | Lecture | | History of pandemics | lecture | AN4.3,4.4,4.5 | Describe superficial fascia along with fat distribution in body, Describe modifications of deep fascia with its functions, Explain principles of skin incisions | Lecture | | AN4.3, 4.4, 4.5 | Describe superficial fascia along with fat distribution in body, Describe modifications of deep fascia with its functions, Explain principles of skin incisions | DOAP Session | AN2.5 | Describe various joints with subtypes and examples | SDL | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |
| **Day-14** | AN4.2, 4.4, 4.5 | Explain principles of skin incisions Visit to hospital Surgery | | | | ECE (Anatomy) | PY 2.2 | Discuss the origin, forms, variations and functions of plasma protein **HI Biochemistry** | Lecture | | PY2.11/PY5.12 | Estimate Hb/record the arterial BP at rest | DO/DO | PY 2.1 | Describe the composition and functions of blood components | SDL | FC 5.4 | Computer skills - Basics | DOAP |
| **Day-15** | PY2.3 | Describe and discuss the synthesis of Haemoglobin and explain its breakdown. Describe variants of haemoglobin **HI Biochemistry** | Lecture | BI2.5 & BI2.6 | Reactions of Carbohydrates (Monosaccharides) /Describe and discuss the clinical utility of various serum enzymes as markers of pathological conditions. & Discuss use of enzymes in laboratory investigations (Enzyme-based assays) **VI Pathology Medicine** | Practical/GD | AN7.2, 7.3 | List components of nervous tissue and their functions, Describe parts of a neuron and classify them based on number of neurites, size & function | Lecture | | AN7.1 | Describe general plan of nervous system with components of central, peripheral & autonomic nervous systems | Small Group Teaching | | Classes of IUBMB nomenclature for enzymes, enzyme activity,enzyme inhibitions | SDL | | Extracurricular | |

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| **Day-16** | BI2.5 & BI2.6 | Describe and discuss the clinical utility of various serum enzymes as markers of pathological conditions. & Discuss use of enzymes in laboratory investigations (Enzyme-based assays) | Lecture | AN7.2, 7.3 | List components of nervous tissue and their functions, Describe parts of a neuron and classify them based on number of neurites, size & function | Lecture | PY2.4 | Describe RBC formation (erythropoiesis & its regulation) | Lecture |
| **Day-17** | PY2.4 | Describe RBC formation (erythropoiesis & its regulation) | L | PY2.11/PY5.12 | Estimate Hb/record the arterial BP at rest | DO/DO | AN7.4, 7.5, 7.6 | Describe structure of a typical spinal nerve, Describe principles of sensory and motor innervation of muscles, Describe concept of loss of innervation of a muscle with its applied anatomy | Lecture |

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| PY2.11/PY5.12 | Estimate Hb/record the arterial BP at rest | DO/DO | C.M. 1.2 | Discuss the determinants of health | Small group discussion | | Sports | |
| AN7.1,7.2, 7.3 | Describe general plan of nervous system with components of central, peripheral & autonomic nervous systems, List components of nervous tissue and their functions, Describe parts of a neuron and classify them based on number of neurites, size & function | Small Group Discussion | FC 1.3 Expectation of the students from nation, society, institution, peers, patients (group discussion) | | | | | |

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| **Day-18** | AN7.7, 7.8 | Describe various type of synapse, Describe differences between sympathetic and spinal ganglia | Lecture | AN7.4, 7.5, 7.6 | Describe structure of a typical spinal nerve, Describe principles of sensory and motor innervation of muscles, Describe concept of loss of innervation of a muscle with its applied anatomy | Small Group Teaching | Module 1.1 | AETCOM: students write a report from reflections based on sessions 1 & 2 and on other reading materials, TV series, movies etc. that they have chosen from the lay press about doctors' experiences. | SDL |
| **Day-19** | BI6.11, BI6.12 | Describe the functions of haem in the body and transport of O2 & CO2 by Hb. Describe the major types of haemoglobin and its derivatives found in the body. | Lecture | C.M. 1.4, C.M. 1.5 | Describe and discuss the natural history of disease/ Describe the application of interventions at various levels of prevention | | Lecture | Identify epithelium under the microscope & describe the various types that correlate to its function, Describe the ultrastructure of epithelium | Lecture |

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| BI2.5 & BI2.6 | Reactions of Carbohydrates (Monosaccharides)/Describe and discuss the clinical utility of various serum enzymes as markers of pathological conditions. & Discuss use of enzymes in laboratory investigations (Enzyme-based assays) | Practical /GD | FC 1.3 Expectation of the students from nation, society, institution, peers, patients and vice versa (group discussion) | | | | | |
| AN7.7, 7.8 | Describe various type of synapse, Describe differences between sympathetic and spinal ganglia | Small Group Discussion | AN65.1, 65.2 | Identify epithelium under the microscope & describe the various types that correlate to its function, Describe the ultrastructure of epithelium | SDL | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |

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| **Day-20** | AN9.1, 9.2, 9.3 | Describe attachment, nerve supply & action of pectoralis major and pectoralis minor, Breast: Describe the location, extent, deep relations, structure, age changes, blood supply, lymphatic drainage, microanatomy and applied anatomy of breast, Describe development of breast | Lecutre | AN8.1, 8.2, 8.3 | Identify the given bone, its side, important features & keep it in anatomical position, Identify & describe joints formed by the given bone, Enumerate peculiarities of clavicle | DOAP Session | PY 2.5 | Describe different types of anaemias **VI Pathology** | Small Group discussion |
| **Day-21** | PY 2.5 | Describe the different types of Jaundice **VI Pathology** **HI Biochemistry** | Small group discussion | BI2.7 | Reactions of Carbohydrates (Di, Polysaccharides)/Interpret laboratory results of enzyme activities & describe the clinical utility of various enzymes as markers of pathological conditions **VI Pathology** **Medicine** | Practical | AN10.4, 10.7 | Describe the anatomical groups of axillary lymph nodes and specify their areas of drainage, Explain anatomical basis of enlarged axillary lymph nodes | Lecture |

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| PY2.11/PY5.12 | Estimate Hb/record the arterial BP at rest | AP/AP | PY2.3, 2.4 | Describe the functions of RBC & Hb | Small group discussion | FC 5.4 | Computer skills - Basics | DOAP |
| AN9.1, 9.2, 9.3 | Describe attachment, nerve supply & action of pectoralis major and pectoralis minor, Breast: Describe the location, extent, deep relations, structure, age changes, blood supply, lymphatic drainage, microanatomy and applied anatomy of breast, Describe development of breast | Practical, Small Group Discussion | FC 1.8 understand the role of physician in various health care delivery system (group discussion) | | | | | |

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| **Day-22** | BI6.11 | Describe the processes involved in heam metabolism and describe porphyrin metabolism. | Lecture | AN8.1, 8.2, 8.4 | Identify the given bone, its side, important features & keep it in anatomical, Identify & describe joints formed by the given bone, Demonstrate important muscle attachment on the given bone | DOAP Session | PY 2.6 | Describe WBC formation (granulopoiesis) and its regulation | Lecture | PY2.11/PY5.12 | Estimate Hb/record the arterial BP at rest | AP/AP | C.M. 1.3 | Describe the characteristics of agent, host and environmental factors in health and disease and the multifactorial etiology of disease | Lecture | | Extracurricular | |
| **Day-23** | PY2.7 | Describe the formation of platelets, functions and variations. | Lecture | Module 1.1 | AETCOM: Introductory visit to the hospital | | AN10.1, 10.2 | Identify & describe boundaries and contents of axilla, Identify, describe and demonstrate the origin, extent, course, parts, relations and branches of axillary artery & tributaries of vein | Lecutre | AN10.4, 10.7 | Describe the anatomical groups of axillary lymph nodes and specify their areas of drainage, Explain anatomical basis of enlarged axillary lymph nodes | Practical, Small Group Discussion | FC 1.9 principles of family practices (interactive lecture) | | | | |

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| **Day-24** | AN10.3,10.5,10.6 | Describe, identify and demonstrate formation, branches, relations, area of supply of branches, course and relations of terminal branches of brachial plexus, Explain variations in formation of brachial plexus, Explain the anatomical basis of clinical features of Erb's palsy and Klumpke's paralysi | Lecture | AN10.1, 10.2 | Identify & describe boundaries and contents of axilla, Identify, describe and demonstrate the origin, extent, course, parts, relations and branches of axillary artery & tributaries of vein | Practical, Small Group Discussion | Module 1.1 | AETCOM: Students' Reflection | Group discussion | | BI2.7 | Interpret laboratory results of enzyme activities & describe the clinical utility of various enzymes as markers of pathological conditions<br>Visit to hospital Central Lab | | | | ECE (Biochemistry) | | Sports | |
| | **competency no.** | **9 AM -10 AM** | **mode** | **competency no.** | **10 AM -12 Noon** | **mode** | **competency no.** | **12 Noon -1 PM** | **mode** | **1 PM-2 PM** | **competency no.** | **2 PM -4 PM** | **mode** | **competency no.** | **4 PM-5 PM** | **mode** | **competency no.** | **5 PM-6 PM** | **mode** |
| **Day-25** | FC 2.1, 2.2 BLS training/ First aid (Batch wise) (video based and hands on mannequin) | | | | | | | | | | BLS training/ First aid | | | | | | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |
| **Day-26** | AN10.10,10.12 | Describe and identify the deltoid and rotator cuff muscles, Describe and demonstrate shoulder joint for– type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements, muscles involved, blood supply, nerve supply and applied anatomy<br>**VI Ortho** | Lecture | AN10.8, 10.9,10.11 | Describe, identify and demonstrate the position, attachment, nerve supply and actions of trapezius and latissimus dorsi, Describe the arterial anastomosis around the scapula and mention the boundaries of triangle of auscultation , Describe & demonstrate attachment of serratus anterior with its action | Practical, Small Group Discussion | PY2.9 | Describe different blood groups and discuss the clinical importance of blood grouping<br>**VI Pathology** | Lecture | | PY2.11/PY5.12 | DLC/record the arterial BP at rest | AP/AP | PY2.7 | functions & variation of platelets | Small Group Discussion | FC 5.4 | Computer skills - Basics | DOAP |
| **Day-27** | FC 2.1, 2.2 BLS training/ First aid (Batch wise) (video based and hands on mannequin) | | | | | | | | | | BLS training/ First aid | | | | | | | Extra Curricular activities | |

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| **Day-28** | BI6.12 | Describe the major types of haemoglobin and its derivatives found in the body and their physiological/ pathological relevance. **VI Pathology, Medicine HI Physiology** | Small Group learning | AN8.1, 8.2, 8.4 | Identify the given bone, its side, important features & keep it in anatomical, Identify & describe joints formed by the given bone, Demonstrate important muscle attachment on the given bone | DOAP Session | PY2.8 | Describe the physiological basis of hemostasis and anticoagulants. | lecture |
| **Day-29** | PY2.9 | Blood banking and transfusion (visit to blood bank) **VI Pathology** | | | | ECE (Physiology) | AN10.13 | Explain anatomical basis of Injury to axillary nerve during intramuscular injections | lecture |

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| PY2.11/PY5.12 | DLC/record the arterial BP at rest | DO/AP | C.M. 1.3 | Discuss the multifactorial etiology of disease | Small Group Discussion | | Sports | |
| AN10.10 ,10.12 | Describe and identify the deltoid and rotator cuff muscles, Describe and demonstrate shoulder joint for– type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements, muscles involved, blood supply, nerve supply and applied anatomy | Practical, Small Group Discussion | | FC 2.1, 2.2 BLS/ First Aid Assessment + Feedback (OSCE) | | | | |

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| **Day-30** | AN11.1 | Describe and demonstrate muscle groups of upper arm with emphasis on biceps and triceps brachii | Lecture | AN8.1, 8.2, 8.4 | Identify the given bone, its side, important features & keep it in anatomical, Identify & describe joints formed by the given bone, Demonstrate important muscle attachment on the given bone | DOAP Session | Module 1.2 | AETCOM: What does it mean to be a patient? - Exploratory session | Group discussion |
| **Day-31** | BI5.2 | Describe and discuss functions of proteins and structure-function relationships in relevant areas eg, hemoglobin and selected hemoglobinopathies **VI Patho Medicine** **HI Physiology** | Lecture | FC 2.3 | Biosafety and universal precautions | Interactive lecture | AN11.2, 11.4 | Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels in arm | Lecture |

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| BI6.11 | Identification of Unknown Carbohydrates/ Discuss the heam synthesis and porphyrias **VI patho medicine** **HI Physiology** | Practical /tutorial | | FC 2.1, 2.2 BLS/ First Aid Assessment + Feedback (OSCE) | | | | | |
| AN11.1 | Describe and demonstrate muscle groups of upper arm with emphasis on biceps and triceps brachii | Practical, Small Group Discussion | AN10.4, 10.7 | Describe the anatomical groups of axillary lymph nodes and specify their areas of drainage, Explain anatomical basis of enlarged axillary lymph nodes **VI Surgery** | SDL | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |

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| **Day-32** | BI10.5 | Describe antigens and concepts involved in vaccine development. | Lecture | AN8.1, 8.2, 8.4 | Identify the given bone, its side, important features & keep it in anatomical, Identify & describe joints formed by the given bone, Demonstrate important muscle attachment on the given bone | DOAP Session | PY2.8 | Describe the physiological basis of anticoagulants. **VI Pathology** | lecture |
| **Day-33** | PY2.8 | Describe bleeding & clotting disorders (Hemophilia, purpura) **VI Pathology** | Small Group discussion | BI6.11 | Identification of Unknown Carbohydrates/ Discuss the heam synthesis and porphyrias **VI Patho Medicine HI Physiology** | Practical/tutorial | AN11.3, 11.5,11.6 | Describe the anatomical basis of Venepuncture of cubital veins ,Identify & describe boundaries and contents of cubital fossa ,Describe the anastomosis around the elbow joint | Lecture |

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| PY2.11/PY5.12 | DLC/record the effect of exercise on arterial BP & pulse | AP/DO | C.M. 1.4 | Discuss the natural history of disease | Small Group Discussion | FC5.4 | Computer skills - Basics | |
| AN11.2, 11.4 | Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels in arm | Practical, Small Group Discussion | | cellular and humoral components of the immune system | SDL | | Extra Curricular activities | |

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| **Day-34** | PY2.10 | Define and classify different types of immunity. | Lecture | Module 1.2 | AETCOM:Hospital Visit | Interaction with Patients | A N12.1,12.2 | Describe and demonstrate important muscle groups of ventral forearm with attachments, nerve supply and actions | Lecture |
| **Day-35** | AN12.3,12.4 | Identify & describe flexor retinaculum with its attachments,Explain anatomical basis of carpal tunnel syndrome | Lecture | AN12.1, 12.2 | Describe and demonstrate important muscle groups of ventral forearm with attachments, nerve supply and actions, Identify & describe origin, course, relations, branches (or tributaries),termination of important nerves and vessels of forearm | Practical, Small Group Discussion | Module 1.2 | AETCOM: What does it mean to be a patient? - Exploratory session | Group discussion |

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| AN10.4, 10.6, 10.7, 11.3 | Describe the anatomical groups of axillary lymph nodes and specify their, Explain the anatomical basis of clinical features of Erb's palsy and Klumpke's paralysis, Explain anatomical basis of enlarged axillary lymph nodes, Describe the anatomical basis of Venepuncture of cubital veins **VI Surgery** | Lecture | FC 2.4 handling and safe disposal of biohazards (Video based) |
| BI6.11 | Identification of Unknown Carbohydrates/ Discuss the processes involved in heam degredation and Jaundice. | Practical /tutorial | FC 2.5 Proper hand washing and use of PPE (hands on training) |

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| **Day-36** | BI10.3 | Describe the cellular and humoral components of the immune system & describe the types and structure of antibody. | Lecture | FC 3.1 , 3.2 | National Health policies and national health scenarios | Lecture | AN12.5, 12.6 | Identify & describe small muscles of hand. Also describe movements of thumb and muscles involved | Lecture | L U N C H | AN12.3, 12.4 | Identify & describe flexor retinaculum with its attachments,Explain anatomical basis of carpal tunnel syndrome | Practical, Small Group Discussion | AN10.10 ,10.12 | Describe and identify the deltoid and rotator cuff muscles, Describe and demonstrate shoulder joint for– type, articular surfaces, capsule, synovial membrane, ligaments, relations | SDL | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |
| **Day-37** | AN12.7,12.8 | Identify & describe course and branches of important blood vessels and nerves in hand,Describe anatomical basis of Claw hand | Lecture | AN8.5, 12.5,12.6 | Identify and name various bones in articulated hand,Describe scaphoid fracture and explain the anatomical basis of avascular necrosis, Specify the parts ofmetacarpals and phalanges and enumerate the peculiarities of pisiform, dentify & describe small muscles of hand. Also describe movements of thumb and muscles involved | Practical, Small Group Teaching | PY2.10 | Describe the development of immunity and its regulation | Lecture | | PY2.11/PY5.12 | DLC/record the effect of exercise on arterial BP & pulse | AP/AP | PY 3.1 | Describe the structure and functions of a neuron **HI Anatomy** | SDL | FC 5.4 | Computer skills - Basics | DOAP |

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| **Day-38** | PY2.10 | Describe the development of immunity and its regulation | Lecture | BI6.11 | Identification of Unknown Carbohydrates/ Discuss the processes involved in heam degredation and Jaundice. | Practical/tutorial | AN12.9, 12.10 | Identify & describe fibrous flexor sheaths, ulnar bursa, radial bursa and digital synovial sheaths, Explain infection of fascial spaces of palm | Lecture |
| **Day-39** | BI10.3 | Describe the cellular and humoral components of the immune system & describe the types and structure of antibody. | Lecture | AN 8.4, 8.6, 10.12, 11.4 | Demonstrate important muscle attachment on the given bone, Describe scaphoid fracture and explain the anatomical basis of avascular necrosis, Describe and demonstrate shoulder joint for– type, articular surfaces,capsule, synovial membrane, ligaments, relations, movements, musclesinvolved, blood supply, nerve supply and applied anatomy, Describe the anatomical basis of Saturday night paralysis | Lecture | PY 3.1 | Discuss neuroglia; Nerve Growth Factor & other growth factors/cytokines **HI Anatomy** | Lecture |

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| AN12.7, 12.8 | Identify & describe course and branches of important blood vessels and nerves in hand,Describe anatomical basis of Claw hand | Practical, Small Group Discussion, DOAP Session | FC 2.8 | Immunization | Lecture | | Extra Curricular activities | |
| PY2.11/PY5.12 | DLC/record the effect of exercise on arterial BP & pulse | AP/AP | C.M. 1.5 | Demonstrate the intervention at various levels of prevention | DOAP | | sports | |

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| **Day-40** | PY 1.8 | Describe and discuss the molecular basis of resting membrane potential | Lecture | PY2.11/PY5.12 | DLC/record the effect of posturee on arterial BP & pulse | AP/DO | AN12.11,12.12,12.13 | Identify, describe and demonstrate important muscle groups of dorsal forearm with attachments, nerve supply and actions, Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of forearm, Describe the anatomical basis of Wrist drop | Lecture |
| **Day-41** | AN12.14,12.15 | Identify & describe compartments deep to extensor retinaculum, Identify & describe extensor expansion formation | Lecture | AN12.14,12.15 | Identify & describe compartments deep to extensor retinaculum, Identify & describe extensor expansion formation | Practical, Small Group Discussion, DOAP Session | Module 1.2 | AETCOM: students write a report from reflections based on sessions 1 & 2 and on other readings, TV series movies etc. | SDL |

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| AN12.11,12.12,12.13 | Identify, describe and demonstrate important muscle groups of dorsal forearm with attachments, nerve supply and actions, Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of forearm, Describe the anatomical basis of Wrist drop | Practical, Small Group Discussion | FC 2.6 Needle stick injuries (Video based discussion) |
| BI5.2 | Colour reactions of Proteins and Amino acids/ Describe and discuss functions of proteins and structure-function relationships in relevant areas eg, hemoglobin and selected hemoglobinopathies | practical /tutorial | FC 3.3 Health care systems and principles of community health (lecture) |

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| **Day-42** | BI10.4 | Describe & discuss innate and adaptive immune responses, self/non-self recognition and the central role of T-helper cells in immune responses. | Lecture | FC 2.8 | Visit to Immunization centre | | AN13.1, 13.2 | Describe and explain Fascia of upper limb and compartments, veins of upper limb and its lymphatic drainage, Describe dermatomes of upper limb | Lecture |
| **Day-43** | AN13.3, AN 13.5 | Identify the bones and joints of upper limb seen in anteroposterior and lateral view radiographs of shoulder region, arm, elbow, forearm and hand Visit to hospital Radiodiagnosis | | | | ECE (Anatomy) | PY 1.8 | Describe and discuss the molecular basis of action potential in excitable tissue | Lecture |
| **Day-44** | PY 1.8 | Describe and discuss the molecular basis of action potential in excitable tissue | Lecture | BI5.2 | Colour reactions of Proteins and Amino acids/ Describe and discuss functions of proteins and structure-function relationships in relevant areas eg, hemoglobin and selected hemoglobinopathies | practical/tutorial | AN13.4, 13.5 | Describe Sternoclavicular joint, Acromioclavicular joint, Carpometacarpal joints & Metacarpophalangeal joint | Lecture |

