NUMBER	COMPETENCY NAME	SUBJECT
AN1.1	Demonstrate normal anatomical position, various planes, relation, comparison, laterality & movement in our body	Anatomical terminology
AN1.2	Describe composition of bone and bone marrow	Anatomical terminology
AN10.1	Identify & describe boundaries and contents of axilla	Axilla, Shoulder and Scapular region
AN10.10	Describe and identify the deltoid and rotator cuff muscles	Axilla, Shoulder and Scapular region
AN10.11	Describe & demonstrate attachment of serratus anterior with its action	Axilla, Shoulder and Scapular region
AN10.12	Describe and demonstrate Shoulder joint for– type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements, muscles involved, blood supply, nerve supply and applied anatomy	Human Anatomy
AN10.13	Explain anatomical basis of Injury to axillary nerve during intramuscular injections	Axilla, Shoulder and Scapular region
AN10.2	Identify, describe and demonstrate the origin, extent, course, parts, relations and branches of axillary artery & tributaries of vein	Axilla, Shoulder and Scapular region
AN10.3	Describe, identify and demonstrate formation, branches, relations, area of supply of branches, course and relations of terminal branches of brachial plexus	Axilla, Shoulder and Scapular region
AN10.4	Describe the anatomical groups of axillary lymph nodes and specify their areas of drainage	Human Anatomy
AN10.5	Explain variations in formation of brachial plexus	Axilla, Shoulder and Scapular region
AN10.6	Explain the anatomical basis of clinical features of Erb's palsy and Klumpke's paralysis	Human Anatomy
AN10.7	Explain anatomical basis of enlarged axillary lymph nodes	Human Anatomy
AN10.8	Describe, identify and demonstrate the position, attachment, nerve supply and actions of trapezius and latissimus dorsi	Axilla, Shoulder and Scapular region

AN10.9	Describe the arterial anastomosis around the scapula and mention the boundaries of triangle of auscultation	Axilla, Shoulder and Scapular region
AN11.1	Describe and demonstrate muscle groups of upper arm with emphasis on biceps and triceps brachii	Arm & Cubital fossa
AN11.2	Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels in arm	Arm & Cubital fossa
AN11.3	Describe the anatomical basis of Venepuncture of cubital veins	Human Anatomy
AN11.4	Describe the anatomical basis of Saturday night paralysis	Human Anatomy
AN11.5	Identify & describe boundaries and contents of cubital fossa	Arm & Cubital fossa
AN11.6	Describe the anastomosis around the elbow joint	Arm & Cubital fossa
AN12.1	Describe and demonstrate important muscle groups of ventral forearm with attachments, nerve supply and actions	Forearm & hand
AN12.10	Explain infection of fascial spaces of palm	Human Anatomy
AN12.11	Identify, describe and demonstrate important muscle groups of dorsal forearm with attachments, nerve supply and actions	Human Anatomy
AN12.12	Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of forearm	Human Anatomy
AN12.13	Describe the anatomical basis of Wrist drop	Human Anatomy
AN12.14	Identify & describe compartments deep to extensor retinaculum	Human Anatomy
AN12.15	Identify & describe extensor expansion formation	Forearm & hand
AN12.2	Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels of forearm	Forearm & hand
AN12.3	Identify & describe flexor retinaculum with its attachments	Forearm & hand
AN12.4	Explain anatomical basis of carpal tunnel syndrome	Forearm & hand

AN12.5	Identify & describe small muscles of hand. Also describe movements of thumb and muscles involved	Forearm & hand
AN12.6	Describe & demonstrate movements of thumb and muscles involved	Forearm & hand
AN12.7	Identify & describe course and branches of important blood vessels and nerves in hand	Forearm & hand
AN12.8	Describe anatomical basis of Claw hand	Human Anatomy
AN12.9	Identify & describe fibrous flexor sheaths, ulnar bursa, radial bursa and digital synovial sheaths	Forearm & hand
AN13.1	Describe and explain Fascia of upper limb and compartments, veins of upper limb and its lymphatic drainage	General Features, Joints, radiographs & surface marking
AN13.2	Describe dermatomes of upper limb	General Features, Joints, radiographs & surface marking
AN13.3	Identify & describe the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements, blood and nerve supply of elbow joint, proximal and distal radio-ulnar joints, wrist joint & first carpometacarpal joint	General Features, Joints, radiographs & surface marking
AN13.4	Identify the bones and joints of upper limb seen in anteroposterior and lateral view radiographs of shoulder region, arm, elbow, forearm and hand	Human Anatomy
AN13.5	Identify the bones and joints of upper limb seen in anteroposterior and lateral view radiographs of shoulder region, arm, elbow, forearm and hand	General Features, Joints, radiographs & surface marking
AN13.6	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	General Features, Joints, radiographs & surface marking
AN13.7	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, Brachioradialis	General Features, Joints, radiographs & surface marking

AN13.8	Describe development of upper limb	General Features, Joints, radiographs & surface marking
AN14.1	Identify the given bone, its side, important features & keep it in anatomical position	uil
AN14.2	Identify & describe joints formed by the given bone	uil
AN14.3	Describe the importance of ossification of lower end of femur & upper end of tibia	uil
AN14.4	Identify and name various bones in the articulated foot with individual muscle attachment	uil
AN15.1	Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh	Front & Medial side of thigh
AN15.2	Describe and demonstrate major muscles with their attachment, nerve supply and actions	Front & Medial side of thigh
AN15.3	Describe and demonstrate boundaries, floor, roof and contents of femoral triangle	Human Anatomy
AN15.4	Explain anatomical basis of Psoas abscess & Femoral hernia	Human Anatomy
AN15.5	Describe and demonstrate adductor canal with its content	Front & Medial side of thigh
AN16.1	Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of gluteal region	Gluteal region & back of thigh
AN16.2	Describe anatomical basis of sciatic nerve injury during gluteal intramuscular injections	Human Anatomy
AN16.3	Explain the anatomical basis of Trendelenburg sign	Human Anatomy
AN16.4	Describe and demonstrate the hamstrings group of muscles with their attachment, nerve supply and actions	Gluteal region & back of thigh
AN16.5	Describe and demonstrate the origin, course, relations, branches (or tributaries), termination of important nerves and vessels on the back of thigh	Gluteal region & back of thigh
AN16.6	Describe and demonstrate the boundaries, roof, floor, contents and relations of popliteal fossa	Gluteal region & back of thigh

AN17.1	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	Hip Joint
AN17.2	Describe anatomical basis of complications of fracture neck of femur.	Human Anatomy
AN17.3	Describe dislocation of hip joint and surgical hip replacement	Human Anatomy
AN18.1	Describe and demonstrate major muscles of anterior compartment of leg with their attachment, nerve supply and actions	Knee joint, Anterior compartment of leg & dorsum of foot
AN18.2	Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior compartment of leg	Knee joint, Anterior compartment of leg & dorsum of foot
AN18.3	Explain the anatomical basis of foot drop	Human Anatomy
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	Knee joint, Anterior compartment of leg & dorsum of foot
AN18.5	Explain the anatomical basis of locking and unlocking of the knee joint	Knee joint, Anterior compartment of leg & dorsum of foot
AN18.6	Describe knee joint injuries with its applied anatomy	Human Anatomy
AN18.7	Explain anatomical basis of Osteoarthritis	Human Anatomy
AN19.1	Describe and demonstrate the major muscles of back of leg with their attachment, nerve supply and actions	Back of Leg & Sole
AN19.2	Describe and demonstrate the origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of leg	Back of Leg & Sole
AN19.3	Explain the concept of “Peripheral heart”	Human Anatomy
AN19.4	Explain the anatomical basis of rupture of calcaneal tendon	Human Anatomy
AN19.5	Describe factors maintaining importance arches of the foot with its importance	Back of Leg & Sole

AN19.6	Explain the anatomical basis of Flat foot & Club foot	Human Anatomy
AN19.7	Explain the anatomical basis of Metatarsalgia & Plantar fasciitis	Human Anatomy
AN2.1	Describe parts, blood and nerve supply of a long bone	General features of bones & Joints
AN2.2	Enumerate laws of ossification	General features of bones & Joints
AN2.3	Enumerate special features of a sesamoid bone	General features of bones & Joints
AN2.4	Describe various types of cartilage with its structure & distribution in body	Human Anatomy
AN2.5	Describe various joints with subtypes and examples	Human Anatomy
AN2.6	Explain the concept of nerve supply of joints & Hilton's law	General features of bones & Joints
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	General Features, Joints, radiographs & surface marking
AN20.10	Describe basic concept of development of lower limb	General Features, Joints, radiographs & surface marking
AN20.2	Describe the subtalar and transverse tarsal joints	General Features, Joints, radiographs & surface marking
AN20.3	Describe and demonstrate Fascia lata, Venous drainage, Lymphatic drainage, Retinacula & Dermatomes of lower limb	General Features, Joints, radiographs & surface marking
AN20.4	Explain anatomical basis of enlarged inguinal lymph nodes	Human Anatomy
AN20.5	Explain anatomical basis of varicose veins and deep vein thrombosis	Human Anatomy
AN20.6	Identify the bones and joints of lower limb seen in anteroposterior and lateral view radiographs of various regions of lower limb	Human Anatomy

AN20.7	Identify & demonstrate important bony landmarks of lower limb: -Vertebral levels of highest point of iliac crest, posterior superior iliac spines, iliac tubercle, pubic tubercle, ischial tuberosity, adductor tubercle, -Tibial tuberosity, head of fibula, -Medial and lateral malleoli, Condyles of femur and tibia, sustentaculum tali, tuberosity of fifth metatarsal, tuberosity of the navicular	General Features, Joints, radiographs & surface marking
AN20.8	Identify & demonstrate palpation of femoral, popliteal, post tibial, anti tibial & dorsalis pedis blood vessels in a simulated environment	Human Anatomy
AN20.9	Identify & demonstrate Palpation of vessels (femoral, popliteal,dorsalis pedis,post tibial), Mid inguinal point, Surface projection of: femoral nerve, Saphenous opening, Sciatic, tibial, common peroneal & deep peroneal nerve, great and small saphenous veins	Human Anatomy
AN21.1	Identify and describe the salient features of sternum, typical rib, Ist rib and typical thoracic vertebra	Thoracic cage
AN21.10	Describe costochondral and interchondral joints	Thoracic cage
AN21.11	Mention boundaries and contents of the superior, anterior, middle and posterior mediastinum	Thoracic cage
AN21.2	Identify & describe the features of 2nd, 11th and 12th ribs, 1st, 11th and 12th thoracic vertebrae	Thoracic cage
AN21.3	Describe & demonstrate the boundaries of thoracic inlet, cavity and outlet	Thoracic cage
AN21.4	Describe & demonstrate extent, attachments, direction of fibres, nerve supply and actions of intercostal muscles	Thoracic cage
AN21.5	Describe & demonstrate origin, course, relations and branches of a typical intercostal nerve	Thoracic cage
AN21.6	Mention origin, course and branches/ tributaries of: 1) anterior & posterior intercostal vessels 2) internal thoracic vessels	Thoracic cage