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| AN13.4, | Describe Sternoclavicular joint, Acromioclavicular joint, Carpometacarpal joints & Metacarpophalangeal joint | Practical | A N12.1,12 .2 | Describe and demonstrate important muscle groups of ventral forearm with attachments, nerve supply and actions | SDL | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |
| PY2.11/P Y5.12 | DLC/record the effect of posturee on arterial BP & pulse | AP/DO | PY 3.2 | Describe the types, functions & properties of nerve fibers | SDL | FC 5.4 | Computer skills - Basics | DOAP |
| AN13.6, 13.7 | Identify & demonstrate important bony landmarks of upper limb:Jugular notch, sternal angle, acromial angle, spine of the scapula, vertebral level of the medial end, Inferior angle of the scapula, Identify & demonstrate surface projection of: Cephalic and basilic vein, Palpation of Brachial artery, Radial artery, Testing of muscles: Trapezius, pectoralis major, serratus | DOAP | | cellular and humoral components of the immune system | SDL | | Extra Curricular activities | |

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| **Day-45** | BI10.5 | Describe antigens and concepts involved in vaccine development. | Lecture | AN13.6, 13.7 | Identify & demonstrate important bony landmarks of upper limb:Jugular notch, sternal angle, acromial angle, spine of the scapula, vertebral level of the medial end, Inferior angle of the scapula, Identify & demonstrate surface projection of: Cephalic and basilic vein, Palpation of Brachial artery, Radial artery, Testing of muscles: Trapezius, pectoralis major, serratus anterior,latissimus dorsi, deltoid, biceps brachii | Lecture | PY3.3 | Describe the degeneration and regeneration in peripheral nerves **VI Medicine (nesting)** | Lecture |
| **Day-46** | PY 3.4 | Describe the structure of neuro-muscular junction and transmission of impulses **VI Anaesthesia** | Lecture | Module 1.2 | AETCOM: students write a report from reflections based on sessions 1 & 2 and on other readings, TV series movies etc. | SDL followed by discussion of their reflections | AN13.8 | Describe development of upper limb | Lecture |
| **Day-47** | AN5.2, 5.5 | Differentiate between pulmonary and systemic circulation, Describe portal system giving examples | Lecture | AN5.2, 5.5 | Differentiate between pulmonary and systemic circulation, Describe portal system giving examples | Small Group Teaching | Module 1.2 | Closure Session | Summative Assessment (SAQs |

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| PY2.11/PY5.12 | DLC/record the effect of posturee on arterial BP & pulse | AP/AP | C.M. 1.6 | Describe the concepts, the principles of Health promotion and Education, IEC and Behavioral change communication (BCC) | Lecture | | sports | |
| FC 2.9 | Documentation pertaining to patient care | | | FC 2.7 Biomedical Waste management (Interactive lecture) | | | | |
| BI6.12 | Describe the major types of haemoglobin and its derivatives found in the body and their physiological/ pathological relevance. Classroom | | | ECE (Biochemistry) | FC 4.1 | Professionalism & ethics Concept | interactive lecture | |

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| **Day-48** | AN5.3, 5.4,5.6 | List general differences between arteries & veins, Explain functional difference between elastic, muscular arteries and arterioles, Describe the concept of anastomoses and collateral circulation with significance of end-arteries | Lecture | AN5.3, 5.4,5.6, 5.7 | List general differences between arteries & veins, Explain functional difference between elastic, muscular arteries and arterioles,, Explain function of meta-arterioles, precapillary sphincters, arterio-venous anastomoses | Small Group Teaching | PY3.5 | Discuss the action of neuro-muscular blocking agents **VI Pharmacology (Sharing)** | Lecture | | PY2.11/PY5.12 | DLC/record the effect of posturee on arterial BP & pulse | AP/AP | PY3.7 | Describe the different types of muscle fibres and their structure **HI Anatomy** | Small Group Discussion | FC 5.5 | Computer skills - Assessing online content | DOAP |
| **Day-49** | PY3.6 | Describe the pathophysiology of Myasthenia gravis **VI Anaesthesia (nesting)** | Small Group discussion | BI3.1 | Precipitation reactions of Proteins/Describe and discuss principle and uses of Chromatography | Demonstartion | AN5.1, 5.7, 5.8 | Differentiate between blood vascular and lymphatic system, Explain function of meta-arterioles, precapillary sphincters, arterio-venous anastomoses, Define thrombosis, infarction & aneurysm | Lecture | | AN5.6, 5.8 | Describe the concept of anastomoses and collateral circulation with significance of end-arteries, Define thrombosis, infarction & aneurysm | Lecture | | FC 2.7 Biomedical Waste management (visit to hospital) | | | | |
| | **competency no.** | **9 AM -10 AM** | **mode** | **competency no.** | **10 AM -12 Noon** | **mode** | **competency no.** | **12 Noon -1 PM** | **mode** | **1 PM-2 PM** | **competency no.** | **2 PM -4 PM** | **mode** | **competency no.** | **4 PM-5 PM** | **mode** | **competency no.** | **5 PM-6 PM** | **mode** |

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| **Day-50** | BI3.1 | Discuss and differentiate monosaccharides, di-saccharides and polysaccharides giving examples of main carbohydrates as energy fuel, structural element and storage in the human body. | Lecture | AN6.1 | List the components and functions of the lymphatic system | Small Group Teaching | PY 3.7, PY3.8 | Describe structure, action potential and its properties in different muscle types (skeletal & smooth) | Lecture | | PY3.14 | Arneth count/ Perform Ergography | DO/DO | C.M. 1.6 | Discuss the concepts, the principles of Health promotion and Education, IEC and Behavioral change communication (BCC) | Small Group Discussion | | Extracurricular activities | |
| **Day-51** | AN6.2, 6.3 | Describe structure of lymph capillaries & mechanism of lymph circulation , Explain the concept of lymphoedema and spread of tumors via lymphatics and venous system **VI Surgery** | Lecture | AN21.1, 21.2, 21.3 | Identify and describe the salient features of sternum, typical rib, Ist rib and typical thoracic vertebra, Identify & describe the features of 2nd, 11th and 12th ribs, 1st, 11th and 12th thoracic vertebrae, Describe & demonstrate the boundaries of thoracic inlet, cavity and outlet, | DOAP Session | Module 1.3 | AETCOM: The doctor-patient relationship: fundamentals | Large group discussion | | BI10.4 | Tests for Proteins (Albumin, Globulin & Casien)/Describe & discuss innate and adaptive immune responses, self/non-self recognition and the central role of T-helper cells in immune responses. **VI Pathology medicine HI Physiology** | Practical /GD | FC 4.1 Consequences of unprofessional behaviour : Case based learning | | | | | |

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| **Day-52** | BI3.1 | Discuss the GAGs and proteoglycans, glycoproteins. | Lecture | | Anatomy FA & feedback | | AN21.3 | Describe & demonstrate the boundaries of thoracic inlet, cavity and outlet, | Lecture |
| **Day-53** | AN21.4 | Describe & demonstrate extent, attachments, direction of fibres, nerve supply and actions of intercostal muscles | Lecture | AN21.5, 21.6,21.7 | Describe & demonstrate origin, course, relations and branches of a typical intercostal nerve, Mention origin, course and branches/ tributaries of: 1) anterior & posterior intercostal vessels 2) internal thoracic vessels, Mention the origin, course, relations and branches of 1) atypical intercostal nerve 2) superior intercostal artery, subcostal artery | Practical, Small Group Discussion` | PY3.9 | Describe the molecular basis of muscle contraction in skeletal and in smooth muscles | Lecture |

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| AN21.4 | Describe & demonstrate extent, attachments, direction of fibres, nerve supply and actions of intercostal muscles | Practical | AN 13.5 | Identify the bones and joints of upper limb seen in anteroposterior and lateral view radiographs of shoulder region, arm, elbow, forearm and hand | SDL | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |
| PY3.14 | Arneth count/Perform Ergography | AP/AP | PY5.1 | Describe the functional anatomy of heart including chambers,sounds; | SDL | FC 5.5 | Computer skills - Assessing online content | DOAP |

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| **Day-54** | PY3.10, PY3.11 | Describe the mode of muscle contraction (isometric and isotonic) & Explain energy source and muscle metabolism | Lecture | FC 3.3, 3.5, 3.6 | Understand health care systems | Group discussion | AN21.5, 21.6,21.7 | Describe & demonstrate origin, course, relations and branches of a typical intercostal nerve, Mention origin, course and branches/ tributaries of: 1) anterior & posterior intercostal vessels 2) internal thoracic vessels, Mention the origin, course, relations and branches of 1) atypical intercostal nerve 2) superior intercostal artery, subcostal artery | Lecture |
| **Day-55** | BI6.6 | Describe the biochemical processes involved in generation of energy in cells. Enzymes of biological oxidation, | Lecture | AN21.9, 21.10 | Describe & demonstrate mechanics and types of respiration, Describe costochondral and interchondral joints | Practical, Small Group Discussion, DOAP Session | PY 3.12, PY3.17 | Explain the gradation of muscular activity & Describe Strength-duration curve | Lecture |

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| AN21.8 | Describe & demonstrate type, articular surfaces & movements of manubriosternal, costovertebral, costotransverse and xiphisternal joints | Small Group Discussion, DOAP Session | | Carbohydrate chemistry | SDL | | Extracurricular activities | |
| PY3.14 | Arneth count/Perform Ergography | AP/AP | C.M. 1.6 | Demonstrate in a simulated environment Behavioral change communication (BCC) | DOAP | | Sports | |

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| **Day-56** | PY3.13 | Describe muscular dystrophy: myopathies **VI Medicine (nesting)** **HI Anatomy** | Small Group Discussion | Module 1.3 | Illustrative Case Based discussion | Small Group discussion | AN21.8 | Describe & demonstrate type, articular surfaces & movements of manubriosternal, costovertebral, costotransverse and xiphisternal joints | Lecture |
| **Day-57** | AN21.9,21.10 | Describe & demonstrate mechanics and types of respiration, Describe costochondral and interchondral joints **HI Physiology** | Lecture | AN24.2, 24.3,24.5 | Identify side, external features and relations of structures which form root of lung & bronchial tree and their clinical correlat, Describe a bronchopulmonary segment, Mention the blood supply, lymphatic drainage and nerve supply of lungs | Practical | Module 1.3 | AETCOM: doctor-patient relationship that includes learning from resources, lay press, media and movies | SDL |

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| AN24.2, 24.3,24.5 | Identify side, external features and relations of structures which form root of lung & bronchial tree and their clinical correlat, Describe a bronchopulmonary segment, Mention the blood supply, lymphatic drainage and nerve supply of lungs | Practical | PY3.13 | Describe muscular dystrophy: myopathies | Small Group Discussion | | Personal grooming | Inetractive lecture |
| BI3.6 | Tests for Proteins (Gelatin, Peptone)/ discuss the glycolysis, TCA cycle and gluconeogenesis. | Practical /tutorial | FC 5.1 Attitude & communication (small group discussion) | | | | | |

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| **Day-58** | BI3.2, BI3.3 & BI3.4 | Describe the processes involved in digestion and assimilation of carbohydrates and storage. & Define and differentiate the pathways of carbohydrate metabolism - glycolysis. **VI medicne** | Lecture | | Physiology FA & feedback | | AN21.11 | Mention boundaries and contents of the superior, anterior, middle and posterior mediastinum | Lecture | AN24.4, 24.6 | Identify phrenic nerve & describe its formation & distribution, Describe the extent, length, relations, blood supply, lymphatic drainage and nerve supply of trachea | Practical, Small Group Discussio n` | AN24.1 | Mention the blood supply, lymphatic drainage and nerve supply of pleura, extent of pleura and describe the pleural recesses and their applied anatomy **VI Medicin e HI Physiolo gy** | SDL | FC 5.2, 5.3 | English/ Local Languag e (Hindi) | small group teaching |
| **Day-59** | AN21.4 | Describe & demonstrate extent, attachments, direction of fibres, nerve supply and actions of intercostal muscles | Lecture | AN21.5, 21.6,21. 7 | Describe & demonstrate origin, course, relations and branches of a typical intercostal nerve, Mention origin, course and branches/ tributaries of: 1) anterior & posterior intercostal vessels 2) internal thoracic vessels, Mention the origin, course, relations and branches of 1) atypical intercostal nerve 2) superior intercostal artery, subcostal artery | Practical, Small Group Discussion` | PY5.1 | Describe the Pacemaker tissue and conducting system. **HI Anatomy** | Lecture | PY3.14 | Arneth count/Perform Ergography | AP/AP | PY5.1 | Describe the function al anatomy of heart including chamber s,sounds ; | SDL | FC 5.5 | Compute r skills - Assessin g online content | DOAP |

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| **Day-60** | BI6.6 | Describe the biochemical processes involved in generation of energy in cells. Electron transport chain. | Lecture | AN21.11 | Mention boundaries and contents of the superior, anterior, middle and posterior mediastinum | Practical | PY5.2 | Describe the properties of cardiac muscle including its morphology, electrical, mechanical and metabolic functions | Lecture |
| **Day-61** | PY 5.3 | Discuss the events occurring during the cardiac cycle | Lecture | PY2.11/PY3.15 | BT/CT/Demonstrate effect of mild, moderate and severe exercise and record changes in cardiorespiratory parameters | DOAP/DO | AN24.4, 24.6 | Identify phrenic nerve & describe its formation & distribution, Describe the extent, length, relations, blood supply, lymphatic drainage and nerve supply of trachea | Lecture |
| **Day-62** | AN25.2 | Describe development of pleura, lung & heart | Lecture | AN22.2 | Describe & demonstrate external and internal features of each chamber of heart **HI Physiology** | Practical, Small Group Discussion` | Module 1.3 | AETCOM: doctor-patient relationship that includes learning from resources, lay press, media and movies | SDL |

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| PY2.11/PY3.15 | BT/CT/Demonstrate effect of mild, moderate and severe exercise and record changes in cardiorespiratory parameters | DOAP/DO | C.M. 1.8 | Discuss the impact of Demographic profile of India on health | Small Group Discussion | | Sports | |
| AN22.1 | Describe & demonstrate subdivisions, sinuses in pericardium, blood supply and nerve supply of pericardium | Practical, Small Group Discussion` | PY 5.3 | Discuss the events occurring during the cardiac cycle | Group Discussion | FC 3.1 | Medicolegal issues: Introduction | Interactive lecture |
| BI3.6 | Identification of Unknown Proteins/ discuss the HMP shunt, glycogen metabolism, Fructose and galactose metabolism. | Practcal/ tutorial | FC 3.1 Medicolegal issues: case scenarios | | | | | |

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| **Day-63** | BI3.6 | Describe and discuss the concept of TCA cycle as a amphibolic pathway and its regulation. | Lecture | | Biochemistry FA & feedback | | AN22.1 | Describe & demonstrate subdivisions, sinuses in pericardium, blood supply and nerve supply of pericardium | Lecture |
| **Day-64** | AN22.2 | Describe & demonstrate external and internal features of each chamber of heart | Lecture | AN 21.1, 21.2 | Identify and describe the salient features of sternum, typical rib, Ist rib and typical thoracic vertebra, Identify & describe the features of 2nd, 11th and 12th ribs, 1st, 11th and 12th thoracic vertebrae | DOAP Session | PY5.3 | Discuss the events occurring during the cardiac cycle | Lecture |

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| AN22.3, 22.4 | Describe & demonstrate origin, course and branches of coronary arteries , Describe anatomical basis of ischaemic heart disease **HI Physiology** | Practical, Small Group Discussion` | AN24.3 | Describe a broncho pulmonary segment | SDL | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |
| PY2.11/PY3.15 | Blood group /Demonstrate effect of mild, moderate and severe exercise and record changes in cardiorespiratory parameters | DOAP/AP | PY5.2 | Describe the properties of cardiac muscle including its morphology, electrical, mechanical and metabolic functions | Small Group Discussion | FC 5.5 | Computer skills - Assessing online content | DOAP |

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| **Day-65** | BI6.6 | Describe the biochemical processes involved in generation of energy in cells. Oxidative phosphorylation. | Lecture | AN23.1, 23.2 | Describe & demonstrate the external appearance, relations, blood supply, nerve supply,lymphatic drainage and applied anatomy of oesophagus, Describe & demonstrate the extent, relations tributaries of thoracic duct and enumerate its applied anatomy **VI Surgery** | DOAP Session | PY5.4 | Describe generation, conduction of cardiac impulse | Lecture |
| **Day-66** | PY5.5 | Describe the physiology of electrocardiogram (E.C.G), its applications and the cardiac axis | Lecture | Module 1.3 | AETCOM: Discussion on Doctor Patient relationship & closure with Assessment | Summative assessment (SAQs) | AN22.5 | Describe & demonstrate the formation, course, tributaries and termination of coronary sinus | Lecture |

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| PY2.11/PY3.15 | Blood group /Demonstrate effect of mild, moderate and severe exercise and record changes in cardiorespiratory parameters | DOAP/AP | C.M. 1.9 | Demonstrate the role of effective Communication skills in health in a simulated environment | DOAP | | Sports | |
| AN23.3 | Describe & demonstrate origin, course, relations, tributaries and termination of superior venacava, azygos, hemiazygos and accessory hemiazygos veins | Practical, Small Group Discussion` | PY5.6 | Describe abnormal ECG, arrythmias, heart block and myocardial Infarction **VI Medicine (nesting)** | Small Group Discussion | FC 4.6 Understand and respect the cultural diversities (group discussion) | | |

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| **Day-67** | AN22.6,22.7 | Describe the fibrous skeleton of heart, Mention the parts, position and arterial supply of the conducting system of heart | Lecture | AN 21.1, 21.2 | Identify and describe the salient features of sternum, typicalrib, lst rib and typical thoracic vertebra, Identify & describe the features of 2nd, 11th and 12th ribs, 1st, 11th and 12th thoracic vertebrae | DOAP Session | PY5.6 | Describe abnormal ECG, arrythmias, heart block and myocardial Infarction | Small group discussio n |
| **Day-68** | BI3.4 | Define and differentiate the pathways of carbohydrate metabolism-gluconeogenesis. **VI Medicine** | Lecture | C.M. 2.1, C.M. 2.2 | Describe the steps in clinico socio-cultural and demographic assessment of the individual, family and community, Describe the socio-cultural factors, family (types) and its role in health and disease | Lecture | AN23.1, 23.2 | Describe & demonstrate the external appearance, relations, blood supply, nerve supply,lymphatic drainage and applied anatomy of oesophagus, Describe & demonstrate the extent, relations tributaries of thoracic duct and enumerate its applied anatomy **HI Surgery** | Lecture |

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| FC 4.7 | Stress management | Small Group Discussio n | FC 4.8 Role of yoga & meditation in personal health (DOAP) | | | | | | |
| AN 23.3 AN23.4 | Describe & demonstrate origin, course, relations, tributaries and termination of superior venacava, azygos, hemiazygos and accessory hemiazygos veins.Mention the extent, branches and relations of arch of aorta & descending thoracic aorta | Practical | AN22.3, 22.4 | Describe & demonstrate origin, course and branches of coronary arteries , Describe anatomical basis of ischaemic heart disease | SDL | FC 5.2, 5.3 | English/ Local Languag e (Hindi) | small group teaching |

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| **Day-69** | AN 22, 24, 25 | Heart & Pericardium, Lungs & Trachea, Thorax<br>Visit to Radio diagnosis Xray | | | | ECE (Anatomy) | PY5.7 | Describe and discuss haemodynamics of circulatory system | Lecture | PY2.11/PY3.16 | Blood group, BT/CT/ Demonstrate Harvard Step test and describe the impact on induced physiologic parameters in a simulated environment | AP/DO | PY5.7 | Describe and discuss haemodynamics of circulatory system | Small Group Discussion | FC 5.5 | Computer skills - Assessing online content | DOAP |
| **Day-70** | PY5.7 | Describe and discuss haemodynamics of circulatory system | Lecture | FC 3.6 | visit to CHC | Field visit | AN23.4 | Mention the extent, branches and relations of arch of aorta & descending thoracic aorta | Lecture | AN25.7 | Identify structures seen on a plain x-ray chest (PA view) | Practical | | Sports/ Extarcurricular activities | | | Extracuricular activities | |
| **Day-71** | BI6.7 | Describe the processes involved in maintenance of normal pH, water & electrolyte balance of body fluids and the derangements associated with these.<br>**VI Medicne**<br>**HI Physiology** | Lecture | AN. 23.3 | Describe and demonstrate origin, course, relations, tributaries and termination of superior vena cava, azygous, hemi azygous, and accessory hemiazygous vein. | Lecture | PY5.8 | Describe and discuss local and systemic cardiovascular regulatory mechanisms | Lecture | PY2.11/PY3.16 | Blood group, BT/CT/ Demonstrate Harvard Step test and describe the impact on induced physiologic parameters in a simulated environment | AP/DO | C.M. 1.10 | Demonstrate the important aspects of the doctor patient relationship in a simulated environment | DOAP | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |

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| **Day-72** | PY5.6 | Abnormal ECG in Heart blocks,arrhythmias Myocardial infarction (Classroom) | | | | ECE (Physiology) | AN23.5, 23.6 | Identify & Mention the location and extent of thoracic sympathetic chain, Describe the splanchnic nerves | Lecture | | AN25.9 | Demonstrate surface marking of lines of pleural reflection, lung borders and fissures, trachea, heart borders, apex beat & surface projection of valves of heart | Practical | PY5.9 | Describe the cardiac outout & its regulation: ECHOCARDIOGRAPHY | Small Group Discussion | FC 4.2 Altruism as a virtue of physician (Small group discussion) | | |
| | **competency no.** | **9 AM -10 AM** | **mode** | **competency no.** | **10 AM -12 Noon** | **mode** | **competency no.** | **12 Noon -1 PM** | **mode** | **1 PM-2 PM** | **competency no.** | **2 PM -4 PM** | **mode** | **competency no.** | **4 PM-5 PM** | **mode** | **competency no.** | **5 PM-6 PM** | **mode** | |
| **Day-73** | AN23.7 | Mention the extent, relations and applied anatomy of lymphatic duct **VI Surgery** | Lecture | | PART COMPETITION VIVA | | PY 5.9 | Describe the cardiac outout & its regulation and factors affecting heart rate | Lecture | | BI3.9 | Discuss the mechanism and significance of blood glucose regulation in health and disease. Visit to Medicine ward (Diabetes) **VI Medicine** | | | | ECE (Biochemistry) | FC 4.2 Altruism - case discussion | | |
| **Day-74** | BI3.4 | Define and differentiate the pathways of carbohydrate metabolism-glycogen metabolism. **VI Medicine** | Lecture | | Anatomy FA & feedback | | AN25.2 | Describe development of pleura, lung & heart | Lecture | | AN65.1, 65.2 | Identify epithelium under the microscope & describe the various types that correlate to its function, Describe the ultrastructure of epithelium | Practical | AN23.1, 23.2 | Describe & demonstrate the external appearance, relations, blood supply, nerve supply,lymphatic drainage and applied anatomy of oesophagus, Describe & demonstrate the extent, relations tributari | SDL | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |

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| **Day-75** | AN25.3 | Describe fetal circulation and changes occurring at birth VI **Medicine** **HI Physiology** | Lecture | AN76.1, 76.2 | Describe the stages of human life, Explain the terms- phylogeny, ontogeny, trimester, viability | Small Group Teaching | PY5.9 | Describe the blood pressure & its components and factors affecting BP | Lecture |
| **Day-76** | PY5.9 | Describe the regulation of blood pressure | Lecture | BI11.3/BI3.7 & BI3.8 | Perform urine analysis to estimate and determine chemical components of normal urine./Describe the common poisons that inhibit crucial enzymes of carbohydrate metabolism (eg; fluoride, arsenate) & Discuss and interpret laboratory results of analytes associated with metabolism of carbohydrates. **HI Physiology** | DOAP/GD | AN25.4 | Describe embryological basis of: 1) atrial septal defect, 2) ventricular septal defect, 3) Fallot's tetralogy & 4) tracheo-oesophageal fistula **VI Medicine, Paediatrics** **HI Physiology** | Lecture |

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| PY3.18/PY3.16 | Observe with Computer assisted learning (i) amphibian nerve -muscle experiments / Demonstrate Harvard Step test and describe the impact on induced physiologic parameters in a simulated environment | Demonstration, Computer assisted learning methods /AP | PY5.10 | Describe & discuss regional circulation including cerebral, microcirculation, lymphatic circulation,capillary, skin **VI Medicine** | Small group discussion | FC 5.5 | Computer skills - Assessing online content | DOAP |
| AN77.1, 77.2 | Describe the uterine changes occurring during the menstrual cycle, Describe the synchrony between the ovarian and menstrual cycles | Small Group Teaching | | Gluconeogenesis and TCA cycle | SDL | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |

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| **Day-77** | BI6.7 | Describe the processes involved in maintenance of normal pH, water & electrolyte balance of body fluids and the derangements associated with these. **VI Medicine HI Physiology** | Lecture | AN. 66.1, 66.2 | Describe & identify various types of Connectivetissue with functional correlation, Ultrasructure of connective tissue | Practical | PY5.10 | Describe & discuss regional circulation coronary | Lecture |
| **Day-78** | PY5.9 | Hypertension & its complications (Hospital visit - Medicine Ward) | | | | ECE (Physiology) | AN25.5 | Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta **VI Medicine Pediatrics HI Physiology** | Lecture |

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| PY3.18/PY4.10 | Observe with Computer assisted learning (i) amphibian nerve - muscle experiments/ Demonstrate the correct clinical examination of the abdomen in a normal volunteer or simulated environment | Demonstration, Computer assisted learning methods / DO | C.M. 1.1 to 1.10 | Assessment of Concept of Health and Disease | | FC 5.5 | Computer skills - Assessing online content | DOAP |
| AN77.3, 77.4,77.5 | Describe spermatogenesis and oogenesis along with diagrams, Describe the stages and consequences of fertilisation, Enumerate and describe the anatomical principles underlying contraception | Small Group Teaching | PY5.10 | Describe & discuss regional circulation including microcirculation, lymphatic circulation,capillary, skin **VI Medicine** | Group discussion | FC 4.3 Value of integrity, respect and honesty (small group discussion) | | |

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| **Day-79** | AN25.6 | Mention development of aortic arch arteries, SVC, IVC and coronary sinus | Lecture | AN77.6 | Describe teratogenic influences; fertility and sterility, surrogate motherhood, social significance of “sex-ratio”. | Small Group Teaching | PY5.11 | Describe the patho-physiology of shock | Small Group Discussion |
| **Day-80** | BI3.4 | Define and differentiate the pathways of carbohydrate metabolism-HMP shunt. | Lecture | | Physiology FA & feedback | | AN66.1, 66.2 | Describe & identify various types of connective tissue with functional correlation, Describe the ultrastructure of connective tissue | Lecture |

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| BI3.7/BI3.8 & BI11.3 | Describe the common poisons that inhibit crucial enzymes of carbohydrate metabolism (eg; fluoride, arsenate) & Discuss and interpret laboratory results of analytes./Perform urine analysis to estimate and determine chemical components of normal urine. associated with metabolism of carbohydrates. **VI Medicine Patho** **HI Physiology** | Small group discussion/nDOAP | | FC 4.9 Time management (small group discussion) | | | | | |
| AN67.1, 67.2, 67.3 | Describe & identify various types of muscle under the microscope, Classify muscle and describe the structure-function correlation of the same, Describe the ultrastructure of muscular tissue | Practical, Small Group Discussion | AN25.4 | Describe embryological basis of: 1) atrial septal defect, 2) ventricular septal defect, 3) Fallot’s tetralogy & 4) tracheo-oesophageal fistula | SDL | FC 5.5 | Computer skills - Assessing online content | DOAP |

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| **Day-81** | AN76.1,76.2 | Describe the stages of human life, Explain the terms- phylogeny, ontogeny, trimester, viability | Lecutre | AN78.1, 78.2 | Describe cleavage and formation of blastocyst, Describe the development of trophoblast | Small Group Teaching | PY5.11 | Describe the patho-physiology of syncope and heart failure | Small Group Discussion |
| **Day-82** | PY6.2 | Describe the mechanics of normal respiration, pressure changes during ventilation, | Lecture | BI11.4 | Perform urine analysis to estimate and determine abnormal constituents. | DOAP | AN77.1, 77.2 | Describe the uterine changes occurring during the menstrual cycle, Describe the synchrony between the ovarian and menstrual cycles | Lecture |

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| PY3.18/PY4.10 | Observe with Computer assisted learning (i) amphibian nerve -muscle experiments Demonstrate the correct clinical examination of the abdomen in a normal volunteer or simulated environment | Demonstration, Computer assisted learning methods /AP | PY6.1 | Describe the functional anatomy of respiratory tract | SDL | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |
| AN78.3, 78.4,78.5 | Describe the process of implantation & common abnormal sites of implantation, Describe the formation of extra embryonic mesoderm and coelom, bilaminar disc and prochordal plate, Describe in brief abortion; decidual reaction, pregnancy test | Small Group Teaching | | Glycogen metabolism and HMP shunt | SDL | FC 5.5 | Computer skills - Assessing online content | DOAP |

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| **Day-83** | BI6.7 | Describe the processes involved in maintenance of normal pH, water & electrolyte balance of body fluids and the derangements associated with these. | Lecture | AN 68.1, 68.2, 68.3 | Describe & Identify multipolar & unipolar neuron, ganglia, peripheral, Describe the structure-function correlation of neuron, Describe the ultrastructure of nervous tissue | Practical | PY6.2 | Describe the lung volume and capacities, | Small Group Discussion | | PY3.18/PY4.10 | Observe with Computer assisted learning (i) amphibian nerve -muscle experiments Demonstrate the correct clinical examination of the abdomen in a normal volunteer or simulated environment | Demonstration, Computer assisted learning methods /AP | C.M. 2.1 | Perform clinico socio-cultural and demographic assessment of the individual, family and community | DOAP | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |
| **Day-84** | AN68.1,68.2,68.3 | Describe & Identify multipolar & unipolar neuron, ganglia, peripheral nerv, Describe the structure-function correlation of neuron, Describe the ultrastructure of nervous tissue | Lecture | AN79.5, 79.6 | Explain embryological basis of congenital malformations, nucleus pulposus, sacrococcygeal teratomas, neural tube defects, Describe the diagnosis of pregnancy in first trimester and role of teratogens, alpha-fetoprotein | Small Group Teaching | PY6.2 | Describe the ventilation, V/P ratio,diffusion capacity of lungs | Lecture | L U N C H | BI11.20 / BI11.5 | Identify abnormal constituents in urine, interpret the findings and correlate these with pathological states./Describe screening of urine for inborn errors & describe the use of paper chromatography. | practical /GD | FC 4.4 Working in a health care team (Group activity) | | | | |

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| **Day-85** | BI3.5, BI3.10 | Describe and discuss the regulation, functions and integration of carbohydrate along with associated diseases/disorders. & Interpret the results of blood glucose levels and other laboratory investigations related to disorders of carbohydrate metabolism. | Small group learning | | Biochemistry FA & feedback | | AN77.3, 77.4,77.5 | Describe spermatogenesis and oogenesis along with diagrams, Describe the stages and consequences of fertilisation, Enumerate and describe the anatomical principles underlying contraception | Lecture |
| **Day-86** | AN77.6 | Describe teratogenic influences; fertility and sterility, surrogate motherhood, social significance of “sex-ratio”. | Lecture | AN80.1 | Describe formation, functions & fate of- chorion: amnion; yolk sac; allantois & decidua | Small Group Teaching | PY6.3 | Describe and discuss the transport of respiratory gases: Oxygen | Lecture |

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| AN69.1, 69.2, 69.3 | Identify elastic & muscular blood vessels, capillaries under the microscope, Describe the various types and structure-function correlation of blood vessel, Describe the ultrastructure of blood vessels | Practical | AN68.1, 68.2,68.3 | Describe & Identify multipolar & unipolar neuron, ganglia, peripheral nerv, Describe the structure-function correlation of neuron, Describe the ultrastructure of nervous tissue | SDL | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |
| PY3.18/PY5.16 | Observe with Computer assisted learning (i) amphibian nerve - muscle experiments / Record Arterial pulse tracing using finger plethysmography in a volunteer or simulated environment | Demonstration, Computer assisted learning methods / DOAP sessions | PY5.10 | Describe & discuss regional circulation including foetal, pulmonary and splanchnic circulation | SDL | FC 5.5 | Computer skills - Assessing online content | DOAP |

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| **Day-87** | PY6.3 | Describe and discuss the transport of respiratory gases: Carbon dioxide | Lecture | BI11.20 / BI11.5 | Identify abnormal constituents in urine, interpret the findings and correlate these with pathological states./Describe screening of urine for inborn errors & describe the use of paper chromatography. | practical/GD | AN69.1, 69.2,69.3 | Identify elastic & muscular blood vessels, capillaries under the microscope, Describe the various types and structure-function correlation of blood vessel, Describe the ultrastructure of blood vessels | Lecture |
| **Day-88** | BI6.8 | Discuss and interpret results of Arterial Blood Gas (ABG) analysis in various disorders. | Lecture | AN70 | Glands & Lymphoid tissue | Practical | | Describe in detail the neural & chemical regulation of respiration | Lecture |

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| AN80.2, 80.3,80.7 | Describe formation & structure of umbilical cord, Describe formation of placenta, its physiological functions, foetomaternal circulation & placental barrier, Describe various types of umbilical cord attachments | Small Group Teaching | FC 4. 10 Understand the importance of interpersonal relationship (group task) | | | | | |
| PY3.18/PY5.15 | Observe with Computer assisted learning (ii) amphibian cardiac experiments/Demonstrate the correct clinical examination of the cardiovascular system in a normal volunteer or simulated environment | Demonstration, Computer assisted learning methods / DO | C.M. 2.2 | Demonstrate the correct assessment of socio-economic status of the family assigned | DOAP | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |

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| **Day-89** | | Obstructive & restrctive lung diseases<br>Visit to hospital - Respiratory Medicine | | | | ECE (Physiology) | AN78.1, 78.2 | Describe cleavage and formation of blastocyst, Describe the development of trophoblast | Lecture | AN80.4, 80.5 | Describe embryological basis of twinning in monozygotic & dizygotic twins, Describe role of placental hormones in uterine growth & parturition | Small Group Teaching | | Describe in detail the neural & chemical regulation of respiration | Group discussion | FC 4.11 | Role of mentoring | Small group discussion |
| **Day-90** | AN70.1 | Identify exocrine gland under the microscope & distinguish between serous, mucous and mixed acini | Lecture | AN80.4, 80.5 | Describe embryological basis of twinning in monozygotic & dizygotic twins, Describe role of placental hormones in uterine growth & parturition | Small Group Teaching | | Describe in detail the neural & chemical regulation of respiration | Lecture | BI3.5, BI3.10 | Discuss the regulation, functions and integration of carbohydrate along with associated diseases/disorders. & Interpret the results of blood glucose levels and other laboratory investigations related to disorders of carbohydrate metabolism. | | | | ECE (Biochemistry) | FC 5.5 | Computer skills - Assessing online content | DOAP |
| **Day-91** | BI6.8 | Discuss and interpret results of Arterial Blood Gas (ABG) analysis in various disorders. | Lecture | C.M. 1.10 | Demonstrate the important aspects of the doctor patient relationship in a simulated environment | DOAP | AN80.4, 80.5 | Describe embryological basis of twinning in monozygotic & dizygotic twins, Describe role of placental hormones in uterine growth & parturition | Small Group Teaching | AN80.4, 80.5 | Describe embryological basis of twinning in monozygotic & dizygotic twins, Describe role of placental hormones in uterine growth & parturition | Small Group Teaching | | | | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching |

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| **Day-92** | Disability competencies 4.5.1 to 4.5.8 | | | | | | | | |
| **Day-93** | BI4.1 | Describe and discuss main classes of lipids (Essential/non-essential fatty acids, cholesterol and hormonal steroids, triglycerides, major phospholipids and sphingolipids) relevant to human system and their major functions. **VI medicine** | Lecture | | Describe in detail the neural & chemical regulation of respiration | Lecture | AN70.1 | Identify exocrine gland under the microscope & distinguish between serous, mucous and mixed acini **VI Pathology** | Lecture |
| **Day-94** | PY6.6 | Describe and discuss the pathophysiology of hypoxia | Small Group discussion | FC 4.13 | Comprehend the learning pedagogy and its role in learning skills | group activity | AN70.1 | Identify exocrine gland under the microscope & distinguish between serous, mucous and mixed acini **VI Pathology** | Lecture |

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| Disability competencies 4.5.1 to 4.5.8 | | | | | | FC 5.5 | Computer skills - Assessing online content | DOAP | |
| PY3.18/PY5.15 | Observe with Computer assisted learning (ii) amphibian cardiac experiments/Demonstrate the correct clinical examination of the cardiovascular system in a normal volunteer or simulated environment | Demonstration, Computer assisted learning methods / DO | C.M. 2.1 | Perform clinico socio-cultural and demographic assessment of the individual, family and community | DOAP | FC 5.2, 5.3 | English/ Local Language (Hindi) | small group teaching | |
| AN80.4, 80.5 | Describe embryological basis of twinning in monozygotic & dizygotic twins, Describe role of placental hormones in uterine growth & parturition | Small Group Teaching | FC 4.15 Understand collaborative learning (Small group discussion) | | | | | | |

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| **Day-95** | AN70.1 | Identify exocrine gland under the microscope & distinguish between serous, mucous and mixed acini<br>**VI Pathology** | Lecture | AN80.4, 80.5 | Describe embryological basis of twinning in monozygotic & dizygotic twins, Describe role of placental hormones in uterine growth & parturition | Small Group Teaching | PY6.6 | Describe and discuss the pathophysiology of hypoxia | Small Group discussion | | BI11.20/ BI6.6 | Revision of Identification of abnormal constituents in urine./Discuss the biochemical processes involved in generation of energy in cells. Electron transport chain and Oxidative phosphorylation. | Practical /tutorial | FC 5.1 | Attitude & Communication | | | | Hospital visit |
| **Day-96** | White Coat ceremony | | | | | | | | | | AN80.4, 80.5 | Describe embryological basis of twinning in monozygotic & dizygotic twins, Describe role of placental hormones in uterine growth & parturition | Small Group Teaching | | AN80.4, 80.5 | Describe embryological basis of twinning in monozygotic & dizygotic twins, Describe role of placental hormones in uterine growth & parturition | SDL | | |
| | **competency no.** | **9 AM -10 AM** | **mode** | **competency no.** | **10 AM -12 Noon** | **mode** | **competency no.** | **12 Noon -1 PM** | **mode** | **1 PM-2 PM** | **competency no.** | **2 PM -4 PM** | **mode** | **competency no.** | **4 PM-5 PM** | **mode** | | | |

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| **Day-97** | AN70.1 | Identify exocrine gland under the microscope & distinguish between serous, mucous and mixed acini<br>**VI Pathology** | Lecture | AN 71 | Bone & Cartilage | Practical, Small Group Discussion | PY6.6 | Describe and discuss the pathophysiology of dyspnoea, cyanosis asphyxia; drowning, periodic breathing | Small Group discussion | | PY3.18/PY5.15 | Observe with Computer assisted learning (ii) amphibian cardiac experiments/ Demonstrate the correct clinical examination of the cardiovascular system in a normal volunteer or simulated environment | Demonstration, Computer assisted learning methods / AP | PY6.6 | Describe and discuss the pathophysiology of dyspnoea, cyanosis asphyxia; drowning, periodic breathing | Small Group discussion | | | |
| **Day-98** | PY6.6 | Describe and discuss the pathophysiology of dyspnoea, cyanosis asphyxia; drowning, periodic breathing | Small Group discussion | BI11.20/ BI6.6 | Revision of Identification of abnormal constituents in urine./Discuss the biochemical processes involved in generation of energy in cells. Electron transport chain and Oxidative phosphorylation. | Practical/tutorial | AN70.1 | Identify exocrine gland under the microscope & distinguish between serous, mucous and mixed acini<br>**VI Pathology** | Lecture | | AN 71 | Bone & Cartilage | Practical, Small Group Discussion | | maintenance of normal pH, water & electrolyte balance of body fluids | SDL | | | |

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| **Day-99** | BI4.1 | Describe and discuss main classes of lipids (Essential/non-essential fatty acids, cholesterol and hormonal steroids, triglycerides, major phospholipids and sphingolipids) relevant to human system and their major functions. **VI medicine** | Lecture | AN 77, 78, 79, 80, 81 | Gametogenesis and fertilization, Second, 3rd to 8th week of development, Fetal Membranes, Prenatal Diagnosis | Small Group Teaching | PY6.6 | Describe and discuss the pathophysiology of dyspnoea, cyanosis asphyxia; drowning, periodic breathing | Small Group discussio n |
| **Day-100** | PY6.4, 6.5 | Describe and discuss the physiology of high altitude & acclimatization | Lecture | PY3.18/P Y5.15 | Observe with Computer assisted learning (ii) amphibian cardiac experiments/ Demonstrate the correct clinical examination of the cardiovascular system in a normal volunteer or simulated environment | Demonstratio n, Computer assisted learning methods/ AP | AN78.3, 78.4,78. 5 | Describe the process of implantation & common abnormal sites of implantation, Describe the formation of extra embryonic mesoderm and coelom, bilaminar disc and prochordal plate, Describe in brief abortion; decidual reaction, pregnancy test | Lecture |

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| PY3.18/P Y5.15 | Observe with Computer assisted learning (ii) amphibian cardiac experiments/ Demonstrate the correct clinical examination of the cardiovascular system in a normal volunteer or simulated environment | Demonst ration, Compute r assisted learning methods / AP | C.M. 2.3 | Describe the assessm ent of barriers to good health and health seeking behavior | Small Group Discussio n | | | |
| AN 77, 78, 79, 80, 81 | Gametogenesis and fertilization, Second, 3rd to 8th week of development, Fetal Membranes, Prenatal Diagnosis | Small Group Teaching | PY6.4, 6.5 | Describe and discuss the physiolo gy of high altitude & acclimati zation | Group discussio n | | | |