AN21.7	Mention the origin, course, relations and branches of 1) atypical intercostal nerve 2) superior intercostal artery, subcostal artery	Thoracic cage
AN21.8	Describe & demonstrate type, articular surfaces & movements of manubriosternal, costovertebral, costotransverse and xiphisternal joints	Thoracic cage
AN21.9	Describe & demonstrate mechanics and types of respiration	Thoracic cage
AN22.1	Describe & demonstrate subdivisions, sinuses in pericardium, blood supply and nerve supply of pericardium	Heart & Pericardium
AN22.2	Describe & demonstrate external and internal features of each chamber of heart	Human Anatomy
AN22.3	Describe & demonstrate origin, course and branches of coronary arteries	Heart & Pericardium
AN22.4	Describe anatomical basis of ischaemic heart disease	Human Anatomy
AN22.5	Describe & demonstrate the formation, course, tributaries and termination of coronary sinus	Heart & Pericardium
AN22.6	Describe the fibrous skeleton of heart	Heart & Pericardium
AN22.7	Mention the parts, position and arterial supply of the conducting system of heart	Human Anatomy
AN23.1	Describe & demonstrate the external appearance, relations, blood supply, nerve supply, lymphatic drainage and applied anatomy of oesophagus	Human Anatomy
AN23.2	Describe & demonstrate the extent, relations, tributaries of thoracic duct and enumerate its applied anatomy	Human Anatomy
AN23.3	Describe & demonstrate origin, course, relations, tributaries and termination of superior venacava, azygos, hemiazygos and accessory hemiazygos veins	Mediastinum
AN23.4	Mention the extent, branches and relations of arch of aorta & descending thoracic aorta	Mediastinum
AN23.5	Identify & Mention the location and extent of thoracic sympathetic chain	Mediastinum
AN23.6	Describe the splanchnic nerves	Mediastinum

AN23.7	Mention the extent, relations and applied anatomy of lymphatic duct	Human Anatomy
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	Human Anatomy
AN24.2	Identify side, external features and relations of structures which form root of lung & bronchial tree and their clinical correlate	Human Anatomy
AN24.3	Describe a bronchopulmonary segment	Human Anatomy
AN24.4	Identify phrenic nerve & describe its formation & distribution	Lungs & Trachea
AN24.5	Mention the blood supply, lymphatic drainage and nerve supply of lungs	Lungs & Trachea
AN24.6	Describe the extent, length, relations, blood supply, lymphatic drainage and nerve supply of trachea	Lungs & Trachea
AN25.1	Identify, draw and label a slide of trachea and lung	Thorax
AN25.2	Describe development of pleura, lung & heart	Thorax
AN25.3	Describe fetal circulation and changes occurring at birth	Human Anatomy
AN25.4	Describe embryological basis of: 1) atrial septal defect, 2)ventricular septal defect, 3) Fallot's tetralogy & 4) tracheo-oesophageal fistula	Human Anatomy
AN25.5	Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta	Human Anatomy
AN25.6	Mention development of aortic arch arteries, SVC, IVC and coronary sinus	Thorax
AN25.7	Identify structures seen on a plain x-ray chest (PA view)	Human Anatomy
AN25.8	Identify and describe in brief a barium swallow	Human Anatomy
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	Human Anatomy

AN26.1	Demonstrate anatomical position of skull, Identify and locate individual skull bones in skull	Skull osteology
AN26.2	Describe the features of norma frontalis, verticalis, occipitalis, lateralis and basalis	Skull osteology
AN26.3	Describe cranial cavity, its subdivisions, foramina and structures passing through them	Skull osteology
AN26.4	Describe morphological features of mandible	Skull osteology
AN26.5	Describe features of typical and atypical cervical vertebrae (atlas and axis)	Skull osteology
AN26.6	Explain the concept of bones that ossify in membrane	Skull osteology
AN26.7	Describe the features of the 7^{th} cervical vertebra	Skull osteology
AN27.1	Describe the layers of scalp, its blood supply, its nerve supply and surgical importance	Human Anatomy
AN27.2	Describe emissary veins with its role in spread of infection from extracranial route to intracranial venous sinuses	Scalp
AN28.1	Describe & demonstrate muscles of facial expression and their nerve supply	Face & parotid region
AN28.10	Explain the anatomical basis of Frey's syndrome	Human Anatomy
AN28.2	Describe sensory innervation of face	Face & parotid region
AN28.3	Describe & demonstrate origin /formation, course, branches /tributaries of facial vessels	Face & parotid region
AN28.4	Describe & demonstrate branches of facial nerve with distribution	Face & parotid region
AN28.5	Describe cervical lymph nodes and lymphatic drainage of head, face and neck	Face & parotid region
AN28.6	Identify superficial muscles of face, their nerve supply and actions	Face & parotid region
AN28.7	Explain the anatomical basis of facial nerve palsy	Human Anatomy
AN28.8	Explain surgical importance of deep facial vein	Human Anatomy
AN28.9	Describe & demonstrate the parts, borders, surfaces, contents, relations and nerve supply of parotid gland with course of its duct and surgical importance	Human Anatomy

AN29.1	Describe & demonstrate attachments, nerve supply, relations and actions of sternocleidomastoid	Posterior triangle of neck
AN29.2	Explain anatomical basis of Erb's & Klumpke's palsy	Human Anatomy
AN29.3	Explain anatomical basis of wry neck	Human Anatomy
AN29.4	Describe & demonstrate attachments of 1) inferior belly of omohyoid, 2)scalenus anterior, 3) scalenus medius & 4) levator scapulae	Posterior triangle of neck
AN3.1	Classify muscle tissue according to structure & action	General features of Muscle
AN3.2	Enumerate parts of skeletal muscle and differentiate between A116tendons and aponeuroses with examples	General features of Muscle
AN3.3	Explain Shunt and spurt muscles	General features of Muscle
AN30.1	Describe the cranial fossae & identify related structures.	Human Anatomy
AN30.2	Describe & identify major foramina with structures passing through them	Human Anatomy
AN30.3	Describe & identify dural folds & dural venous sinuses	Cranial cavity
AN30.4	Describe clinical importance of dural venous sinuses	Cranial cavity
AN30.5	Explain effect of pituitary tumours on visual pathway	Human Anatomy
AN31.1	Describe & identify extra ocular muscles of eyeball	Orbit
AN31.2	Describe & demonstrate nerves and vessels in the orbit	Orbit
AN31.3	Describe anatomical basis of Horner's syndrome	Human Anatomy
AN31.4	Enumerate components of lacrimal apparatus	Orbit
AN31.5	Explain the anatomical basis of oculomotor, trochlear and abducent nerve palsies along with strabismus	Human Anatomy
AN32.1	Describe boundaries and subdivisions of anterior triangle	Anterior Triangle

AN32.2	Describe & demonstrate boundaries and contents of muscular, carotid, digastric and submental triangles	Anterior Triangle
AN33.1	Describe & demonstrate extent, boundaries and contents of temporal and infratemporal fossae	Temporal and Infratemporal regions
AN33.2	Describe & demonstrate attachments, direction of fibres, nerve supply and actions of muscles of mastication	Human Anatomy
AN33.3	Describe & demonstrate articulating surface, type & movements of temporomandibular joint	Temporal and Infratemporal regions
AN33.4	Explain the clinical significance of pterygoid venous plexus	Human Anatomy
AN33.5	Describe the features of dislocation of temporomandibular joint	Human Anatomy
AN34.1	Describe & demonstrate the morphology, relations and nerve supply of submandibular salivary gland & submandibular ganglion	Human Anatomy
AN34.2	Describe the basis of formation of submandibular stones	Human Anatomy
AN35.1	Describe the parts, extent, attachments, modifications of deep cervical fascia	Deep structures in the neck
AN35.10	Describe the fascial spaces of neck	Deep structures in the neck
AN35.2	Describe & demonstrate location, parts, borders, surfaces, relations & blood supply of thyroid gland	Human Anatomy
AN35.3	Demonstrate & describe the origin, parts, course & branches subclavian artery	Deep structures in the neck
AN35.4	Describe & demonstrate origin, course, relations, tributaries and termination of internal jugular & brachiocephalic veins	Deep structures in the neck
AN35.5	Describe & demonstrate extent, drainage & applied anatomy of cervical lymph nodes	Human Anatomy
AN35.6	Describe and demonstrate the extent, formation, relation & branches of cervical sympathetic chain	Deep structures in the neck
AN35.7	Describe the course and branches of IX, X, XI & XII nerve in the neck	Deep structures in the neck

AN35.8	Describe the anatomically relevant clinical features of Thyroid swellings	Human Anatomy
AN35.9	Describe the clinical features of compression of subclavian artery and lower trunk of brachial plexus by cervical rib	Human Anatomy
AN36.1	Describe the (1) morphology, relations, blood supply and applied anatomy of palatine tonsil and (2) composition of soft palate	Human Anatomy
AN36.2	Describe the components and functions of waldeyer's lymphatic ring	Human Anatomy
AN36.3	Describe the boundaries and clinical significance of pyriform fossa	Human Anatomy
AN36.4	Describe the anatomical basis of tonsilitis, tonsillectomy, adenoids and peri-tonsillar abscess	Human Anatomy
AN36.5	Describe the clinical significance of Killian's dehiscence	Human Anatomy
AN37.1	Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply	Human Anatomy
AN37.2	Describe location and functional anatomy of paranasal sinuses	Human Anatomy
AN37.3	Describe anatomical basis of sinusitis & maxillary sinus tumours	Human Anatomy
AN38.1	Describe the morphology, identify structure of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of the larynx	Human Anatomy
AN38.2	Describe the anatomical aspects of laryngitis	Human Anatomy
AN38.3	Describe anatomical basis of recurrent laryngeal nerve injury	Human Anatomy
AN39.1	Describe & demonstrate the morphology, nerve supply, embryological basis of nerve supply, blood supply, lymphatic drainage and actions of extrinsic and intrinsic muscles of tongue	Tongue
AN39.2	Explain the anatomical basis of hypoglossal nerve palsy	Human Anatomy
AN4.1	Describe different types of skin & dermatomes in body	General features of skin and fascia
AN4.2	Describe structure & function of skin with its appendages	Human Anatomy