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| **Day-101** | AN79.1,79.2,79.3,79.4 | Describe the formation & fate of the primitive streak, Describe formation & fate of notochord, Describe the process of neurulation, Describe the development of somites and intra-embryonic coelom | Lecture | AN 77, 78, 79, 80, 81 | Gametogenesis and fertilization, Second, 3rd to 8th week of development, Fetal Membranes, Prenatal Diagnosis | Lecture | PY6.4 | Describe and discuss the physiology deep sea diving | Lecture |
| **Day-102** | BI5.1 | Describe and discuss the classification & chemical reaction of amino acids. | Lecture | | Anatomy FA & feedback | | AN71.1, 71.2 | Identify bone under the microscope; classify various types and describe the structure-function correlation of the same, Identify cartilage under the microscope & describe various types and structure-function correlation of the same **VI Pathology** | Lecture |

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| | Practical Class Test/ Theory Viva | | | Sports/ Extarcurricular activities | | | | |
| AN 72 | Integumentary System | Practical | AN78.1, 78.2 | Describe cleavage and formation of blastocyst, Describe the development of trophoblast | SDL | | | |

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| **Day-103** | AN79.5,79.6 | Explain embryological basis of congenital malformations, nucleus pulposus, sacrococcygeal teratomas, neural tube defects, Describe the diagnosis of pregnancy in first trimester and role of teratogens, alpha-fetoprotein **VI Obs & Gyne** | Lecture | AN80.6 | Explain embryological basis of estimation of fetal age. **VI Obs & Gyne** | Small Group Teaching | PY6.5 | Describe and discuss the principles of artificial respiration, oxygen therapy and decompression sickness. | Lecture |
| **Day-104** | PY6.5 | Describe and discuss the principles of artificial respiration, oxygen therapy and decompression sickness. | Lecture | | Practical Class Test/ Theory Viva | | AN72.1 | Identify the skin and its appendages under the microscope and correlate the structure with function | Lecture |

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| PY3.18/PY5.13 | Observe with Computer assisted learning (ii) amphibian cardiac experiments/ Record and interpret normal ECG in a volunteer or simulated environment | Demonstration, Computer assisted learning methods / DO | PY4.1 | Describe the structure and functions of digestive system **HI Anatomy** | SDL | | | |
| AN81.181.2,81.3 | Describe various methods of prenatal diagnosis, Describe indications, process and disadvantages of amniocentesis, Describe indications, process and disadvantages of chorion villus biops **VI Obs & Gyne** | Small Group Teaching | | Revision class for pH and Buffer | Small Group Learning | | | |

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| **Day-105** | BI4.1 | Describe and discuss main classes of lipids (Essential/non-essential fatty acids, cholesterol and hormonal steroids, triglycerides, major phospholipids and sphingolipids) relevant to human system and their major functions. VI medicine | Lecture | AN81.18 1.2,81.3 | Describe various methods of prenatal diagnosis, Describe indications, process and disadvantages of amniocentesis, Describe indications, process and disadvantages of chorion villus biops **VI Obs & Gyne** | Small Group Teaching | PY6.7 | Describe and discuss lung function tests & their clinical significance | Lecture | PY3.18/PY5.13 | Observe with Computer assisted learning (ii) amphibian cardiac experiments/ Record and interpret normal ECG in a volunteer or simulated environment | Demonstration, Computer assisted learning methods / DO | C.M. 2.3 | Demonstrate the assessment of barriers to good health and health seeking behavior | DOAP | | | |
| **Day-106** | PY 4.2 | Describe the composition, mechanism of secretion and regulation of saliva **HI Biochemistry** | Lecture | PY3.18/PY5.13 | Observe with Computer assisted learning (ii) amphibian cardiac experiments/ Record and interpret normal ECG in a volunteer or simulated environment | Demonstration, Computer assisted learning methods/ AP | AN80.1 | Describe formation, functions & fate of-chorion: amnion; yolk sac; allantois & decidua | Lecture | AN25.2 | Describe development of pleura, lung & heart | Small Group Teaching | PY 4.2 | Describe the composition, mechanism of secretion and regulation of saliva | Lecture | | | |
| **Day-107** | AN80.2,80.3,80.7 | Describe formation & structure of umbilical cord, Describe formation of placenta, its physiological functions, foetomaternal circulation & placental barrier, Describe various types of umbilical cord attachments **VI Obs & Gyne** | Lecture | AN25.3 | Describe fetal circulation and changes occurring at birth **VI Medicine** **HI Phsiology** | Small Group Teaching | | Describe the physiology of mastication & deglutition | Lecture | BI11.6 | Describe the principles of colorimetry | DOAP | | Sports/ Extarcurricular activities | | | | |

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| **Day-108** | BI5.1 | Describe and discuss structural organization of proteins. Classification. | Lecture | | Physiology FA & feedback | | AN80.4, 80.5 | Describe embryological basis of twinning in monozygotic & dizygotic twins, Describe role of placental hormones in uterine growth & parturition **VI OBS & GYNE** | Lecture |
| **Day-109** | AN80.6 | Explain embryological basis of estimation of fetal age. **VI Obs & Gynae** | Lecture | AN25.4 | Describe embryological basis of: 1) atrial septal defect, 2) ventricular septal defect, 3) Fallot's tetralogy & 4) tracheo-oesophageal fistula **VI Medicine, Pediatrics** **HI Physiology** | Small Group Disscussion | PY 4.2 | Describe the composition, mechanism of secretion, functions and regulation of gastric juice **HI Biochemistry** | Lecture |

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| AN25.1 | Identify, draw and label a slide of trachea and lung | Practical | AN80.2, 80.3, | Describe formation & structure of umbilical cord, Describe formation of placenta, its physiological functions, foetomaternal circulation & placental barrier, | SDL | | | |
| PY3.18/PY5.13 | Observe with Computer assisted learning (ii) amphibian cardiac experiments/ Record and interpret normal ECG in a volunteer or simulated environment | Demonstration, Computer assisted learning methods / AP | PY 4.2 | Describe the functions of saliva | SDL | | | |

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| **Day-110** | PY 4.2 | Describe the composition, mechanism of secretion, functions and regulation of gastric juice | Lecture | BI11.21 / BI6.7 | Demonstrate estimation of glucose in serum./ Discuss the processes involved in maintenance of normal pH, water & electrolyte balance of body fluids and the derangements associated with these. | Practical/Group discussion | AN81.18 1.2,81.3 | Describe various methods of prenatal diagnosis, Describe indications, process and disadvantages of amniocentesis, Describe indications, process and disadvantages of chorion villus biops **VI Obs & Gyne** | Lecture | L U N C H | AN25.5 | Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta **VI Medicine & Pediatrics HI Physiology** | Small Group Disscussion | | Sports/ Extarcurricular activities | | | | |
| **Day-111** | BI4.1 | Describe and discuss main classes of lipids (Essential/non-essential fatty acids, cholesterol and hormonal steroids, triglycerides, major phospholipids and sphingolipids) relevant to human system and their major functions. **VI medicne** | Lecture | AN25.6 | Mention development of aortic arch arteries, SVC, IVC and coronary sinus | Small Group Disscussion | PY 4.3 | Describe gastric motility, its regulation & functions | Lecture | | PY3.18/PY5.14 | Observe with Computer assisted learning (ii) amphibian cardiac experiments/ Observe cardiovascular autonomic function tests in a volunteer or simulated environment | Demonstration, Computer assisted learning methods / DO | C.M. 2.4 | Describe social psychology, community behaviour and community relationship and their impact on health and disease | Lecture | | | |

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| **Day-112** | PY4.9 | peptic ulcer, gastrooesophageal reflux disease<br>Hospital visit to medicine | | | | ECE (Physiology) | AN81.18 1.2,81.3 | Describe various methods of prenatal diagnosis, Describe indications, process and disadvantages of amniocentesis, Describe indications, process and disadvantages of chorion villus biops **VI Obs & Gyne** | Lecture |
| **Day-113** | AN44.1 | Describe & demonstrate the Planes (transpyloric, transtubercular, subcostal, lateral vertical, linea alba, linea semilunaris), regions & Quadrants of abdomen **VI Surgery** | Lecture | AN44.1 | Describe & demonstrate the Planes (transpyloric, transtubercular, subcostal, lateral vertical, linea alba, linea semilunaris), regions & Quadrants of abdomen **VI Surgery** | DOAP Session | PY 4.7 | Describe & discuss the structure and functions of liver and gall bladder **HI Biochemistry** | Lecture |

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| | **PART COMPETITION VIVA** | | PY4.9 | Discuss the physiology aspects of: peptic ulcer, gastrooesophageal reflux disease **VI Medicine HI Biochemistry** | Small Group Discussion | | | |
| BI6.8 | Discuss and Interpret results of Arterial Blood Gas (ABG) analysis in various disorders. **VI medicine** | | | | ECE (Biochemistry | | | |

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| **Day-114** | BI5.1 | Describe and discuss structural organization of proteins. Classification. | Lecture | | Biochemistry FA & feedback | | AN44.2, 44.7 | Describe & identify the Fascia, nerves & blood vessels of anterior abdominal wall, Enumerate common Abdominal incisions | Lecture |
| **Day-115** | AN44.3,44.6 | Describe the formation of rectus sheath and its contents, Describe & demonstrate attachments of muscles of anterior abdominal wall **VI Surgery** | Lecture | AN44.2, 44.7 | Describe & identify the Fascia, nerves & blood vessels of anterior abdominal wall, Enumerate common Abdominal incisions **VI Surgery** | Smallgroup discussion, Practical | PY 4.2 | Describe the composition, mechanism of secretion, functions, and regulation of bile secretion **HI Biochemistry** | Lecture |

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| AN44.1 | Describe & demonstrate the Planes (transpyloric, transtubercular, subcostal, lateral vertical, linea alba, linea semilunaris), regions & Quadrants of abdomen | DOAP Session | AN80.4, 81.1 | Describe embryological basis of twinning in monozygotic & dizygotic twins,Describe various methods of prenatal diagnosis, Describe indications, process and disadvantages of amniocentesis | SDL | | | |
| PY3.18/PY5.14 | Observe with Computer assisted learning (ii) amphibian cardiac experiments/ Observe cardiovascular autonomic function tests in a volunteer or simulated environment | Demonstration, Computer assisted learning methods / AP | PY4.4 | Describe the physiology of digestion and absorption of nutrients **HI Biochemistry** | SDL | | | |

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| **Day-116** | PY 4.2 | Describe the composition, mechanism of secretion, functions, and regulation of pancreatic secretion | Lecture | BI6.7 / BI11.21 | Discuss the processes involved in maintenance of normal pH, water & electrolyte balance of body fluids and the derangements associated with these./ Demonstrate estimation of glucose in serum. **VI Medicine** | Group discussion/ practical | AN44.4, 44.5 | Describe & demonstrate extent, boundaries, contents of Inguinal canal including Hesselbach's triangle, Explain the anatomical basis of inguinal hernia. | Lecture |
| **Day-117** | BI4.2 | Describe the processes involved in digestion and absorption of dietary lipids and also the key features of their metabolism. Fatty acid oxidation and ketosis. **VI medicine** | Lecture | AN44.3, 44.6 | Describe the formation of rectus sheath and its contents, Describe & demonstrate attachments of muscles of anterior abdominal wall **VI Surgery** | Practical | PY 4.2 | Describe the composition, mechanism of secretion, functions, and regulation of intestinal juices **HI Biochemistry** | Lecture |

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| AN44.2, 44.7 | Describe & identify the Fascia, nerves & blood vessels of anterior abdominal wall, Enumerate common Abdominal incisions | Smallgroup discussion, Practical | | Sports/ Extarcurricular activities | | | | |
| PY5.14 | Demostrate apparatus and principles of the hemocytometry/ Observe cardiovascular autonomic function tests in a volunteer or simulated environment | Demonstration, / AP | C.M. 2.5 | Describe poverty and social security measures and its relationship to health and disease | Small Group Discussion | | | |

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| **Day-118** | PY 4.2 | Describe the composition, mechanism of secretion, functions, and regulation of intestinal juices | Lecture | PY5.14 | Demostrate apparatus and principles of the hemocytometry/ Observe cardiovascular autonomic function tests in a volunteer or simulated environment | Demonstration, / AP | AN45.1, 45.2,45.3,47.12 | Describe Thoracolumbar fascia, Describe & demonstrate Lumbar plexus for its root value, formation & branches, Mention the major subgroups of back muscles, nerve supply and action, Describe important nerve plexuses of posterior abdominal wall | Lecture | AN44.4, 44.5 | Describe & demonstrate extent, boundaries, contents of Inguinal canal including Hesselbach's triangle, Explain the anatomical basis of inguinal hernia. **Vi Surgery** | Practical | PY 4.3 | Describe small intestinal motility, its regulation & functions | Lecture | | | |
| **Day-119** | AN46.1,46.4,46.5 | Describe & demonstrate coverings, internal structure, side determination, blood supply, nerve supply, lymphatic drainage & descent of testis with its applied anatomy, Explain the anatomical basis of Varicocoele, Explain the anatomical basis of Phimosis & Circumcision **VI Surgery** | Lecture | AN46.1, 46.4,46.5 | Describe & demonstrate coverings, internal structure, side determination, blood supply, nerve supply, lymphatic drainage & descent of testis with its applied anatomy, Explain the anatomical basis of Varicocoele, Explain the anatomical basis of Phimosis & Circumcision **VI Surgery** | Practical | PY 4.3 | Describe small intestinal motility, its regulation & functions | Lecture | BI11.9/ BI4.2 | Demonstrate the estimation of serum total cholesterol./ Fatty acid oxidation and ketosis. And Fatty acids biosynthesis **VI medicine** | Practical / tutorial | | Sports/ Extarcurricular activities | | | | |

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| **Day-120** | BI5.3 | Describe the digestion and absorption of dietary proteins. Catabolism of amino acids and ammonia metaboilsm.<br>**VI pediatrics** | Lecture | C.M. 3.1, C.M. 3.1 | Describe the health hazards of air and water pollution and its control and prevention/ Describe the health hazards of noise and radiation pollution and its control and prevention | Lecture | AN46.2, 46.3 | Describe parts of Epididymis, Describe Penis under following headings: (parts, components, blood supply and lymphatic drainage) | Lecture | | 47.13, 53.1, 53.4 | Describe & demonstrate the attachments, openings, nerve supply & action of the thoracoabdominal diaphragm, Identify & hold the bone in the anatomical position, Describe the salient features, articulations & demonstrate the attachments of muscle groups, Explain and demonstrate clinical importance of bones of abdominopelvic region (sacralization of | DOAP Session | AN44.1, 44.3 | Describe & demonstrate the Planes (transpyloric, transtubercular, subcostal, lateral vertical, linea alba, linea semilunaris), regions & Quadrants of abdomen, Describe the formatio | SDL | | | |
| **Day-121** | AN44.4,44.5 | Inguinal hernia<br>visit to surgery ward | | | | ECE (Anatomy) | PY 4.3 | Describe the physiology of large intestine, its motility, Defaecation reflex and role of dietary fibre | L | | PY2.11/PY5.14 | Estimate the RBC count / Observe cardiovascular autonomic function tests in a volunteer or simulated environment | DO/AP | PY4.4 | Describe the physiology of digestion and absorption of nutrients | SDL | | | |
| **Day-122** | PY 4.5 | Describe the source of GIT hormones, their regulation and functions | Lecture | BI11.9/ BI4.2 | Demonstrate the estimation of serum total cholesterol./ Fatty acid oxidation and ketosis. And Fatty acids biosynthesis<br>**VI medicne** | Practical/ tutorial | AN47.2 | Name & identify various peritoneal folds & pouches with its explanation<br>**VI Surgery** | Lecture | | AN47.2 | Name & identify various peritoneal folds & pouches with its explanation | Smallgroup discussion, Practical | | Revision class for Amino acids classification & structural organization of proteins | Lecture | | | |

| | competency no. | 9 AM -10 AM | mode | competency no. | 10 AM -12 Noon | mode | competency no. | 12 Noon -1 PM | mode | 1 PM-2 PM | competency no. | 2 PM -4 PM | mode | competency no. | 4 PM-5 PM | mode | | | |
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| **Day-123** | BI4.2 | Fatty acids biosynthesis **VI medicine** | Lecture | AN47.5, 47.6 | Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects), Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis | Practical | PY 4.5 | Describe the source of GIT hormones, their regulation and functions | Lecture | | PY2.11/PY5.14 | Estimate the RBC count / Observe cardiovascular autonomic function tests in a volunteer or simulated environment | DO/AP | C.M. 2.1 to 2.5 | Assessment of Relationship of social and behavioural factors to health and diseases | | | | |
| **Day-124** | PY4.6 | Describe the Gut-Brain Axis | Lecture | PY2.11/PY6.8 | Estimate the RBC count / Demonstrate the correct technique to perform & interpret Spirometry simulated environment **VI Respiratory Medicine** | AP/DO | AN47.3, 47.4 | Explain anatomical basis of Ascites & Peritonitis, Explain anatomical basis of Subphrenic abscess | Lecture | | AN47.5, 47.6 | Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects), Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of | Practical | PY 4.5 | Describe the source of GIT hormones, their regulation and functions | Group discussion | | | |

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| **Day-125** | AN47.5,47.6 | Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects), Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **VI Surgery** | Lecture | AN47.5, 47.6 | Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects), Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis | Practical | PY4.8 | Describe & discuss gastric function tests, liver & pancreatic function tests **HI Biochemistry** | Lecture | | BI4.2 & BI4.4 | Metabolism of triacylglycerol, adipose tissue and fatty liver.Lipoproteins and its relations with atherosclerosis. **VI Medicine** | Group discussion | | Sports/ Extarcurricular activities | | | | |
| **Day-126** | BI5.4 | Metabolism of Aromatic and Branched chain Amino acids **VI pediatrics** | Lecture | | Anatomy FA & Feedback | | AN47.5, 47.6 | Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects), Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of | Lecture | | AN52.1 | Describe & identify the microanatomical features of Gastro-intestinal system: Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland | Practical | AN44.4, 44.5 | Describe & demonstrate extent, boundaries, contents of Inguinal canal including Hesselbach's triangle, Explain the anatomical basis of inguinal hernia. | SDL | | | |

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| **Day-127** | AN47.5,47.6,47.7 | Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects), Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach, Mention the clinical importance of Calot's triangle<br>**VI Surgery** | Lecture | AN47.5, 47.6 | Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects), Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis | Practical, DOAP Session | PY4.8 | Describe & discuss gastric function tests, liver & pancreatic function tests<br>**HI Biochemistry** | Lecture |
| **Day-128** | PY4.9 | Discuss the physiology aspects of: vomiting, diarrhoea, constipation, Adynamic ileus, Hirschsprung's disease<br>**VI Medicine** | Small group discussion | BI11.9 | Demonstrate the estimation of serum HDL cholesterol. | Practical | AN47.9 | Describe & identify the origin, course, important relations and branches of Abdominal aorta, Coeliac trunk, Superior mesenteric, Inferior mesenteric & Common iliac artery | Lecture |

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| PY2.11/PY6.8 | Estimate the RBC count / Demonstrate the correct technique to perform & interpret Spirometry simulated environment | AP/DO | PY7.1 | Describe structure and function of kidney | SDL | | | |
| AN47.8, 47.9 | Describe & identify the formation, course relations and tributaries of Portal vein, Inferior vena cava & Renal vein, Describe & identify the origin, course, important relations and branches of Abdominal aorta, Coeliac trunk, Superior mesenteric, Inferior mesenteric & Common iliac artery | Practical | | Fatty acid oxidation and ketosis, Denovosynthesis of fatty acids | SDL | | | |

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| **Day-129** | BI4.3 | Explain the regulation of lipoprotein metabolism & associated disorders. | Lecture | AN47.8, 47.9 | Describe & identify the formation, course relations and tributaries of Portal vein, Inferior vena cava & Renal vein, Describe & identify the origin, course, important relations and branches of Abdominal aorta, Coeliac trunk, Superior mesenteric, Inferior mesenteric & Common iliac artery | Practical | PY7.2 | Describe the structure and functions of juxta glomerular apparatus | Lecture | PY2.12/PY6.8 | Describe test for Hematocrit. Note the findings and interpret the test results etc/ Demonstrate the correct technique to perform & interpret Spirometry | DO/AP | C.M. 3.1 | Discuss the health hazards of air pollution and its control and preventi on | Self directed learning | | | |
| **Day-130** | PY 4.9 | Vomiting & Diarrhoea Hospital visit to Pediatrics | | | | ECE (Physiology) | AN47.8, 47.10,47 .11 | Describe & identify the formation, course relations and tributaries of Portal vein, Inferior vena cava & Renal vein,, Enumerate the sites of portosystemic anastomosis, Explain the anatomic basis of hematemesis& caput medusae in portal hypertension | Lecture | AN47.5, 47.6 | Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects), Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of | Practical, DOAP Session | PY7.3 | Describe the mechani sm of urine formatio n involving processe s of filtration | Small Group Discussio n | | | |

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| **Day-131** | AN47.14 | Describe the abnormal openings of thoracoabdominal diaphragm and diaphragmatic hernia | Lecture | AN47.5, 47.6 | Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects), Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis | Practical, DOAP Session | PY7.3 | Describe the mechanism of urine formation involving processes of filtration | Lecture |
| **Day-132** | BI5.4 | Metabolism of Histidine, Prolin, Acidic and Basic amino acids.<br>**VI Pediatrics** | Lecture | | Physiology FA & feedback | | AN47.5, 47.6 | Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects), Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of | Lecture |