AN4.3	Describe superficial fascia along with fat distribution in body	General features of skin and fascia
AN4.4	Describe modifications of deep fascia with its functions	Human Anatomy
AN4.5	Explain principles of skin incisions	Human Anatomy
AN40.1	Describe & identify the parts, blood supply and nerve supply of external ear	Human Anatomy
AN40.2	Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube	Human Anatomy
AN40.3	Describe the features of internal ear	Human Anatomy
AN40.4	Explain anatomical basis of otitis externa and otitis media	Human Anatomy
AN40.5	Explain anatomical basis of myringotomy	Human Anatomy
AN41.1	Describe & demonstrate parts and layers of eyeball	Human Anatomy
AN41.2	Describe the anatomical aspects of cataract, glaucoma & central retinal artery occlusion	Human Anatomy
AN41.3	Describe the position, nerve supply and actions of interaocular muscles	Human Anatomy
AN42.1	Describe the contents of the vertebral canal	Back Region
AN42.2	Describe & demonstrate the boundaries and contents of Suboccipital triangle	Back Region
AN42.3	Describe the position, direction of fibres, relations, nerve supply, actions of semispinalis capitis and splenius capitis	Back Region
AN43.1	Describe & demonstrate the movements with muscles producing the movements of atlantooccipital joint & atlantoaxial joint	Head & neck Joints, Histology, Development, Radiography & Surface marking
AN43.2	Identify, describe and draw the microanatomy of pituitary gland, thyroid, parathyroid gland, tongue, salivary glands, tonsil, epiglottis, cornea, retina	Head & neck Joints, Histology, Development, Radiography & Surface marking

AN43.3	Identify, describe and draw microanatomy of olfactory epithelium, eyelid, lip, sclero-corneal junction, optic nerve, cochlea- organ of corti, pineal gland	Head & neck Joints, Histology, Development, Radiography & Surface marking
AN43.4	Describe the development and developmental basis of congenital anomalies of face, palate, tongue, branchial apparatus, pituitary gland, thyroid gland & eye	Head & neck Joints, Histology, Development, Radiography & Surface marking
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	Human Anatomy
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	Human Anatomy
AN43.7	Identify the anatomical structures in 1) Plain x ray skull, 2) AP view and lateral view 3) Plain x ray cervical spine - AP and lateral view 4) Plain x ray of paranasal sinuses	Human Anatomy
AN43.8	Describe the anatomical route used for carotid angiogram and vertebral angiogram	Human Anatomy
AN43.9	Identify anatomical structures in carotid angiogram and vertebral angiogram	Human Anatomy
AN44.1	Describe & demonstrate the Planes (transpyloric, transtubercular, subcostal, lateral vertical, linea alba, linea semilunaris), regions & Quadrants of abdomen	Human Anatomy
AN44.2	Describe & identify the Fascia, nerves & blood vessels of anterior abdominal wall	Anterior abdominal wall
AN44.3	Describe the formation of rectus sheath and its contents	Anterior abdominal wall

AN44.4	Describe & demonstrate extent, boundaries, contents of Inguinal canal including Hesselbach's triangle.	Human Anatomy
AN44.5	Explain the anatomical basis of inguinal hernia.	Human Anatomy
AN44.6	Describe & demonstrate attachments of muscles of anterior abdominal wall	Human Anatomy
AN44.7	Enumerate common Abdominal incisions	Human Anatomy
AN45.1	Describe Thoracolumbar fascia	Posterior abdominal wal
AN45.2	Describe & demonstrate Lumbar plexus for its root value, formation & branches	Posterior abdominal wal
AN45.3	Mention the major subgroups of back muscles, nerve supply and action	Posterior abdominal wal
AN46.1	Describe & demonstrate coverings, internal structure, side determination, blood supply, nerve supply, lymphatic drainage & descent of testis with its applied anatomy	Human Anatomy
AN46.2	Describe parts of Epididymis	Male external genitalia
AN46.3	Describe Penis under following headings: (parts, components, blood supply and lymphatic drainage)	Male external genitalia
AN46.4	Explain the anatomical basis of varicocele	Human Anatomy
AN46.5	Explain the anatomical basis of Phimosis & Circumcision	Human Anatomy
AN47.1	Describe & identify boundaries and recesses of Lesser & Greater sac	Human Anatomy
AN47.10	Enumerate the sites of portosystemic anastomosis	Human Anatomy
AN47.11	Explain the anatomic basis of hematemesis & caput medusae in portal hypertension	Human Anatomy
AN47.12	Describe important nerve plexuses of posterior abdominal wall	Abdominal cavity
AN47.13	Describe & demonstrate the attachments, openings, nerve supply & action of the thoracoabdominal diaphragm	Abdominal cavity
AN47.14	Describe the abnormal openings of thoracoabdominal diaphragm and diaphragmatic hernia	Human Anatomy

AN47.2	Name & identify various peritoneal folds & pouches with its explanation.	Human Anatomy
AN47.3	Explain anatomical basis of Ascites & Peritonitis	Human Anatomy
AN47.4	Explain anatomical basis of Subphrenic abscess	Human Anatomy
AN47.5	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)	Human Anatomy
AN47.6	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	Human Anatomy
AN47.7	Mention the clinical importance of Calot's triangle	Human Anatomy
AN47.8	Describe & identify the formation, course relations and tributaries of Portal vein, Inferior vena cava & Renal vein	Abdominal cavity
AN47.9	Describe & identify the origin, course, important relations and branches of Abdominal aorta, Coeliac trunk, Superior mesenteric, Inferior mesenteric & Common iliac artery	Abdominal cavity
AN48.1	Describe & identify the muscles of Pelvic diaphragm	Pelvic wall and viscera
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	Pelvic wall and viscera
AN48.3	Describe & demonstrate the origin, course, important relations and branches of internal iliac artery	Pelvic wall and viscera
AN48.4	Describe the branches of sacral plexus	Pelvic wall and viscera

AN48.5	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	Human Anatomy
AN48.6	Describe neurological basis of automatic bladder	Human Anatomy
AN48.7	Mention the lobes involved in benign prostatic hypertrophy & prostatic cancer	Human Anatomy
AN48.8	Mention the structures palpable during vaginal & rectal examination	Human Anatomy
AN49.1	Describe & demonstrate the Superficial & Deep perineal pouch (boundaries and contents)	Human Anatomy
AN49.2	Describe & identify Perineal body	Human Anatomy
AN49.3	Describe & demonstrate Perineal membrane in male & female	Perineum
AN49.4	Describe & demonstrate boundaries, content & applied anatomy of Ischiorectal fossa	Human Anatomy
AN49.5	Explain the anatomical basis of Perineal tear, Episiotomy, Perianal abscess and Anal fissure	Human Anatomy
AN5.1	Differentiate between blood vascular and lymphatic system	General features of the cardiovascular system
AN5.2	Differentiate between pulmonary and systemic circulation	General features of the cardiovascular system
AN5.3	List general differences between arteries & veins	General features of the cardiovascular system
AN5.4	Explain functional difference between elastic, muscular arteries and arterioles	General features of the cardiovascular system

AN5.5	Describe portal system giving examples	General features of the cardiovascular system
AN5.6	Describe the concept of anastomoses and collateral circulation with significance of end-arteries	Human Anatomy
AN5.7	Explain function of meta-arterioles, precapillary sphincters, arterio-venous anastomoses	General features of the cardiovascular system
AN5.8	Define thrombosis, infarction & aneurysm	General features of the cardiovascular system
AN50.1	Describe the curvatures of the vertebral column	Vertebral column
AN50.2	Describe & demonstrate the type, articular ends, ligaments and movements of Intervertebral joints, Sacroiliac joints & Pubic symphysis	Vertebral column
AN50.3	Describe lumbar puncture (site, direction of the needle, structures pierced during the lumbar puncture)	Human Anatomy
AN50.4	Explain the anatomical basis of Scoliosis, Lordosis, Prolapsed disc, Spondylolisthesis & Spina bifida	Human Anatomy
AN51.1	Describe & identify the cross-section at the level of T8, T10 and L1 (transpyloric plane)	Human Anatomy
AN51.2	Describe & identify the midsagittal section of male and female pelvis	Human Anatomy
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	Histology & Embryology

AN52.2	Describe & identify the microanatomical features of: Urinary system: Kidney, Ureter & Urinary bladder Male Reproductive System: Testis, Epididymis,Vas deferens, Prostate & penis Female reproductive system: Ovary, Uterus, Uterine tube, Cervix, Placenta & Umbilical cord	Histology & Embryology
AN52.3	Describe & identify the microanatomical features of Cardiooesophageal junction, Corpus luteum	Histology & Embryology
AN52.4	Describe the development of anterior abdominal wall	Histology & Embryology
AN52.5	Describe the development and congenital anomalies of diaphragm	Human Anatomy
AN52.6	Describe the development and congenital anomalies of foregut, midgut & hindgut	Human Anatomy
AN52.7	Describe the development of urinary system	Human Anatomy
AN52.8	Describe the development of male & female reproductive system	Human Anatomy
AN53.1	Identify & hold the bone in the anatomical position, describe the salient features, articulations & demonstrate the attachments of muscle groups	Human Anatomy
AN53.2	Demonstrate anatomical position of bony pelvis & show boundaries of pelvic inlet, pelvic cavity, pelvic outlet	Human Anatomy
AN53.3	Define true pelvis and false pelvis and demonstrate sex determination in male & female bony pelvis	Human Anatomy
AN53.4	Explain and demonstrate clinical importance of bones of abdominopelvic region (sacralization of lumbar vertebra, Lumbarization of 1st sacral vertebra, types of bony pelvis & Coccyx)	Osteology
AN54.1	Describe & identify features of plain X ray abdomen	Radiodiagnosis
AN54.2	Describe & identify the special radiographs of abdominopelvic region (contrast X ray Barium swallow, Barium meal, Barium enema, Cholecystography, Intravenous pyelography &Hysterosalpingography)	Human Anatomy

AN54.3	Describe role of ERCP, CT abdomen, MRI, Arteriography in radiodiagnosis of abdomen	Human Anatomy
AN541.	Describe & identify features of plain X ray abdomen	Human Anatomy
AN55.1	Demonstrate the surface marking of regions and planes of abdomen, superficial inguinal ring, deep inguinal ring , McBurney's point, Renal Angle & Murphy's point	Human Anatomy
AN55.2	Demonstrate the surface projections of: stomach, liver, fundus of gall bladder, spleen, duodenum, pancreas, ileocaecal junction, idneys & root of mesentery	Human Anatomy
AN56.1	Describe & identify various layers of meninges with its extent & modifications	Human Anatomy
AN56.2	Describe circulation of CSF with its applied anatomy	Human Anatomy
AN57.1	Identify external features of spinal cord	Spinal Cord
AN57.2	Describe extent of spinal cord in child & adult with its clinical implication	Spinal Cord
AN57.3	Draw & label transverse section of spinal cord at mid-cervical & mid- thoracic level	Spinal Cord
AN57.4	Enumerate ascending & descending tracts at mid thoracic level of spinal cord	Human Anatomy
AN57.5	Describe anatomical basis of syringomyelia	Human Anatomy
AN58.1	Identify external features of medulla oblongata	Medulla Oblongata
AN58.2	Describe transverse section of medulla oblongata at the level of 1) pyramidal decussation, 2) sensory decussation 3) ION	Medulla Oblongata
AN58.3	Enumerate cranial nerve nuclei in medulla oblongata with their functional group	Medulla Oblongata
AN58.4	Describe anatomical basis & effects of medial & lateral medullary syndrome	Human Anatomy
AN59.1	Identify external features of pons	Pons
AN59.2	Draw & label transverse section of pons at the upper and lower level	Pons
AN59.3	Enumerate cranial nerve nuclei in pons with their functional group	Pons
AN6.1	List the components and functions of the lymphatic system	General Features of lymphatic system