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| BI11.10 / BI4.2 | Demonstrate the estimation of triglycerides/ Phospholipid and Sphingolipid metabolism<br>**VI Medicine** | Practical /tutorial | | Sports/ Extarcurricular activities | | | | |
| AN52.1 | Describe & identify the microanatomical features of Gastro-intestinal system: Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland | Practical | AN47.10 ,47.11 | Enumerate the sites of portosystemic anastomosis, Explain the anatomic basis of hematemesis& caput medusae in portal hypertension | SDL | | | |

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| **Day-133** | AN47.5,47.6 | Obstructive jaundice, Referred pain in cholecystitis, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach classroom | | | | ECE (Anatomy) | PY7.3 | Describe the mechanism of urine formation involving processes of tubular reabsorption & secretion | Lecture | L U N C H | PY2.11/PY6.9 | Estimate the RBC indices/Demonstrate the correct clinical examination of the respiratory system in a normal volunteer or simulated environment | DOAP/DO | PY7.2 | Describe the role of renin-angiotensin system | Small Group Discussion | | | |
| **Day-134** | PY7.3 | Describe the mechanism of urine formation involving processes of tubular reabsorption & secretion | Lecture | BI11.10 / BI4.2 | Demonstrate the estimation of triglycerides/ Phospholipid and Sphingolipid metabolism **VI medicine** | Practical/tutorial | AN47.5, 47.6 | Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects), Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of | Lecture | | AN49.1, 49.2,49.3 | Describe & demonstrate the superficial & deep perineal pouch boundaries and contents), Describe & identify Perineal body, Describe & demonstrate Perineal membrane in male & female **VI Obs & gyne** | Practical | | Revision class for Cholesterol Metabolism and its derivatives | Small Group learning | | | |

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| **Day-135** | BI4.3 | Explain the regulation of lipoprotein metabolism & associated disorders. **VI meidicne** | Lecture | AN49.4, 49.5 | Describe & demonstrate boundaries, content & applied anatomy of Ischiorectal fossa, Explain the anatomical basis of Perineal tear, Episiotomy, Perianal abscess and Anal fissure | Practical | PY7.3 | Describe the mechanism of urine formation involving processes of concentration and diluting mechanism | Lecture |
| **Day-136** | PY7.4 | Describe & discuss the significance & implication of Renal clearance | Lecture | PY2.11/PY6.9 | RevisionEstimate the RBC count/Demonstrate the correct clinical examination of the respiratory system in a normal volunteer or simulated environment | DOAP/AP | AN49.1, 49.2,49.3 | Describe & demonstrate the superficial & deep perineal pouch boundaries and contents), Describe & identify Perineal body, Describe & demonstrate Perineal membrane in male & female | Lecture |

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| PY2.11/PY6.9 | Estimate the RBC indices/Demonstrate the correct clinical examination of the respiratory system in a normal volunteer or simulated environment | DOAP/DO | C.M. 3.1 | Discuss the health hazards of water pollution and its control and preventi on | Self directed learning | | | |
| AN49.4, 49.5 | Describe & demonstrate boundaries, content & applied anatomy of Ischiorectal fossa, Explain the anatomical basis of Perineal tear, Episiotomy, Perianal abscess and Anal fissure | Practical | PY7.4 | Describe & discuss the significa nce & implicati on of Renal clearanc e | Group discussio n | | | |

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| **Day-137** | AN49.4,49.5 | Describe & demonstrate boundaries, content & applied anatomy of Ischiorectal fossa, Explain the anatomical basis of Perineal tear, Episiotomy, Perianal abscess and Anal fissure<br>**VI Obs & gyne** | Lecture | AN50.1, 50.2,50.3 | Describe the curvatures of the vertebral column, Describe & demonstrate the type, articular ends, ligaments and movements of Intervertebral joints, Sacroiliac joints & Pubic symphysis, Describe lumbar puncture (site, direction of the needle, structures pierced during the lumbar puncture)<br>**VI Medicne** | Smallgroup discussion, Practical | PY7.5 | Describe the renal regulation of acid-base balance | Lecture |
| **Day-138** | BI5.4 | Describe common disorders associated with protein metabolism.<br>**VI Pediatrics** | Lecture | | Biochemistry FA & feedback | | AN50.1, 50.2,50.3 | Describe the curvatures of the vertebral column, Describe & demonstrate the type, articular ends, ligaments and movements of Intervertebral joints, Sacroiliac joints & Pubic symphysis, Describe lumbar puncture (site, direction of the needle, structures pierced during the lumbar puncture) | Lecture |

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| | BI5.4 | Describe common disorders associated with protein metabolism. Classroom | | | | ECE (Biochemistry) | | | |
| | AN52.1, 52.3 | Describe & identify the microanatomical features of Gastro-intestinal system: Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland, Describe & identify the microanatomical features of Cardiooesophageal junction, Corpus luteum | Practical | AN13,47.14 | Describe & demonstrate the attachments, openings, nerve supply & action of the thoracoabdominal diaphragm,Describe the abnormal openings of thoracoabdominal diaphragm and diaphrag | SDL | | | |

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| **Day-139** | AN52.4,52.5 | Describe the development of anterior abdominal wall, Describe the development and congenital anomalies of Diaphragm | Lecture | AN53.1, 53.4 | Identify & hold the bone in the anatomical position, Describe the salient features, articulations & demonstrate the attachments of muscle groups, Explain and demonstrate clinical importance of bones of abdominopelvic region (sacralization of lumbar vertebra, Lumbarization of 1st sacral vertebra, types of bony pelvis & Coccyx) | Smallgroup Teaching, Practical | PY7.5 | Describe the renal regulation of fluid and electrolytes & acid-base balance | Lecture |
| **Day-140** | BI4.4 | Describe the structure and functions of lipoproteins, their functions, interrelations & relations with atherosclerosis **VI Medicine** | Small group learning | AN53.2, 53.3 | Demonstrate the anatomical position of bony pelvis & show boundaries of pelvic inlet, pelvic cavity, pelvic outlet, Define true pelvis and false pelvis and demonstrate sex determination in male & female bony pelvis | DOAP session | PY7.6 | Describe the innervations of physiology of micturition and its abnormalities | Small Group discussio n |

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| PY2.11/PY6.9 | RevisionEstimate the RBC count/Demonstrate the correct clinical examination of the respiratory system in a normal volunteer or simulated environment | DOAP/AP | PY7.5 | Describe the renal regulation of fluid and electrolytes | Small Group Discussio n | | | |
| PY2.11/PY4.10 | Revision DLC/Demonstrate the correct clinical examination of the abdomen in a normal volunteer or simulated environment | DOAP/DO | C.M. 3.1 | Discuss the health hazards of noise pollution and its control and preventi on | Small Group Discussio n | | | |

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| **Day-141** | PY7.9 | Describe cystometry and discuss the normal cystometrogram | Lecture | PY2.11/PY4.10 | Revision DLC/Demonstrate the correct clinical examination of the abdomen in a normal volunteer or simulated environment | DOAP/DO | AN52.6 | Describe the development and congenital anomalies of: Foregut, Midgut & Hindgut **VI Surgery** | Lecture | | AN51.1, 51.2 | Describe & identify the cross-section at the level of T8, T10 and L1 (transpyloric plane), Describe & identify the midsagittal section of male and female pelvis | Smallgroup discussion, Practical | | Renal revision | | | | |
| **Day-142** | 1st terminal examination | | | | | | | | | | | | | | | | | | |
| **Day-143** | | | | | | | | | | | | | | | | | | | |
| **Day-144** | | | | | | | | | | | | | | | | | | | |
| **Day-145** | | | | | | | | | | | | | | | | | | | |
| **Day-146** | | | | | | | | | | | | | | | | | | | |
| **Day-147** | | | | | | | | | | | | | | | | | | | |
| | **competency no.** | **9 AM -10 AM** | **mode** | **competency no.** | **10 AM -12 Noon** | **mode** | **competency no.** | **12 Noon -1 PM** | **mode** | **1 PM-2 PM** | **competency no.** | **2 PM -4 PM** | **mode** | **competency no.** | **4 PM-5 PM** | **mode** | | | |
| **Day-148** | BI4.2 | Cholesterol Metabolism | Lecture | C.M. 3.2 | Describe concepts of safe and wholesome water, sanitary sources of water & water purification processes on Small Scale/ Describe water purification processes on Large Scale | Lecture | AN52.7 | Describe the development of Urinary system **VI Surgery** | Lecture | | AN52.2 | Describe & identify the microanatomical features of: Urinary system: Kidney, Ureter & Urinary bladder | Practical | AN49.4, 49.5 | Describe & demonstrate boundaries, content & applied anatomy of Ischiorectal fossa, Explain the anatomical basis of Perineal tear, Episiotomy, Perianal abscess and Anal fissure | SDL | | | |

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| **Day-149** | AN54.2, 54.3 | Describe & identify the special radiographs of abdominopelvic region (contrast X ray Barium swallow, Barium meal, Barium enema, Cholecystography, Intravenous pyelography & Hysterosalpingography), Describe role of ERCP, CT abdomen, MRI, Arteriography in radiodiagnosis of abdomen.<br>**VI Radiodiagnosis**<br>Visit to Radiodiagnosis | | | | ECE (Anatomy) | PY7.7 | Describe artificial kidney, dialysis and renal transplantation | Lecture | | PY2.11/PY4.10 | Revision DLC/Demonstrate the correct clinical examination of the abdomen in a normal volunteer or simulated environment | DOAP/DO | PY7.8 | Describe & discuss Renal Function Tests **HI Biochemistry (sharing)** | Small Group Discussion | | | |
| **Day-150** | PY9.1 | Describe and discuss sex determination; sex differentiation | Lecture | BI11.21 / BI6.2 | Demonstrate the estimation of serum urea and Urea clearance/ Discuss the Purine metabolism | Practical/tutorial | AN48.1 | Describe & identify the muscles of Pelvic diaphragm | Lecture | | AN48.2, AN48.1 | Describe & identify the muscles of Pelvic diaphragm, Describe & demonstrate the (position, features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and clinical aspects of) important male & female pelvic viscera | Practical, DOAP session | | Sports/ Extarcurricular activities | | | | |

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| **Day-151** | BI6.2 | Describe and discuss the Biomedical importance, structure of nucleotides. | Lecture | AN48.2 | Describe & demonstrate the (position, features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and clinical aspects of) important male & female pelvic viscera | Practical, DOAP session | PY9.1 | Describe and discuss the abnormities and outline psychiatry and practical implication of sex determination. | Lecture |
| **Day-152** | PY9.2 | Describe and discuss puberty: onset, progression, stages of puberty | Lecture | Module 1.4 | AETCOM: principles of communication. | large group discussion | AN48.2, 48.5 | Describe & demonstrate the (position, features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and clinical aspects of) important male & female pelvic viscera, Explain the anatomical basis of suprapubic cystostomy, Urinary obstruction in benign prostatic hypertrophy, Retroverted uterus, Prolapse uterus, Internal and external | Lecture |

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| PY 2.13/ PY10.11 | Describe steps for reticulocyte/Clinical Examination of nervous system - higher functions **HI anatomy** | DOAP | C.M. 3.2 | Describe the concepts of water conservation and rainwater harvesting | Small Group Discussion | | | |
| AN48.2 | Describe & demonstrate the (position, features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and clinical aspects of) important male & female pelvic viscera | Practical, DOAP session | PY9.2 | Describe and discuss puberty: onset, progression, stages of puberty | Small Group Discussion | | | |

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| **Day-153** | AN48.2,48.5 | Describe & demonstrate the (position, features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and clinical aspects of) important male & female pelvic viscera, Explain the anatomical basis of suprapubic cystostomy, Urinary obstruction in benign prostatic hypertrophy, Retroverted uterus, Prolapse uterus, Internal and external haemorrhoids, Anal fistula, Vasectomy,Tubal pregnancy & Tubal ligation **VI Surgery** | Lecture | AN48.3, 48.4 | Describe & demonstrate the origin, course, important relations and branches of internal iliac artery, Describe the branches of sacral plexus | Practical, DOAP session | Module 1.4 | AETCOM: importance and techniques of effective communication. | SDL |
| **Day-154** | | Hormone - General properties and Mechanism of Action. Hypothalamic and Pituitary Hormone | Small Group Discussion | | Biochemistry FA & feedback | | AN48.3, 48.4 | Describe & demonstrate the origin, course, important relations and branches of internal iliac artery, Describe the branches of sacral plexus | Lecture |

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| BI11.21 / BI6.2 | Demonstrate the estimation of serum urea and Urea clearance/ Discuss the Purine metabolism | Practical /tutorial | | Sports | | | | |
| AN52.2 | Describe & identify the microanatomical features of: Male Reproductive System: Testis, Epididymis,Vas deferens, Prostate & penis | Practical | AN52.7 | Describe the development of Urinary system | SDL | | | |

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| **Day-155** | AN48.2,48.7 | Describe & demonstrate the (position, features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and clinical aspects of) important male & female pelvic viscera,Mention the lobes involved in benign prostatic hypertrophy & prostatic cancer | Lecutre | AN48.2 | Describe & demonstrate the (position, features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and clinical aspects of) important male & female pelvic viscera | Practical, DOAP session | PY9.2 | Discuss & describe early and delayed puberty and outline adolescent clinical and psychological association. | small group discussio n |
| **Day-156** | PY9.3 | Describe male reproductive system: control of spermatogenesis & factors modifying it and outline its association with psychiatric illness | Lecture | BI11.7 /BI6.2 | Demonstrate the estimation of serum creatinine and creatinine clearance/ Discuss the Pyrimidine metabolism | Practical/tutor ial | AN48.2, 48.8 | Describe & demonstrate the (position, features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and clinical aspects of) important male & female pelvic viscera, Mention the structures palpable during vaginal & rectal examination | Lecutre |

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| PY 2.13/ PY10.11 | Describe steps for reticulocyte/Clinic al Examination of nervous system - higher functions **HI anatomy** | DOAP | PY9.3 | Describe the anatomy of male reproduc tive system and function s of testis | SDL | | | |
| AN48.5, 48.6 | Explain the anatomical basis of suprapubic cystostomy, Urinary obstruction in benign prostatic hypertrophy, Retroverted uterus, Prolapse uterus, Internal and external haemorrhoids, Anal fistula, Vasectomy,Tubal pregnancy & Tubal ligation, Describe the neurological basis of Automatic bladder **VI Surgery** | Practical, DOAP session | | Nucleoti des chemistr y | SDL | | | |

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| **Day-157** | BI6.2 | Describe and discuss the Purine metabolism | Lecture | AN52.2 | Describe & identify the microanatomical features of: Male Reproductive System: Testis, Epididymis,Vas deferens, Prostate & penis | Practical | PY9.3 | Discuss the endocrine functions of testis and abnoralities of male reproductive system | Lecture |
| **Day-158** | PY7.7 | Describe artificial kidney & dialysis (visit to dialysis unit in hospital) **VI Medicine** | | | | ECE (Phsyiology) | AN73.1 | Describe the structure of chromosomes with classification | Lecture |
| **Day-159** | AN73.2,73.2 | Describe technique of karyotyping with its applications, Describe the Lyon's hypothesis | Lecture | AN73.2, 73.2 | Describe technique of karyotyping with its applications, Describe the Lyon's hypothesis | Practical, Small Group Discussion | Module 1.4 | AETCOM: importance and techniques of effective communication. | SDL |

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| PY 2.13/ PY10.11 | Describe steps for platelet count/ sensory system **HI anatomy** | DOAP | C.M. 3.2 | Demonstrate the concepts of water conservation and rainwater harvesting | DOAP | | | |
| AN73.1 | Describe the structure of chromosomes with classification | Practical, Small Group Discussion | PY9.4 | Describe female reproductive system: functions of ovary and its control estrogen & progesterone | Small Group Discussion | | | |
| BI11.7 /BI6.2 | Demonstrate the estimation of serum creatinine and creatinine clearance/ Discuss the Pyrimidine metabolism | Practical /tutorial | | Sports/ Extarcurricular activities | | | | |

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| **Day-160** | | Thyroid and Parathyroid Adrenal hormones | Lecture | C.M. 3.1 | Describe the concept of Ventilation, Light & Radiation/ Describe the concept of Meteorological environment | Lecture | AN74.1, 74.2 | Describe the various modes of inheritance with examples, Draw pedigree charts for the various types of inheritance & give examples of diseases of each mode of inheritance **VI Medicine & Pediatrics** | Lecture |
| **Day-161** | AN74.3,74.4 | Describe multifactorial inheritance with examples, Describe the genetic basis & clinical features of Achondroplasia, Cystic Fibrosis, Vitamin D resistant rickets, Haemophilia, Duchene's muscular dystrophy & Sickle cell anaemia **VI Medicne, Pediatrics** | Lecture | AN73.2, 73.2 | Describe technique of karyotyping with its applications, Describe the Lyon's hypothesis | Small Group Teaching | PY9.4 | Describe female reproductive system: menstrual cycle - hormonal, uterine and ovarian changes | Lecture |
| **Day-162** | PY9.4 | Describe female reproductive system: menstrual cycle - hormonal, uterine and ovarian changes | Lecture | BI6.3 | Demonstrate the estimation of Uric Acid **HI Physiology** | Practical | AN75.1, 75.2 | Describe the structural and numerical chromosomal aberrations, Explain the terms mosaics and chimeras with example **VI Pediatrics** | Lecture |

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| AN52.2, 52.3 | Describe & identify the microanatomical features of: Urinary system: Female reproductive system: Ovary, Uterus, Uterine tube, Cervix, Placenta & Umbilical cord, | Practical | AN48.1, 48.7 | Describe & identify the muscles of Pelvic diaphragm, Mention the lobes involved in benign prostatic hypertrophy & prostatic cancer | SDL | | | |
| PY 2.13/ PY10.11 | Describe steps for platelet count/ sensory system | DOAP | PY9.4 | Describe the anatomy of female reproductive system | SDL | | | |
| AN74.1, 74.2 | Describe the various modes of inheritance with examples, Draw pedigree charts for the various types of inheritance & give examples of diseases of each mode of inheritance | Small Group Teaching | | sports & Extracurricular | | | | |

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| **Day-163** | PY9.5 | Describe and discuss the physiological effects of sex hormones | Small Group Discussion | Module 1.4 | sessions on improving communication | small group discussion | AN75.3, 75.4,75.5 | Describe the genetic basis & clinical features of Prader Willi syndrome Edward syndrome & Patau syndrome, Describe genetic basis of variation: polymorphism and mutation, Describe the principles of genetic counselling **VI Pediatrics** | Lecture |
| **Day-164** | AN27.1,27.2 | Describe the layers of scalp, its blood supply, its nerve supply and surgical importance, Describe emissary veins with its role in spread of infection from extracranial route to intracranial venous sinuses | Lecture | AN 74, 75, 76 | Patterns of Inheritance, Principle of Genetics, Chromosomal Aberrations & Clinical Genetics, ntroduction to embryology | Lecture | Module 1.4 | Closure session - Reflection by students | small group discussion |

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| AN75.1, 75.2, 75.3,75.4,75.5 | Describe the structural and numerical chromosomal aberrations, Explain the terms mosaics and chimeras with example, Describe the genetic basis & clinical features of Prader Willi syndrome Edward syndrome & Patau syndrome, Describe genetic basis of variation: polymorphism and mutation, Describe the principles of genetic counselling **VI Pediatrics** | Small Group Teaching | PY9.5 | Describe and discuss the physiological effects of sex hormones | Small Group Discussion | | | |
| BI6.3 | Describe the common disorders associated with nucleotide metabolism. **HI Physiology** | | | | ECE (Biochemistry) | | | |

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| **Day-165** | | Pancreatic, Gastrointestinal, Adrenal and sex hormones. | Lecture | PY9.6 | Enumertate the contraceptive methods for male & female. Discuss the advantages & disadvantages **VI Obs & Gyne & Community Medicine** | small group discussion | AN28.1 AN28.2, 28.3,28.8 | Describe & demonstrate muscles of facial expression and their nerve supply escribe sensory innervation of face, Describe & demonstrate origin /formation, course, branches /tributaries of facial vessels, Explain surgical importance of deep facial vein | Lecture | AN26.1, 26.2, 27.1,27.2 | Demonstrate anatomical position of skull, Identify and locate individualskull bones in skull,Describe the features of norma frontalis, verticalis, occipitalis, lateralis and basalis, Describe the layers of scalp, its blood supply, its nerve supply and surgical importance, Describe emissary veins with its role in spread of infection from extracranial route to intracranial | Small Group teaching , DOAP Session | AN73.2, 73.3 | Describe technique of karyotyping with its applications, Describe the Lyon's hypothesis | SDL | | | |
| **Day-166** | AN 74, 75, 76 | Patterns of Inheritance, Principle of Genetics, Chromosomal Aberrations & Clinical Genetics, ntroduction to embryology Classroom | | | | ECE (Anatomy | PY9.8 | Describe and discuss the physiology of pregnancy **VI Obs & Gyne** | Lecture | PY 2.12/ PY10.11 | Describe ESR/ MOTOR system **HI anatomy** | DOAP | PY9.8 | Describe and discuss the physiology of lactation | Small Group Discussion | | | |
| **Day-167** | PY9.8 | Describe and discuss the physiology of pregnancy& parturition &outline the psychology and psychiatry-disorders associated with it. | Lecture | BI11.11/ | Demonstrate estimation of calcium and phosphorous/ Hormone - General properties and Mechanism of Action. | Practical/ tutorial | AN28.4, 28.7 | Describe & demonstrate branches of facial nerve with distribution, Explain the anatomical basis of facial nerve palsy **VI Medicine** | Lecture | AN28.2, 28.3, 28.8 | Describe sensory innervation of face,Describe and demonstrate origin/ formation ,course, branches/tributaries of facial vessels, Explain surgical impotance of deep facial vein | Lecture | | Sports/ Extarcurricular activities | | | | |

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| **Day-168** | BI6.2 | Describe and discuss the Purine metabolism | Lecture | AN74.3, 74.4 | Describe multifactorial inheritance with examples, Describe the genetic basis & clinical features of Achondroplasia, Cystic Fibrosis, Vitamin D resistant rickets, Haemophilia, Duchene's muscular dystrophy & Sickle cell anaemia **VI Medicine, Pediatrics** | Small Group Teaching | PY9.4 | Describe female reproductive system: menstrual cycle - hormonal, uterine and ovarian changes | Lecture |
| **Day-169** | PY9.8 | Visit to labour ward | | | | ECE (Physiology) | AN28.5 | Describe cervical lymph nodes and lymphatic drainage of head, face and neck | Lecture |

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| PY 2.13/ PY10.11 | Describe steps for platelet count/ sensory system | DOAP | C.M. 3.3 | Describe the aetiology and basis of water borne diseases /jaundice/hepatitis/ diarrheal diseases | Small Group Discussion | | | |
| AN26.2 | Describe the features of normal frontalis, verticalis, occipitalis, lateralis and basalis | DOAP Session | PY9.9 | Interpret a normal semen analysis report including (a) sperm count, (b) sperm morphology and (c) sperm motility, as per WHO guidelines and discuss the results | Small Group Discussion | | | |

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| **Day-170** | AN28.6 | Identify superficial muscles of face, their nerve supply and actions | Lecture | AN28.2, 28.3,28. 8 | Describe sensory innervation of face, Describe & demonstrate origin /formation, course, branches /tributaries of facial vessels, Explain surgical importance of deep facial vein | Practical, Small Group Discussion` | PY9.10 | Discuss the physiological basis of various pregnancy tests **VI Obs & Gyne** | Lecture | | BI11.11/ | Demonstrate estimation of calcium and phosphorous/ Hormone - General properties and Mechanism of Action. | Practical / tutorial | | Sports/ Extarcurr icular activities | | | | |
| **Day-171** | AN28.4,28.7 | Explain the anatomical basis of facial nerve palsy Classroom | | | | ECE (Anatomy) | PY9.12 | Discuss the common causes of infertility in a couple and role of IVF in managing a case of infertility. **VI Obs & Gyne** | Small Group discussio n | | PY 2.12/ PY10.11 | Describe ESR/ MOTOR system **HI Anatomy** | DOAP | PY9.11 | Discuss the hormona l changes and their effects during perimen opause and menopa use **VI Obs & Gyne** | Small Group Discussio n | | | |
| | **competency no.** | **9 AM -10 AM** | **mode** | **compete ncy no.** | **10 AM -12 Noon** | **mode** | **compete ncy no.** | **12 Noon -1 PM** | **mode** | **1 PM-2 PM** | **compete ncy no.** | **2 PM -4 PM** | **mode** | **compete ncy no.** | **4 PM-5 PM** | **mode** | | | |

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| **Day-172** | PY8.6 | Describe & differentiate the mechanism of action of steroid, protein and amine hormones | Lecture | BI11.12 / BI6.14 | Demonstrate the estimation of serum bilirubin/ Discuss the tests that are commonly done in clinical practice to assess the functions of these organs (kidney, liver, Stomach). **VI medicine** | Practical/ Gd | AN29.1, 29.3 | Describe & demonstrate attachments, nerve supply, relations and actions of sternocleidomastoid, Explain anatomical basis of wry neck **VI surgery** | Lecture | | AN26.2 | Describe the features of norma frontalis, verticalis, occipitalis, lateralis and basalis | DOAP Session | | Sports/ Extarcurricular activities | | | | |
| **Day-173** | BI6.2 | Describe and discuss the Pyrimidine metabolism | Lecture | AN28.9, 28.10 | Describe and demonstrate the parts borders, surfaces, contents, relations and nerve supply of parotid gland with course of its duct and surgical importance, Explain the anatomical basis of frey's syndrome. | Lecture | PY8.6 | Describe & differentiate the mechanism of action of steroid, protein and amine hormones | Lecture | | PY 2.12/ PY10.11 | INTERPRET ESR/ MOTOR system **HI anatomy** | DOAP | C.M. 3.1 | Demonstrate the funtioning and use of Rain gauze | DOAP | | | |

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| **Day-174** | PY8.6 | Describe & differentiate the mechanism of action of steroid, protein and amine hormones | Lecture | PY 2.12/ PY10.11 | INTERPRET ESR/ MOTOR system **HI anatomy** | DOAP | AN28.9, 28.10 | Describe and demonstrate the parts borders, surfaces, contents, relations and nerve supply of parotid gland with course of its duct and surgical importance, Explain the anatomical basis of frey's syndrome. | Lecture |
| **Day-175** | AN29.2,29.4 | Explain anatomical basis of Erb's & Klumpke's palsy, Describe & demonstrate attachments of 1) inferior belly of omohyoid, 2)scalenus anterior, 3) scalenus medius & 4) levator scapulae **VI Surgery** | Lecture | AN28.9, 28.10 | Describe & demonstrate the parts, borders, surfaces, contents, relations and nerve supply of parotid gland with course of its duct and surgical importance, Explain the anatomical basis of Frey's syndrome **VI Surgery** | Practical, Small Group Discussion` | PY8.2 | Describe the synthesis, secretion, transport, physiological actions of anterior pituitary gland | Lecture |

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| AN26.2 | Describe the features of norma frontalis, verticalis, occipitalis, lateralis and basalis | DOAP Session | PY9.12 | Discuss the common causes of infertility in a couple and role of IVF in managin g a case of infertility . **VI Obs & Gyne** | SDL | | | |
| BI11.12 / BI6.14 | Demonstrate the estimation of serum bilirubin/ Discuss the tests that are commonly done in clinical practice to assess the functions of these organs (kidney, liver, Stomach). **VI Patho, medicine HI Anatomy physiology** | Practical / Gd | | Sports/ Extarcurr icular activities | | | | |

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| **Day-176** | BI6.13 | Describe the functions of the kidney, and the tests that are commonly done in clinical practice to assess the functions of kidney. **VI Patho, medicine HI Anatomy physiology** | Lecture | | Physiology FA & feedback | | AN30.3, 30.4 | Describe & identify dural folds & dural venous sinuses, Describe clinical importance of dural venous sinuses | Lecture |
| **Day-177** | AN30.3,30.4 | Describe & identify dural folds & dural venous sinuses, Describe clinical importance of dural venous sinuses | Lecture | AN26.2, 26.3 | Describe the features of norma frontalis, verticalis, occipitalis, lateralis and basalis, Describe cranial cavity, its subdivisions, foramina and structures passing through them | DOAP Session | PY8.2 | Describe the regulation and hypo & hypersecretion of anterior pituitary gland | Small Group discussion |

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| AN26.2, 26.3 | Describe the features of norma frontalis, verticalis, occipitalis, lateralis and basalis, Describe cranial cavity, its subdivisions, foramina and structures passing through them | DOAP Session | AN26.2 | Describe the features of norma frontalis, verticalis, occipitalis, lateralis and basalis, | SDL | | | |
| PY 2.12/ PY10.11 | INTERPRET ESR/ MOTOR system **HI anatomy** | DOAP | | Describe the synthesis, secretion, transport, physiological actions of posterior pituitary gland | SDL | | | |

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| **Day-178** | PY8.2 | Describe the synthesis, secretion, transport, physiological actions of thyroid hormones | Lecture | BI11.8/ BI6.14 | Demonstrate estimation of serum proteins/ Discuss the tests that are commonly done in clinical practice to assess the functions of these organs (thyroid and adrenal glands). **VI Patho, medicine HI Anatomy physiology** | Practical/ GD | AN30.5 | Explain effect of pituitary tumours on visual pathway **VI Ophthalmology** | Lecture |
| **Day-179** | BI6.4 | Discuss the laboratory results of analytes associated with gout & Lesch Nyhan syndrome. **VI Medicine** | Small group learning | AN26.4 | Describe morphological features of mandible | DOAP Session | PY8.2 | Describe the regulation & hypo & hypersecretion of thyroid hormones | Group discussio n |
| **Day-180** | PY8.2 | Describe the synthesis, secretion, transport, physiological actions of adrenal cortex (glucocorticoid) | Lecture | PY 2.12/ PY10.11 | Describe osmotic fragility/ Reflexes **HI anatomy** | DOAP | AN31.1 | Describe & identify extra ocular muscles of eyeball | Lecture |

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| AN29.1, 29.3 | Describe & demonstrate attachments, nerve supply, relations and actions of sternocleidomastoid, Explain anatomical basis of wry neck | Practical | | Pyrimidine metabolism | SDL | | | |
| PY 2.12/ PY10.11 | Describe osmotic fragility/ Reflexes **HI anatomy** | DOAP | C.M. 3.1 | Demonstrate the funtioning and use of dry and wet bulb thermometer and Barometer | DOAP | | | |
| AN30.3, 30.4 | Describe & identify dural folds & dural venous sinuses, Describe clinical importance of dural venous sinuses | Practical | PY8.2 | Describe the regulation & hypo & hypersecretion of adrenal cortex (glucocorticoid) | Small Group Discussio n | | | |

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| **Day-181** | AN31.2,31.3 | Describe & demonstrate nerves and vessels in the orbit, Describe anatomical basis of Horner's syndrome | Lecture | AN30.3, 30.4 | Describe & identify dural folds & dural venous sinuses, Describe clinical importance of dural venous sinuses | Practical | PY8.2 | Describe the synthesis, secretion, transport, physiological actions of adrenal cortex (mineralocorticoid) | Group discussion |
| **Day-182** | BI6.14 | Describe the functions of the liver, and the tests that are commonly done in clinical practice to assess the functions of liver. | Lecture | | Biochemistry FA & feedback | | AN31.4, 31.5 | Enumerate components of lacrimal apparatus, Explain the anatomical basis of oculomotor, trochlear and abducent nerve palsies along with strabismus **VI Ophthalmology** | Lecture |

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| BI11.8/ BI6.14 | Demonstrate estimation of serum proteins/ Discuss the tests that are commonly done in clinical practice to assess the functions of these organs (thyroid and adrenal glands). **VI Patho, medicine HI Anatomy physiology** | Practical / GD | | Sports/ Extarcurricular activities | | | | |
| AN26.5, 26.6, 26.7 | Describe features of typical and atypical cervical vertebrae (atlas andaxis), Explain the concept of bones that ossify in membrane, Describe the features of the 7th cervical vertebra | DOAP session | AN26.3, 26.4 | Describe cranial cavity, its subdivisions, foramina and structures passing through them, Describe morphological features of mandible | SDL | | | |

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| **Day-183** | AN32.1,32.2 | Describe boundaries and subdivisions of anterior triangle, Describe & demonstrate boundaries and contents of muscular, carotid, digastric and submental triangle | Lecture | AN31.1 | Describe & identify extra ocular muscles of eyeball | Practical | PY8.2 | Describe the synthesis, secretion, transport, physiological actions of adrenal medulla | Lecture |
| **Day-184** | PY8.2 | Describe the regulation & hypo & hypersecretion of adrenal medulla | Small group Discussion | BI11.8, BI11.22 | Demonstrate estimation of serum albumin and A:G ratio | Practical | AN33.1 | Describe & demonstrate extent, boundaries and contents of temporal and infratemporal fossae | Lecture |
| **Day-185** | BI7.1 | Describe the structure and functions of DNA and RNA and outline the cell cycle. | Lecture | AN31.2, 31.3 | Describe & demonstrate nerves and vessels in the orbit, Describe anatomical basis of Horner's syndrome **VI Surgery** | Practical | PY 8.1 | Describe the physiology of bone and calcium metabolism | Lecture |

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| PY 2.12/ PY10.11 | Interpret osmotic fragility/ Reflexes | DOAP | PY 8.2 | Describe the synthesis, secretion, transport, physiological actions of adrenal sex steroids | Small Group Discussion | | | |
| AN31.2, 31.3 | Describe & demonstrate nerves and vessels in the orbit, Describe anatomical basis of Horner's syndrome **VI Surgery** | Practical | | Revision class for Nucleotides metabolism | Lecture | | | |
| PY 2.12/ PY10.11 | Interpret osmotic fragility/ Reflexes **HI anatomy** | DOAP | C.M. 3.2 | Discuss the water purification processes on Small Scale | Small Group Discussion | | | |

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| **Day-186** | PY 8.1, 8.2 | Describe the physiology of bone and calcium metabolism including Parathyroid, Calcitonin | Lecture | Module 1.4 | AETCOM: The cadaver as our first teacher - closing session - reflection by students | large group discussion | AN33.2, 33.4 | Describe & demonstrate attachments, direction of fibres, nerve supply and actions of muscles of mastication, Explain the clinical significance of pterygoid venous plexus | Lecture |
| **Day-187** | AN33.3,33.5 | Describe & demonstrate articulating surface, type & movements of temporomandibular joint, Describe the features of dislocation of temporomandibular joint | Lecture | AN33.1 | Describe & demonstrate extent, boundaries and contents of temporal and infratemporal fossae | Practical, DOAP Session | PY 8.1, 8.2 | Describe the physiology of bone and calcium metabolism including Parathyroid, Calcitonin | Group discussion |

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| AN32.1, 32.2 | Describe boundaries and subdivisions of anterior triangle, Describe & demonstrate boundaries and contents of muscular, carotid, digastric and submental triangle | Practical | PY 8.1, 8.2 | Describe the physiology of bone and calcium metabolism including Parathyroid, Calcitonin | Lecture | | | |
| BI6.4 | Discuss the laboratory results of analytes associated with gout & Lesch Nyhan syndrome. | | | | ECE (Biochemistry) | | | |

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| **Day-188** | BI6.14 | Describe the functions of the thyroid glands and adrenal glands, and the tests that are commonly done in clinical practice to assess the functions of thyroid and adrenal glands. | Lecture | PY 8.1, 8.2 | Describe the physiology of bone and calcium metabolism including Parathyroid, Calcitonin | Group discussion | AN34.1, 34.2 | Describe & demonstrate the morphology, relations and nerve supply of submandibular salivary gland & submandibular ganglion, Describe the basis of formation of submandibular stones **VI Surgery** | Lecture |
| **Day-189** | AN35.1,35.10 | Describe the parts, extent, attachments, modifications of deep cervical fascia, Describe the fascial spaces of neck | Lecture | AN33.2, 33.4 | Describe & demonstrate attachments, direction of fibres, nerve supply and actions of muscles of mastication, Explain the clinical significance of pterygoid venous plexus **VI Surgery** | Practical, Small Group Discussion` | PY8.2 | Describe the synthesis, secretion, transport, physiological actions pancreas (Insulin) | Lecture |

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| AN 27, 28, 29, 30 | Scalp, Face & parotid region, Posterior triangle of neck, Cranial cavity | Lecture | AN26.5, 26.7 | Describe features of typical and atypical cervical vertebrae (atlas andaxis), Describe the features of the 7th cervical vertebra | SDL | | | |
| PY 2.11/ PY10.11 | Revision DLC/ Reflexes **HI anatomy** | DOAP | PY8.2 | Describe the synthesis, secretion, transport, physiological actions, regulation pancreas (Glucagon) | SDL | | | |

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| **Day-190** | PY8.2 | Describe the physiological actions & regulation of pancreas (Insulin) | Lecture | BI11.13 / BI7.2 | Demonstrate the estimation of SGOT/ SGPT/ Discuss the processes involved in prokaryotic and eukaryotic replication mechanisms and DNA Repair mechanisms. | Practical/ Tutorial | AN35.2, 35.8 | Describe & demonstrate location, parts, borders, surfaces, relations & blood supply of thyroid gland, Describe the anatomically relevant clinical features of Thyroid swellings **VI Surgery** | Lecture |
| **Day-191** | BI7.1 | Chromatin, Chromosomes, Genes, genetic code and Mutations. | Lecture | AN34.1, 34.2 | Describe & demonstrate the morphology, relations and nerve supply of submandibular salivary gland & submandibular ganglion, Describe the basis of formation of submandibular stones **VI Surgery** | Practical, Small Group Discussion` | PY8.2 | Describe the effect of altered (hypo and hyper) secretion of pancreas | Small Group discussion |

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| AN33.3, 33.5 | Describe & demonstrate articulating surface, type & movements of temporomandibular joint, Describe the features of dislocation of temporomandibular joint | Practical, Small Group Discussion` | | Liver and Renal function test | SDL | | | |
| PY 2.11/ PY10.11 | Revision DLC/ Reflexes | DOAP | C.M. 3.2 | Discuss the water purification processes on Large Scale | Small Group Discussion | | | |

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| **Day-192** | | Diabetes Mellitus & complications (Hospital visit - Medicine) | | | ECE (Physiology) | AN35.3, 35.4 | Demonstrate & describe the origin, parts, course & branches subclavian artery, Describe & demonstrate origin, course, relations, tributaries and termination of internal jugular & brachiocephalic veins | Lecture |
| **Day-193** | AN35.5 | Describe and demonstrate extent, drainage & applied anatomy of cervical lymph nodes **VI Surgery** | Lecture | AN35.2, 35.8 | Describe & demonstrate location, parts, borders, surfaces, relations & blood supply of thyroid gland, Describe the anatomically relevant clinical features of Thyroid swellings **VI Surgery** | Practical, Small Group Discussion` | PY8.4 | Describe function tests: Thyroid gland; Adrenal cortex, Adrenal medulla and pancreas **HI Biochemistry (Sharing)** | Lecture |

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| AN35.1, 35.10 | Describe the parts, extent, attachments, modifications of deep cervical fascia, Describe the fascial spaces of neck **VI Surgery** | Small Group Discussion` | PY8.4 | Describe function tests: Thyroid gland; Adrenal cortex, Adrenal medulla and pancreas | Small Group discussion | | | |
| BI11.13 / BI7.2 | Demonstrate the estimation of SGOT/ SGPT/ Discuss the processes involved in prokaryotic and eukaryotic replication mechanisms and DNA Repair mechanisms. | Practical / Tutorial | | Sports/ Extarcurricular activities | | | | |

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| **Day-194** | BI6.15 | Describe the abnormalities of kidney, liver, thyroid and adrenal glands. **VI Patho, medicine HI Anatomy physiology** | Small Group learning | | Anatomy FA & feedback | | AN35.6, 35.9 | Describe and demonstrate the extent, formation, relation & branches of cervical sympathetic chain , Describe the clinical features of compression of subclavian artery and lower trunk of brachial plexus by cervical rib | Lecture |
| **Day-195** | AN35.7 | Describe the course and branches of IX, X, XI & XII nerve in the neck | Lecture | AN35.3, 35.4 | Demonstrate & describe the origin, parts, course & branches subclavian artery, Describe & demonstrate origin, course, relations, tributaries and termination of internal jugular & brachiocephalic veins | Practical, Small Group Discussion` | PY8.4 | Describe function tests: Thyroid gland; Adrenal cortex, Adrenal medulla and pancreas **HI Biochemistry (Sharing)** | Lecture |

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| AN35.2, 35.8 | Describe & demonstrate location, parts, borders, surfaces, relations & blood supply of thyroid gland, Describe the anatomically relevant clinical features of Thyroid swellings | Practical, Small Group Discussion` | AN27.1, 27.2 | Describe the layers of scalp, its blood supply, its nerve supply and surgical importance, Describe emissary veins with its role in spread of infection from extracranial route to intracranial | SDL | | | |
| PY 2.11/ PY10.11, 10.20 | Revision DLC/ Cranial Nerves 1, 2, Tests for smell & vision **HI anatomy** | DOAP | PY8.3 | Describe the physiology of Thymus & Pineal Gland | SDL | | | |

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| **Day-196** | PY8.5 | Describe the metabolic and endocrine consequences of obesity & metabolic syndrome. Outline the psychiatry component pertaining to metabolic syndrome. | Lecture | BI11.14 / BI7.2 | Demonstrate the estimation of alkaline phosphatase/ Discuss the processes involved in transcription mechanisms. | Practical/ tutorial | AN36.1, 36.4 | Describe the 1) morphology, relations, blood supply and applied anatomy of palatine tonsil 2) composition of soft palate, Describe the anatomical basis of tonsillitis, tonsillectomy, adenoids and peri-tonsillar abscess **VI ENT** | Lecture | | AN35.5 | Describe and demonstrate extent, drainage & applied anatomy of cervical lymph nodes **VI Surgery** | DOAP Session, Small Group Discussio n` | | Sports/ Extarcurr icular activities | | | | |
| **Day-197** | BI6.15 | Describe the abnormalities of kidney, liver, thyroid and adrenal glands. **VI Patho, medicine HI Anatomy physiology** | Small Group learning | AN35.5 | Describe and demonstrate extent, drainage & applied anatomy of cervical lymph nodes **VI Surgery** | DOAP Session, Small Group Discussion` | PY8.5 | Describe the metabolic and endocrine consequences of Stress response. | Lecture | | PY 2.11/ PY10.11, 10.20 | Revision DLC/ Cranial Nerves 1, 2, Tests for smell & vision **HI anatomy** | DOAP | C.M. 3.2 | Discuss the water purificati on processe s on Large Scale | Small Group Discussio n | | | |
| | **competency no.** | **9 AM -10 AM** | **mode** | **compete ncy no.** | **10 AM -12 Noon** | **mode** | **compete ncy no.** | **12 Noon -1 PM** | **mode** | **1 PM-2 PM** | **compete ncy no.** | **2 PM -4 PM** | **mode** | **compete ncy no.** | **4 PM-5 PM** | **mode** | | | |