AN6.2	Describe structure of lymph capillaries & mechanism of lymph circulation	General Features of lymphatic system
AN6.3	Explain the concept of lymphoedema and spread of tumors via lymphatics and venous system	Human Anatomy
AN60.1	Describe & demonstrate external & internal features of cerebellum	Cerebellum
AN60.2	Describe connections of cerebellar cortex and intracerebellar nuclei	Cerebellum
AN60.3	Describe anatomical basis of cerebellar dysfunction	Human Anatomy
AN61.1	Identify external & internal features of midbrain	Midbrain
AN61.2	Describe internal features of midbrain at the level of superior & inferior colliculus	Midbrain
AN61.3	Describe anatomical basis & effects of Benedict's and Weber's syndrome	Human Anatomy
AN62.1	Enumerate cranial nerve nuclei with its functional component	Cranial nerve nuclei & Cerebral hemispheres
AN62.2	Describe & demonstrate surfaces, sulci, gyri, poles, & functional areas of cerebral hemisphere	Human Anatomy
AN62.3	Describe the white matter of cerebrum	Human Anatomy
AN62.4	Enumerate parts & major connections of basal ganglia & limbic lobe	Cranial nerve nuclei & Cerebral hemispheres
AN62.5	Describe boundaries, parts, gross relations, major nuclei and connections of dorsal thalamus, hypothalamus, epithalamus, metathalamus and subthalamus	Human Anatomy
AN62.6	Describe & identify formation, branches & major areas of distribution of circle of Willis	Human Anatomy
AN63.1	Describe & demonstrate parts, boundaries & features of IIIrd, IVth & lateral ventricle	Ventricular System
AN63.2	Describe anatomical basis of congenital hydrocephalus	Human Anatomy
AN64.1	Describe & identify the microanatomical features of Spinal cord, Cerebellum & Cerebrum	Histology & Embryology
AN64.2	Describe the development of neural tube, spinal cord, medulla oblongata, pons, midbrain, cerebral hemisphere & cerebellum	Histology & Embryology

AN64.3	Describe various types of open neural tube defects with its embryological basis	Human Anatomy
AN65.1	Identify epithelium under the microscope & describe the various types that correlate to its function	Epithelium histology
AN65.2	Describe the ultrastructure of epithelium	Epithelium histology
AN66.1	Describe & identify various types of connective tissue with functional correlation	Connective tissue histology
AN66.2	Describe the ultrastructure of connective tissue	Connective tissue histology
AN67.1	Describe & identify various types of muscle under the microscope	Muscle histology
AN67.2	Classify muscle and describe the structure-function correlation of the same	Muscle histology
AN67.3	Describe the ultrastructure of muscular tissue	Muscle histology
AN68.1	Describe & Identify multipolar & unipolar neuron, ganglia, peripheral nerve	Nervous tissue histology
AN68.2	Describe the structure-function correlation of neuron	Nervous tissue histology
AN68.3	Describe the ultrastructure of nervous tissue	Nervous tissue histology
AN69.1	Identify elastic & muscular blood vessels, capillaries under the microscope	Blood Vessels
AN69.2	Describe the various types and structure-function correlation of blood vessel	Blood Vessels
AN69.3	Describe the ultrastructure of blood vessels	Blood Vessels
AN7.1	Describe general plan of nervous system with components of central, peripheral & autonomic nervous systems	Features of individual bones (Upper Limb)
AN7.2	List components of nervous tissue and their functions	Features of individual bones (Upper Limb)
AN7.3	Describe parts of a neuron and classify them based on number of neurites, size & function	Features of individual bones (Upper Limb)
AN7.4	Describe structure of a typical spinal nerve	Features of individual bones (Upper Limb)

AN7.5	Describe principles of sensory and motor innervation of muscles	Human Anatomy
AN7.6	Describe concept of loss of innervation of a muscle with its applied anatomy	Human Anatomy
AN7.7	Describe various type of synapse	Features of individual bones (Upper Limb)
AN7.8	Describe differences between sympathetic and spinal ganglia	Features of individual bones (Upper Limb)
AN70.1	Identify exocrine gland under the microscope & distinguish between serous, mucous and mixed acini	Glands & Lymphoid tissue
AN70.2	Identify the lymphoid tissue under the microscope & describe microanatomy of lymph node, spleen, thymus, tonsil and correlate the structure with function	Glands & Lymphoid tissue
AN71.1	Identify bone under the microscope; classify various types and describe the structure-function correlation of the same	Bone & Cartilage
AN71.2	Identify cartilage under the microscope & describe various types and structure- function correlation of the same	Bone & Cartilage
AN72.1	Identify the skin and its appendages under the microscope and correlate the structure with function	Integumentary System
AN73.1	Describe the structure of chromosomes with classification	Chromosomes
AN73.2	Describe technique of karyotyping with its applications	Chromosomes
AN73.3	Describe the Lyon's hypothesis	Chromosomes
AN74.1	Describe the various modes of inheritance with examples	Human Anatomy
AN74.2	Draw pedigree charts for the various types of inheritance & give examples of diseases of each mode of inheritance	Human Anatomy
AN74.3	Describe multifactorial inheritance with examples	Human Anatomy