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| **Day-198** | | Describe the metabolic and endocrine consequences of obesity & metabolic syndrome. Outline the psychiatry component pertaining to metabolic syndrome. | Lecture | PY 2.11/ PY10.11, 10.20 | Revision Hb/ Cranial Nerves 1, 2, Tests for smell & vision | DOAP | AN36.2, 36.5 | Describe the components and functions of Waldeyer's lymphatic ring, Describe the clinical significance of Killian's dehiscence **VI ENT** | Lecture | | AN35.6, 35.9 | Describe and demonstrate the extent, formation, relation & branches of cervical sympathetic chain , Describe the clinical features of compression of subclavian artery and lower trunk of brachial plexus by cervical rib | DOAP Session | PY8.5 | Describe the metabolic and endocrine consequences of obesity & metabolic syndrome. Outline the psychiatry component pertaining to metabolic syndrome. | Group discussion | | | |
| **Day-199** | AN36.1,36.4 | Describe the anatomical basis of tonsillitis, tonsillectomy, adenoids and peri-tonsillar abscess Visit to Hospital - ENT | | | | ECE (Anatomy) | PY10.2 | Describe and discuss the functions and properties of synapse | Lecture | | PY 2.11/ PY10.11, 10.20 | Revision Hb/ Cranial Nerves 1, 2, Tests for smell & vision **HI anatomy** | DOAP | PY10.1 | Describe and discuss the organization of nervous system | SDL | | | |
| **Day-200** | PY10.2 | Describe and discuss the functions and properties of receptors | Lecture | BI11.15 / BI7.2 | Describe & discuss the composition of CSF/ Discuss the processes involved in translation mechanisms. | GD/ Tutorial | AN39.1, 39.2 | Describe & demonstrate the morphology, nerve supply, embryological basis of nerve supply, blood supply, lymphatic drainage and actions of extrinsic and intrinsic muscles of tongue, Explain the anatomical basis of hypoglossal nerve palsy | Lecture | | AN36.1, 36.4 | Describe the 1) morphology, relations, blood supply and applied anatomy of palatine tonsil 2) composition of soft palate, Describe the anatomical basis of tonsillitis, tonsillectomy, adenoids and peri-tonsillar abscess **VI ENT** | DOAP Session, Small Group Discussion` | | Chromatin, Chromosomes, Genes, genetic code and Mutations. | SDL | | | |

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| **Day-201** | BI7.2 | Describe the processes involved in DNA Repair mechanisms. | Lecture | AN38.1,.2,.3 | Describe the morphology identify the structures of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of the larynx, Describe the anatomical aspects of layringitis, Describe anatomical basis of recurrent laryngeal nerve in jury | Lecture | PY10.2 | Describe and discuss the functions and properties of reflex | Lecture |
| **Day-202** | | Describe and discuss stretch reflex | Lecture | PY 2.11/ PY10.11, 10.20 | Revision Blood Group/ Cranial Nerves 1, 2, Tests for smell & vision | DOAP | AN40.1 | Describe & identify the parts, blood supply and nerve supply of external | Lecture |

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| PY 2.11/ PY10.11, 10.20 | Revision Blood Group/ Cranial Nerves 1, 2, Tests for smell & vision **HI anatomy** | DOAP | C.M. 3.2 | Discuss the surveillance of drinking water quality | SDL | | | |
| AN37.2, 37.3 | Describe location and functional anatomy of paranasal sinuses, Describe anatomical basis of sinusitis & maxillary sinus tumours **VI ENT** | Small Group Discussion` | | Describe and discuss stretch reflex | Group discussion | | | |

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| **Day-203** | AN40.2,40.4,40.5 | Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube, Explain anatomical basis of otitis externa and otitis media, Explain anatomical basis of myringotomy<br>**VI ENT** | Lecture | AN36.3, 38.1,38.2,38.3 | Describe the boundaries and clinical significance of pyriform fossa, Describe the morphology, identify structure of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of the larynx,Describe the anatomical aspects of laryngitis, Describe anatomical basis of recurrent laryngeal nerve injury<br>**VI ENT** | Practical, Small Group Discussion` | PY10.3 | Describe and discuss somatic sensations | Lecture |
| **Day-204** | BI7.2 | Describe the processes involved in transcription mechanisms. | Lecture | | Physiology FA & feedback | | AN40.3 | Describe the features of internal ear<br>**VI ENT** | Lecture |

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| BI11.15 / BI7.2 | Describe & discuss the composition of CSF/ Discuss the processes involved in translation mechanisms. | GD/ Tutorial | | Sports/ Extarcurricular activities | | | | |
| AN43.2 | Identify, describe and draw the microanatomy of pituitary gland, thyroid, parathyroid gland, tongue, salivary glands, tonsil, epiglottis, cornea, retina | Practical | AN28.9, 28.10 | Describe & demonstrate the parts, borders, surfaces, contents, relations and nerve supply of parotid gland with course of its duct and surgical importance, Explain the anatomical basis of Frey's | SDL | | | |

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| **Day-205** | AN41.1,41.2,41.3 | Describe & demonstrate parts and layers of eyeball, Describe the anatomical aspects of cataract, glaucoma & central retinal artery occlusion, Describe the position, nerve supply and actions of intraocular muscles **VI Ophthalmology** | Lecture | AN39.1, 39.2 | Describe & demonstrate the morphology, nerve supply, embryological basis of nerve supply, blood supply, lymphatic drainage and actions of extrinsic and intrinsic muscles of tongue, Explain the anatomical basis of hypoglossal nerve palsy | Practical, Small Group Discussion` | PY10.3 | Describe and discuss sensory tracts | Lecture |
| **Day-206** | PY10.3 | Describe and discuss sensory tracts | Lecture | BI11.16, BI11.19 | Outline the basic principles of Paper chromatography of amino acid, TLC and their application | Demo | AN42.1, 43.1 | Describe the contents of the vertebral canal, Describe & demonstrate the movements with muscles producing the movements of atlantooccipital joint & atlantoaxial joint | Lecture |

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| PY 2.11/ PY10.11, 10.20 | Revision BT-CT/ Cranial Nerves 1, 2, Tests for smell & vision | DOAP | PY10.2 | describe & discuss the functions of synapse, reflex & receptors | small group discussion | | | |
| AN40.1 | Describe & identify the parts, blood supply and nerve supply of external ear. **VI ENT** | Practical, Small Group Discussion` | | Sports/ Extarcurricular activities | | | | |

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| **Day-207** | BI7.2 | Describe the processes involved in transcription mechanisms. **VI obs gyne, surgery patho** | Lecture | AN43.2 | Identify, describe and draw the microanatomy of pituitary gland, thyroid, parathyroid gland, tongue, salivary glands, tonsil, epiglottis, cornea, retina | Practical | PY10.4 | Describe & discuss the motor tracts | Lecture |
| **Day-208** | PY10.4 | Describe & discuss the motor tracts lesion | Small Group learning | PY 2.11/ PY10.11 | Revision Arneth/ Cranial Nerves 3,4,6 | DOAP | AN42.2, 42.3 | Describe & demonstrate the boundaries and contents of Suboccipital riangle, Describe the position, direction of fibres, relations, nerve supply, actions of semispinalis capitis and splenius capitis | Lecture |

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| PY 2.11/ PY10.11 | Revision BT-CT/ Cranial Nerves 3,4,6 | DOAP | C.M. 3.2 | Demonstrate the Horrocks Apparatus | DOAP | | | |
| AN40.2, 40.4,40.5 | Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube, Explain anatomical basis of otitis externa and otitis media, Explain anatomical basis of myringotomy | Practical, Small Group Discussion, DOAP Session | PY10.4 | Describe & discuss the motor tracts lesion | Small Group discussion | | | |

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| **Day-209** | AN43.4 | Describe the development and developmental basis of congenital anomalies of face, palate, tongue, branchial apparatus, pituitary gland, thyroid gland & eye | Lecture | AN43.5 | Demonstrate- 1) Testing of muscles of facial expression, extraocular muscles, muscles of mastication, 2) Palpation of carotid arteries, facial artery, superficial temporal artery, 3) Location of internal and external jugular veins, 4) Location of hyoid bone, thyroid cartilage and cricoid cartilage with their vertebral levels **VI Surgery** | Practical | PY10.4 | Describe & discuss the mechanism of maintenance of tone | Lecture |
| **Day-210** | BI7.2 | Describe the processes involved in translation mechanisms. **VI Obs gyne, surgery pathology** | Lecture | C.M. 3.4, C.M. 3.5 | Describe the concept of human excreta disposal, Describe the standards of housing and the effect of housing on health | Lecture | AN43.4 | Describe the development and developmental basis of congenital anomalies of face, palate, tongue, branchial apparatus, pituitary gland, thyroid gland & eye | Lecture |

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| BI10.1 & BI10.2 | Discuss the cancer. Also focus on p53 & apoptosis. Tumor markers and the biochemical basis of cancer therapy. | | | | ECE (Biochemistry) | | | | |
| AN43.3 | Identify, describe and draw microanatomy of olfactory epithelium, eyelid, lip, sclero-corneal junction, optic nerve, cochlea- organ of corti, pineal gland | Practical | AN30.2, 30.3 | Describe & identify major foramena with structures passing through them, Describe & identify dural folds & dural venous sinuses, Describe clinical importance of dural venous sinuses | SDL | | | | |

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| **Day-211** | PY10.4 | Describe & discuss the mechanism of body vestibular apparatus & equilibrium | Lecture | BI11.16, BI11.19/ BI6.10 | Outline the basic principles of Protein electrophoresis, PAGE and their application/ Enumerate and describe the disorders associated with mineral metabolism. **VI Medicine** | Demo/ Small Group Discussion | AN43.4 | Describe the development and developmental basis of congenital anomalies of face, palate, tongue, branchial apparatus, pituitary gland, thyroid gland & eye | Lecture | AN43.6 | Demonstrate surface projection of- Thyroid gland, Parotid gland and duct, Pterion, Common carotid artery, Internal jugular vein, Subclavian vein, External jugular vein, Facial artery in the face & accessory nerve **VI Surgery** | Practical | | Sports/ Extarcurricular activities | | | | |
| **Day-212** | BI7.2 | Describe the processes involved in translation mechanisms. | Lecture | AN 36, 37, 38, 39, 40 | Mouth, Pharynx & Palate, Cavity of Nose, Larynx, Tongue, Organs of hearing and equilibrium | Practical | PY10.4 | Describe & discuss the mechanism of body vestibular apparatus & equilibrium | Lecture | PY 2.11/ PY10.11 | Revision Arneth/ Cranial Nerves 5,7 | DOAP | C.M. 3.2 | Demonstrate the OT and OTA test | DOAP | | | |
| **Day-213** | PY10.5 | Describe and discuss structure and functions of reticular activating system | Lecture | PY 2.11/ PY10.11 | Revision Arneth/ Cranial Nerves 5,7 | DOAP | AN56.1 | Describe & identify various layers of meninges with its extent & modifications **VI medicine** | Lecture | AN56.1 | Describe & identify various layers of meninges with its extent & modifications | DOAP Session | PY10.4 | Describe & discuss the mechanism of body vestibular apparatus & equilibrium | Group discussion | | | |

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| **Day-214** | AN56.2 | Describe circulation of CSF with its applied anatomy **VI Physiology** | Lecture | AN56.2 | Describe circulation of CSF with its applied anatomy | Smallgroup discussion | PY10.5 | Describe and discuss structure and functions of autonomic nervous system (ANS) | Lecture |
| **Day-215** | BI7.3 | Describe gene mutations and basic mechanism of regulation of gene expression. **VI pediatrics** | Lecture | | Anatomy FA & feedback | | AN57.1, 57.2 | Identify external features of spinal cord, Describe extent of spinal cord in child & adult with its clinical implication | Lecture |
| **Day-216** | AN57.3 | Draw & label transverse section of spinal cord at mid-cervical & midthoraciclevel | Lecture | AN57.1, 57.2 | Identify external features of spinal cord, Describe extent of spinal cord in child & adult with its clinical implication | Smallgroup discussion | PY10.5 | Describe and discuss structure and functions of autonomic nervous system (ANS) | Lecture |

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| BI11.16, BI11.19/ BI6.10 | Outline the basic principles of Protein electrophoresis, PAGE and their application/ Enumerate and describe the disorders associated with mineral metabolism. **VI medicne** | Demo/ Small Group discussion | | Sports/ Extarcurricular activities | | | | |
| AN57.1, 57.2 | Identify external features of spinal cord, Describe extent of spinal cord in child & adult with its clinical implication | DOAP Session | AN35.1, | Describe the parts, extent, attachments, modifications of deep cervical fascial | SDL | | | |
| PY 2.11/ PY10.11 | Revision Arneth/ Cranial Nerves 5,7 **HI anatomy** | DOAP | PY10.4 | Describe & discuss the motor tracts | Group discussion & Revision | | | |

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| **Day-217** | PY10.6 | Describe and discuss Spinal cord | Lecture | BI11.18 / BI8.3 | Discuss the principles of spectrophotometry/ Provide dietary advice for optimal health in childhood and adult, in disease conditions like diabetes mellitus, coronary artery disease and in pregnancy. **VI medicine** | Demo/ tutorial | AN57.4 | Enumerate ascending & descending tracts at mid thoracic level of spinal cord **VI Medicine** **HI Physiology** | Lecture | AN57.3 | Draw & label transverse section of spinal cord at mid-cervical & midthoraciclevel | Smallgroup discussion | | Gene expression | SDL | | | |
| **Day-218** | BI7.3 | Describe the basic mechanism of regulation of gene expression. **HI pediatrics** | Lecture | AN57.4 | Enumerate ascending & descending tracts at mid thoracic level of spinal cord **VI Medicine** **HI Physiology** | Smallgroup teaching | PY10.6 | Describe and discuss functions of Spinal cord | GD | PY 2.11/ PY10.11 | Revision RBC/ Cranial Nerves 5,7 | DOAP | C.M. 3.1 | Assessment | | | | |
| **Day-219** | PY10.6 | Describe and discuss Spinal cord lesion & sensory disturbances | Group discussion | PY 2.11/ PY10.11, 10.20 | Revision RBC/ Cranial Nerves 8 **HI anatomy** | DOAP | AN57.5 | Describe anatomical basis of syringomyelia | Lecture | AN57.5 | Describe anatomical basis of syringomyelia **VI Medicine** **HI Physiology** | Smallgroup discussion | PY10.6 | Describe and discuss Spinal cord lesion & sensory disturbances | Small Group Discussion | | | |

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| **Day-220** | AN58.1,58.2 | Identify external features of medulla oblongata, Describe transverse section of medulla oblongata at the level of 1) pyramidal decussation, 2) sensory decussation 3) ION | Lecture | AN58.1, 58.2 | Identify external features of medulla oblongata, Describe transverse section of medulla oblongata at the level of 1) pyramidal decussation, 2) sensory decussation 3) ION | Practical, DOAP Session | PY10.7 | Describe and discuss functions of cerebral cortex **VI Psychiatry** **HI Anatomy** | Lecture | | BI11.18 / BI8.3 | Discuss the principles of spectrophotometry/ Provide dietary advice for optimal health in childhood and adult, in disease conditions like diabetes mellitus, coronary artery disease and in pregnancy. **VI medicine** | Demo/ tutorial | | Sports/ Extarcurricular activities | | | | |
| | **competency no.** | **9 AM -10 AM** | **mode** | **competency no.** | **10 AM -12 Noon** | **mode** | **competency no.** | **12 Noon -1 PM** | **mode** | **1 PM-2 PM** | **competency no.** | **2 PM -4 PM** | **mode** | **competency no.** | **4 PM-5 PM** | **mode** | | | |
| **Day-221** | BI7.4 | Describe the basic mechanism of regulation of gene expression. **HI pediatrics** | Lecture | PY10.6 | Describe and discuss Spinal cord lesion & sensory disturbances | Group discussion | AN58.3, 58.4 | Enumerate cranial nerve nuclei in medulla oblongata with their functional group, Describe anatomical basis & effects of medial & lateral medullary syndrome **HI Physiology** | Lecture | | AN58.3, 58.4 | Enumerate cranial nerve nuclei in medulla oblongata with their functional group, Describe anatomical basis & effects of medial & lateral medullary syndrome **VI Medicine** **HI Physiology** | Smallgroup teaching | AN35.2 | Describe & demonstrate location, parts, borders, surfaces, relations & blood supply of thyroid gland, | SDL | | | |

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| **Day-222** | AN59.1,59.2,59.3 | Identify external features of pons, Draw & label transverse section of pons at the upper and lower level, Enumerate cranial nerve nuclei in pons with their functional group **HI Physiology** | Lecture | AN58.3, 58.4 | Enumerate cranial nerve nuclei in medulla oblongata with their functional group, Describe anatomical basis & effects of medial & lateral medullary syndrome | Smallgroup teaching | PY10.7 | Describe and discuss functions of thalamus VI Psychiatry **HI Anatomy** | Lecture |
| **Day-223** | PY10.7 | Describe and discuss functions of hypothalamus and its abnormalities **VI Psychiatry** **HI Anatomy** | Lecture | BI11.16, BI11.19/ BI8.4 | Outline the Principles of ELISA, Immunodiffusion and their application/ Discuss the causes (including dietary habits), effects and health risks associated with being overweight/ obesity. **VI patho medicine** | Demo/ GD | AN60.1 | Describe & demonstrate external & internal features of cerebellum | Lecture |

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| PY 2.11/ PY10.11, 10.20 | Revision RBC/ Cranial Nerves 8 **HI Anatomy** | DOAP | PY10.7 | Describe and discuss thalamus abnormalities | SDL | | | |
| AN59.1, 59.2,59.3 | Identify external features of pons, Draw & label transverse section of pons at the upper and lower level, Enumerate cranial nerve nuclei in pons with their functional group **HI Physiology** | Practical, DOAP Session | | Recombinant DNA technology, PCR and Blotting techniques | SDL | | | |

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| **Day-224** | AN61.1,61.2,61.3 | Identify external & internal features of midbrain, Describe internal features of midbrain at the level of superior & inferior colliculus, Describe anatomical basis & effects of Benedikt's and Weber's syndrome | Lecture | AN61.1, 61.2,61.3 | Identify external & internal features of midbrain, Describe internal features of midbrain at the level of superior & inferior colliculus, Describe anatomical basis & effects of Benedikt's and Weber's syndrome **VI Medicne HI Physiology** | Smallgroup discussion, Practical | PY10.7 | Describe and discuss functions of basal ganglia | Lecture |
| **Day-225** | BI10.1 & BI10.2 | Describe the cancer initiation, promotion oncogenes & oncogene activation. Also focus on p53 & apoptosis. And Describe various biochemical tumor markers and the biochemical basis of cancer therapy. **VI obs gyne, surgery, pathology** | Lecture | | Biochemistry FA & feedback | | AN62.1 | Enumerate cranial nerve nuclei with its functional component **VI Medicine HI Physiology** | Lecture |
| **Day-226** | AN62.2 | Describe & demonstrate surfaces, sulci, gyri, poles, & functional areas of cerebral hemisphere **VI Medicine HI Physiology** | Lecture | AN62.2 | Describe & demonstrate surfaces, sulci, gyri, poles, & functional areas of cerebral hemisphere **VI Medicine HI Physiology** | Smallgroup discussion, Practical | PY10.7 | Describe and discuss functions of basal ganglia | Lecture |

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| BI11.16, BI11.19/ BI8.4 | Outline the Principles of ELISA, Immunodiffusion and their application/ Discuss the causes (including dietary habits), effects and health risks associated with being overweight/ obesity. **VI medicine patho** | Demo/ GD | | Sports/ Extarcurricular activities | | | | |
| AN62.1 | Enumerate cranial nerve nuclei with its functional component | Smallgroup teaching | AN56.2 | Describe circulation of CSF with its applied anatomy | SDL | | | |
| PY 2.11/ PY10.11, 10.20 | Revision RBC/ Cranial Nerves 8 | DOAP | PY10.7 | Describe and discuss functions of hypothalamus and its abnormalities | SDL | | | |

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| **Day-227** | PY10.7 | Describe and discuss functions of basal ganglia & its abnormalities | Group discussion | BI11.16, BI11.19/ BI9.1 | Electrolyte analysis by ISE and ABG analyzer/ List the functions and components of the extracellular matrix (ECM). | Demo/ tutorial | AN62.3 | Describe the white matter of cerebrum | Lecture |
| **Day-228** | BI6.5 | Describe the biochemical role of fat soluble vitamins in the body and explain the manifestations of their deficiency **VI medicine** | Lecture | AN62.3 | Describe the white matter of cerebrum | Smallgroup teaching | PY10.7 | Describe and discuss functions of cerebellum | Lecture |
| **Day-229** | PY10.7 | Describe and discuss functions of cerebellum | Lecture | PY 2.11/ PY10.11 | Revision TLC/ Cranial Nerves 9,10,11,12 | DOAP | AN62.4 | Enumerate parts & major connections of basal ganglia & limbic lobe | Lecture |
| **Day-230** | AN62.5 | Describe boundaries, parts, gross relations, major nuclei and connections of dorsal thalamus, hypothalamus, epithalamus, metathalamus and subthalamus **VI Medicine HI Physiology** | Lecture | AN62.5 | Describe boundaries, parts, gross relations, major nuclei and connections of dorsal thalamus, hypothalamus, epithalamus, metathalamus and subthalamus | Smallgroup teaching | PY10.7 | Describe and discuss functions of cerebellum & its abnormalities | Small Group Discussion |

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| AN62.2 | Describe & demonstrate surfaces, sulci, gyri, poles, & functional areas of cerebral hemisphere | Smallgroup discussion, Practical, DOAP Session | | Sports/ Extarcurricular activities | | | | |
| PY 2.11/ PY10.11 | Revision TLC/ Cranial Nerves 9,10,11,12 | DOAP | C.M. 3.4 | Discuss the various methods of solid waste disposal | Small Group Discussion | | | |
| AN62.4 | Enumerate parts & major connections of basal ganglia & limbic lobe **HI Physiology** | Smallgroup teaching | PY10.7 | Describe and discuss functions of cerebellum | Group discussion | | | |
| BI11.16, BI11.19/ BI9.1 | Electrolyte analysis by ISE and ABG analyzer/ List the functions and components of the extracellular matrix (ECM). | Demo/ tutorial | | Sports/ Extarcurricular activities | | | | |

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| **Day-231** | BI7.6 | Describe the free radicals and anti-oxidant defence systems in the body. | Lecture | PY 10.6 | Functions of hypothalamus | Small Group discussion | AN62.6 | Describe & identify formation, branches & major areas of distribution of circle of Willis | Lecture | L U N C H | AN62.6 | Describe & identify formation, branches & major areas of distribution of circle of Willis | Smallgroup discussion, Practical, DOAP Session | AN57.4, 57.5 | Enumerate ascending & descending tracts at mid thoracic level of spinal cord, Describe anatomical basis of syringomyelia | SDL | | | |
| **Day-232** | AN63.1 | Describe & demonstrate parts, boundaries & features of IIIrd, IVth & lateral ventricle **HI Physiology** | Lecture | AN63.1 | Describe & demonstrate parts, boundaries & features of IIIrd, IVth & lateral ventricle **HI Physiology** | Smallgroup discussion, Practical, DOAP Session | PY10.7 | Describe and discuss functions of limbic system and their abnormalities | Lecture | | PY 2.11/ PY10.11 | Revision TLC/ Cranial Nerves 9,10,11,12 | DOAP | PY10.7 | Describe & discuss the functions of basal ganglia & cerebellum | Group discussion | | | |
| **Day-233** | PY10.12 | Identify normal EEG forms **VI Psychiatry** | Group Teaching | BI11.16, BI11.19/ | DNA isolation from blood/ tissue | Demo | AN63.1 | Describe & demonstrate parts, boundaries & features of IIIrd, IVth & lateral ventricle **HI Physiology** | Lecture | | AN63.1 | Describe & demonstrate parts, boundaries & features of IIIrd, IVth & lateral ventricle | Smallgroup discussion, Practical, DOAP Session | | Sports/ Extarcurricular activities | | | | |
| **Day-234** | BI6.5 | Describe the biochemical role of fat soluble vitamins in the body and explain the manifestations of their deficiency **VI medicine** | Lecture | AN63.2 | Describe anatomical basis of congenital hydrocephalus **VI pediatrics** **HI Physiology** | Smallgroup teaching | PY10.8 | Describe and discuss behavioural and EEG characteristics during sleep **VI Psychiatry** | Lecture | | PY 2.11/ PY10.11 | Revision TLC/ Cranial Nerves 9,10,11,12 **HI Anatomy** | DOAP | C.M. 3.2-3.3 | Assessment | | | | |

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| **Day-235** | AN64.1 | Describe & identify the microanatomical features of Spinal cord, Cerebellum & Cerebrum | Lecture | AN64.2 | Describe the development of neural tube, spinal cord, medulla oblongata pons, midbrain, cerebral hemisphere & cerebellum | Smallgroup teaching | PY10.8 | Describe and discuss behavioural and EEG characteristics during sleep and mechanism responsible for its production | Lecture |
| **Day-236** | BI7.5 | Describe the role of xenobiotics in disease | Lecture | PY10.9 | Describe and discuss the physiological basis of memory, learning **VI Psychiatry** | Lecture | AN64.2 | Describe the development of neural tube, spinal cord, medulla oblongata pons, midbrain, cerebral hemisphere & cerebellum | Lecture |
| **Day-237** | AN64.3 | Describe various types of open neural tube defects with its embryological basis Classroom | | | | ECE (Anatomy) | PY10.9 | Describe and discuss the physiological basis of speech | Lecture |

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| BI9.2 | Discuss the involvement of ECM components in health and disease. **VI Medicine** | | | | ECE (Biochemistry) | | | | |
| AN64.3 | Describe various types of open neural tube defects with its embryological basis **VI Obs & Gyne** | Smallgroup teaching | AN58.1, 58.2 | Identify external features of medulla oblongata, Describe transverse section of medulla oblongata at the level of 1) pyramidal decussation, 2) sensory decussation 3) ION | SDL | | | | |
| PY 2.11/ PY10.11 | Revision TLC/ Cranial Nerves 9,10,11,12 **HI Anatomy** | DOAP | PY10.9 | Describe and discuss the physiological basis of memory, learning | Small Group Discussion | | | | |

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| **Day-238** | PY10.9 | Describe and discuss the physiological basis of speech & aphasia **VI Medicine ENT** | Small group discussion | BI11.16/ BI9.3 | Quality control/ Describe protein targeting & sorting along with its associated disorders. | Demo/ small group discussion | AN15.1 | Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh | Lecture | AN 14.1 | Identify the given bone, its side, important features & keep it in anatomicalposition | Small Group Teaching , DOAP Session | | free radicals, antioxidant and metabolism of xenobiotics | SDL | | | |
| **Day-239** | BI6.5 | Describe the biochemical role of water soluble vitamins in the body and explain the manifestations of their deficiency **VI medicine** | Lecture | AN 14.1 | Identify the given bone, its side, important features & keep it in anatomicalposition | Small Group Teaching, DOAP Session | PY10.11 | Describe and discuss chemical transmission in the nervous system. (Outline the psychiatry element). | Lecture | 2.11,5.12 | DLC/ Pulse/ Blood pressure | Practical revision | C.M. 3.4 | Discuss the methods of safe disposal of human excreta | Self directed learning | | | |
| **Day-240** | PY10.7 | Cerebellar dysfunction & Parkinson's disease Classroom | | | | ECE (Physiology) | AN63.2 | Describe anatomical basis of congenital hydrocephalus | Lecture | AN64.1 | Describe & identify the microanatomical features of Spinal cord, Cerebellum & Cerebrum | Practical | PY10.12 | EEG | Small Group Discussion | | | |

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| **Day-241** | AN15.3,15.4 | Describe and demonstrate boundaries, floor, roof and contents of femoral triangle, Explain anatomical basis of Psoas abscess & Femoral hernia **VI Surgery** | Lecture | AN15.1, 15.2 | Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh, Describe and demonstrate major muscles with their attachment, nerve supply and action | DOAP Session, Practical | PY10.13 | Describe and discuss perception of taste sensation | Lecture | | BI11.16/ BI9.3 | Quality control/ Describe protein targeting & sorting along with its associated disorders. | Small group discusio n/ demo | | Sports/ Extarcurr icular activities | | | | |
| **Day-242** | BI7.7 | Describe the role of oxidative stress in the pathogenesis of conditions such as cancer, complications of diabetes mellitus and atherosclerosis. **VI Medicine patho** | Small group discussio n | | Anatomy FA & feedback | | AN15.3, 15.4 | Describe and demonstrate boundaries, floor, roof and contents of femoral triangle, Explain anatomical basis of Psoas abscess & Femoral hernia **VI Surgery** | Lecture | | AN15.3, 15.4,15. 5 | Describe and demonstrate boundaries, floor, roof and contents of femoral triangle, Explain anatomical basis of Psoas abscess & Femoral hernia, Describe and demonstrate adductor canal with its content **VI Surgery** | Practical, Small Group Discussio n | AN58.3, 58.4 | Enumera te cranial nerve nuclei in medulla oblongat a with their function al group, Describe anatomi cal basis & effects of medial & lateral medullar y syndrom e | SDL | | | |

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| **Day-243** | AN15.5 | Describe and demonstrate adductor canal with its content | Lecture | AN 14.1 | Identify the given bone, its side, important features & keep it in anatomicalposition | Small Group Teaching, DOAP Session | PY10.14 | Describe and discuss patho-physiology of altered smell and taste sensation **VI ENT** | Small group discussio n | | 2.11,5.1 3 | RBC/ ECG | Practical revision | PY10.13 | Describe and discuss functional anatomy of ear | SDL | | | |
| | **competency no.** | **9 AM -10 AM** | **mode** | **competency no.** | **10 AM -12 Noon** | **mode** | **competency no.** | **12 Noon -1 PM** | **mode** | **1 PM-2 PM** | **competency no.** | **2 PM -4 PM** | **mode** | **competency no.** | **4 PM-5 PM** | **mode** | | | |
| **Day-244** | PY10.15 | Describe and discuss auditory pathways **VI ENT** | Lecture | BI11.23 / BI11.17 | Calculate energy content of different food Items, identify food items with high and low glycemic index and explain the importance of these in the diet / Explain the basis and rationale of biochemical tests done in the following conditions:- diabetes mellitus, dyslipidemia, myocardial infarction, | Tutorial/small group discussion | AN16.1, 16.2,16. 3 | Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of gluteal region, Describe anatomical basis o, Explain the anatomical basis of Trendelenburg sign **VI Surgery** | Lecture | | AN16.1, 16.2,16. 3 | Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of gluteal region, Describe anatomical basis o, Explain the anatomical basis of Trendelenburg sig **VI Surgery** | Practical, Small Group Discussio n | BI6.10 | Enumera te and describe the disorder s associate d with mineral metaboli sm. | Lecture | | | |

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| **Day-245** | BI6.5 | Describe the biochemical role of water soluble vitamins in the body and explain the manifestations of their deficiency **VI medicne** | Lecture | AN16.4, 16.5 | Describe and demonstrate the hamstrings group of muscles with their attachment, nerve supply and actions, Describe and demonstrate the origin, course, relations, branches (or tributaries), termination of important nerves and vessels on the back of thigh | Practical, Small Group Discussion | PY10.15 | Describe and discuss of physiology of hearing | Lecture |
| **Day-246** | PY10.15 | Describe and discuss physiology of hearing | Lecture | PY11.3 | Describe and discuss mechanism of fever, cold injuries and heat stroke | Lecture | AN16.4, 16.5 | Describe and demonstrate the hamstrings group of muscles with their attachment, nerve supply and actions, Describe and demonstrate the origin, course, relations, branches (or tributaries), termination of important nerves and vessels on the back of thigh | Lecture |

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| 2.11,5.13 | RBC/ ECG | Practical revision | C.M. 3.5 | Discuss the standards of housing | Small Group Discussion | | | |
| AN16.6 | Describe and demonstrate the boundaries, roof, floor, contents and relations of popliteal fossa | Practical, Small Group Discussion | PY10.15 | Describe and discuss physiology of hearing | Group discussion | | | |

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| **Day-247** | AN16.6 | Describe and demonstrate the boundaries, roof, floor, contents and relations of popliteal fossa | Lecture | AN16.1, 16.2,16.3 | Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of gluteal region, Describe anatomical basis o, Explain the anatomical basis of Trendelenburg sig | Lecture | PY10.15 | Describe and discuss physiology of hearing | Lecture |
| **Day-248** | BI6.9 | Describe the functions of various minerals in the body, their metabolism and homeostasis. | Lecture | | Physiology FA & feedback | | AN17.1, 17.2,17.3 | Describe and demonstrate the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles involved, blood and nerve supply, bursae around the hip joint , Describe anatomical basis of complications of fracture neck of femur, Describe dislocation of hip joint and surgical hip replacement | Lecture |

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| BI11.23 / BI11.17 | Calculate energy content of different food Items, identify food items with high and low glycemic index and explain the importance of these in the diet / Explain the basis and rationale of biochemical tests done in the following conditions:- diabetes mellitus, dyslipidemia, myocardial infarction, | Tutorial/ GD | | Sports/ Extarcurricular activities | | | | |
| AN 71 , 72 | Bone & Cartilage, Integumentary System | Practical, Small Group Discussion | AN62.6 | Describe & identify formation, branches & major areas of distribution of circle of Willis | SDL | | | |

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| **Day-249** | AN18.1 | Describe and demonstrate major muscles of anterolateral compartment of leg with their attachment, nerve supply and actions | Lecture | AN18.1 | Describe and demonstrate major muscles of anterolateral compartment of leg with their attachment, nerve supply and actions | Practical, Small Group Discussion | PY10.16 | Describe and discuss pathophysiology of deafness. Describe hearing tests **VI ENT** | Small group discussion |
| **Day-250** | PY10.17 | Describe and discuss physiology of image formation, physiology of vision **VI Ophthalmology** | Lecture | BI11.24 / BI11.17 | Enumerate advantages and/or disadvantages of use of unsaturated, saturated and trans fats in food./ Explain the basis and rationale of biochemical tests done in the following conditions:- renal failure, gout, proteinuria, nephrotic syndrome, edema, | GD/ Tutorial | AN18.2, 18.3 | Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior compartment of leg, Explain the anatomical basis of foot drop **VI Surgery** | Lecture |

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| 2.11,5.15 | RBC/ Clinical examination of CVS | Practical revision | PY10.17 | Describe and discuss functional anatomy of eye | SDL | | | |
| AN18.2, 18.3 | Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior compartment of leg, Explain the anatomical basis of foot drop **VI Surgery** | Practical, Small Group Discussion | BI11.17 | Explain the basis and rationale of biochemical tests done in the following conditions:- disorders of acid-base balance | SDL | | | |

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| **Day-251** | BI8.1 | Discuss the importance of various dietary components and explain importance of dietary fibre. | Lecture | AN18.2, 18.3 | Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior compartment of leg, Explain the anatomical basis of foot drop | Practical, Small Group Discussion | PY10.17 | Describe and discuss physiology of image formation, physiology of vision | Lecture |
| **Day-252** | PY10.17 | Describe and discuss functional anatomy of eye, physiology of physiology of vision including colour vision | Lecture | PY11.4 | Describe and discuss metabolic adjustments during exercise; physical training effects | Lecture | AN18.4 | Describe and demonstrate the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles involved, blood and nerve supply, bursae around the knee joint | Lecture |

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| PY11.7 | Describe and discuss physiology of free radicals and antioxidants | Group discussion | C.M. 3.5 | Discuss the effect of housing on health | Small Group Discussion | | | |
| AN 14.1 | Identify the given bone, its side, important features & keep it in anatomicalposition | Small Group Teaching, DOAP Session | PY10.17 | Describe and discuss functional anatomy of eye, physiology of physiology of vision including colour vision | Small Group Discussion | | | |

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| **Day-253** | AN18.6,18.7 | Describe knee joint injuries with its applied anatomy, Explain anatomical basis of Osteoarthritis **VI Ortho** | Lecture | AN18.4 | Describe and demonstrate the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles involved, blood and nerve supply, bursae around the knee joint | Small Group Teaching | PY10.17 | Describe and discuss physiology of pupil and light reflex | Lecture |
| **Day-254** | BI6.9 | Describe the functions of various minerals in the body, their metabolism and homeostasis. | Lecture | | Biochemistry FA & feedback | | AN19.1, 19.4 | Describe & Demonstratethe major muscles of back of leg with their attachment, nerve supply and actions, Explain the anatomical basis of rupture of calcaneal tendon **VI Surgery** | Lecture |

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| BI11.24 / BI11.17 | Enumerate advantages and/or disadvantages of use of unsaturated, saturated and trans fats in food./ Explain the basis and rationale of biochemical tests done in the following conditions:- renal failure, gout, proteinuria, nephrotic syndrome, edema, | GD/ Tutorial | | Sports/ Extarcurricular activities | | | | |
| AN18.5, 18.6,18.7 | Explain the anatomical basis of locking and unlocking of the knee joint, Describe knee joint injuries with its applied anatomy, Explain anatomical basis of Osteoarthritis | Small Group Teaching | AN20.3 | Describe and demonstrate Fascia lata, Venous drainage, Lymphatic drainage, Retinacula & Dermatomes of lower limb | SDL | | | |

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| **Day-255** | AN19.2,19.3 | Describe and demonstrate the origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of leg, Explain the concept of "Peripheral heart" | Lecture | AN19.1, 19.4 | achment, nerve supply and actions, Explain the anatomical basis of rupture of calcaneal tendon | Practical | PY10.17 | Describe and discuss refractive errors, colour blindness | Small group discussio n |
| **Day-256** | PY10.18 | Describe and discuss the physiological basis of lesion in visual pathway **VI Ophthalmology** | Small group discussio n | BI6.14 / BI11.17 | Pancreatic function tests/ Explain the basis and rationale of biochemical tests done in the following conditions:- liver diseases- jaundice, fatty liver, etc. | Tutorial | AN19.5, 19.6,19. 7 | Describe factors maintaining importance arches of the foot with its importance, Explain the anatomical basis of Flat foot & Club foot, Explain the anatomical basis of Metatarsalgia & Plantar fasciitis **VI ortho** | Lecture |

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| PY11.8 | Discuss & compare cardio-respiratory changes in exercise (isometric and isotonic) with that in the resting state and under different environmental conditions (heat and cold) | Group discussio n | PY10.17 | Describe and discuss physiolo gy of image formatio n, physiolo gy of vision | SDL | | | |
| AN19.2, 19.3 | Describe and demonstrate the origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of leg, Explain the concept of "Peripheral heart" | Practical, Small Group Teaching | BI8.5 | Summari ze the nutritiona l importa nce of commo nly used items of food including fruits and vegetabl es.(macr o-molecule s & its importa nce) **VI commun ity medicin e, Medicin** | Lecture | | | |

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| **Day-257** | BI8.2 | Describe the types and causes of protein energy malnutrition and its effects. | Lecture | AN18.5, 18.6,18.7 | Explain the anatomical basis of locking and unlocking of the knee joint, Describe knee joint injuries with its applied anatomy, Explain anatomical basis of Osteoarthritis | Small Group Teaching | PY10.19 | Describe and discuss auditory & visual evoke potentials **VI Ophthalmology** | Lecture |
| **Day-258** | PY11.1 | Describe and discuss mechanism of temperature regulation | Lecture | PY11.6 PY11.10 | Describe physiology of Infancy and Interpret anthropometric assessment of infants VI Pediatrics | Lecture | AN20.1 | Describe and demonstrate the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles involved, blood and nerve supply of tibiofibular and ankle joint | Lecture |

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| PY11.12 | Discuss the physiological effects of meditation | Small Group Discussion | C.M. 3.5 | Define and Discuss the criterias of overcrowding and its effect of health | Self directed learning | | | |
| AN20.5 | Explain anatomical basis of varicose veins and deep vein thrombosis **VI Surgery** | Small Group Discussion | PY11.1 | Describe and discuss mechanism of temperature regulation | Group discussion | | | |

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| **Day-259** | AN20.2 | Describe the subtalar and transverse tarsal joints | Lecture | AN20.9 | Identify & demonstrate Palpation of vessels (femoral, popliteal,dorsalis pedis,post tibial), Mid inguinal point, Surface projection of: femoral nerve, Saphenous opening, nerve, Great and small saphenous veins, Sciatic, tibial, common peroneal & deep peroneal **VI Medicien Surgery** | Lecture | PY11.2 | Describe and discuss adaptation to altered temperature (heat and cold) | Lecture | | BI6.14 | Pancreatic function tests | Tutorial | | Sports/ Extarcurricular activities | | | | |
| **Day-260** | **2nd Terminal Examinations** | | | | | | | | | | | | | | | | | | |
| **Day-261** | | | | | | | | | | | | | | | | | | | |
| **Day-262** | | | | | | | | | | | | | | | | | | | |
| **Day-263** | | | | | | | | | | | | | | | | | | | |
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| **Day-273** | | | | | | | | | | | | | | | | | | | |
| **Day-274** | | | | | | | | | | | | | | | | | | | |

**Teaching Hours of Phase I subjects:**

| Subject | Lectures | Small Group | SDL | Total Hours | |
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| | (Hours) | teaching/Tutorial/ Integrated learning/ Practical (hours) | (Hours) | |
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| Foundation Course | | | | 175 |
| Anatomy | 222 | 426 | 40 | 688 |
| Physiology | 162 | 312 | 25 | 499 |
| Biochemistry | 81 | 152 | 20 | 253 |
| ECE | 30 | 30 | 30 | 90 |
| Community Medicine | 20 | 30 | 5 | 55 |
| AETCOM | | 26 | 8 | 34 |
| Sports/Extracurricular Activities | | | | 54 |
| Formative assessment & feedback (66 hrs) + term assessment (63 hrs) | | | | 96 |
| Total | | | | 1769 (excluding 175 hours of foundation course) |