AN74.4	Describe the genetic basis & clinical features of Achondroplasia, Cystic Fibrosis, Vitamin D resistant rickets, Hemophilia, Duchene's muscular dystrophy & Sickle cell anaemia	Human Anatomy
AN75.1	Describe the structural and numerical chromosomal aberrations	Human Anatomy
AN75.2	Explain the terms mosaics and chimeras with example	Human Anatomy
AN75.3	Describe the genetic basis & clinical features of Prader Willi syndrome, Edward syndrome & Patau syndrome	Human Anatomy
AN75.4	Describe genetic basis of variation; polymorphism and mutation	Human Anatomy
AN75.5	Describe the principles of genetic counselling	Human Anatomy
AN76.1	Describe the stages of human life	Introduction to embryology
AN76.2	Explain the terms- phylogeny, ontogeny, trimester, viability	Introduction to embryology
AN77.1	Describe the uterine changes occurring during the menstrual cycle	Human Anatomy
AN77.2	Describe the synchrony between the ovarian and menstrual cycles	Human Anatomy
AN77.3	Describe spermatogenesis and oogenesis along with diagrams	Human Anatomy
AN77.4	Describe stages and consequences of fertilisation	Human Anatomy
AN77.5	Enumerate and describe the anatomical principles underlying contraception	Human Anatomy
AN77.6	Describe teratogenic influences; fertility and sterility, surrogate motherhood, social significance of "sex-ratio".	Human Anatomy
AN78.1	Describe cleavage and formation of blastocyst	Second week of development
AN78.2	Describe the development of trophoblast	Second week of development
AN78.3	Describe the process of implantation & common abnormal sites of implantation	Human Anatomy

AN78.4	Describe the formation of extra-embryonic mesoderm and coelom, bilaminar disc and prochordal plate	Second week of development
AN78.5	Describe in brief abortion: decidual reaction, pregnancy test	Human Anatomy
AN79.1	Describe the formation & fate of the primitive streak	3rd to 8th week of development
AN79.2	Describe formation & fate of notochord	3rd to 8th week of development
AN79.3	Describe the process of neurulation	3rd to 8th week of development
AN79.4	Describe the development of somites and intra-embryonic coelom	Human Anatomy
AN79.5	Explain embryological basis of congenital malformations, nucleus pulposus, sacrococcygeal teratomas, neural tube defects	Human Anatomy
AN79.6	Describe the diagnosis of pregnancy in first trimester and role of teratogens, alpha-fetoprotein	Human Anatomy
AN8.1	Identify the given bone, its side, important features & keep it in anatomical position	Features of individual bones (Upper Limb)
AN8.2	Identify & describe joints formed by the given bone	Features of individual bones (Upper Limb)
AN8.3	Enumerate peculiarities of clavicle	Features of individual bones (Upper Limb)
AN8.4	Demonstrate important muscle attachment on the given bone	Human Anatomy
AN8.5	Identify and name various bones in articulated hand, Specify the parts of metacarpals and phalanges and enumerate the peculiarities of pisiform	Features of individual bones (Upper Limb)
AN8.6	Describe scaphoid fracture and explain the anatomical basis of avascular necrosis	Human Anatomy
AN80.1	Describe formation, functions & fate of-chorion: amnion; yolk sac; allantois & decidua	Fetal membranes
AN80.2	Describe formation & structure of umbilical cord	Fetal membranes

AN80.3	Describe formation of placenta, its physiological functions, foetomaternal circulation & placental barrier	Human Anatomy
AN80.4	Describe embryological basis of twinning in monozygotic & dizygotic twins	Human Anatomy
AN80.5	Describe role of placental hormones in uterine growth & parturition	Human Anatomy
AN80.6	Explain embryological basis of estimation of fetal age.	Human Anatomy
AN80.7	Describe various types of umbilical cord attachments	Human Anatomy
AN81.1	Describe various methods of prenatal diagnosis	Human Anatomy
AN81.2	Describe indications, process and disadvantages of amniocentesis	Human Anatomy
AN81.3	Describe indications, process and disadvantages of chorion villus biopsy	Human Anatomy
AN82.1	Demonstrate respect and follow the correct procedure when handling cadavers and other biologic tissue	Ethics in Anatomy
AN9.1	Describe attachment, nerve supply & action of pectoralis major and pectoralis minor	Pectoral region
AN9.2	Breast-Describe the location, extent, deep relations, structure, age changes, blood supply, lymphatic drainage, microanatomy and applied anatomy of breast	Human Anatomy
AN9.3	Describe development of breast	Pectoral region
AS1.1	Describe the evolution of Anaesthesiology as a modern specialty	Anaesthesiology as a specialty
AS1.2	Describe the roles of Anaesthesiologist in the medical profession (including as a peri-operative physician, in the intensive care and high dependency units, in the management of acute and chronic pain, including labour analgesia, in the resuscitation of acutely ill)	Anaesthesiology as a specialty
AS1.3	Enumerate and describe the principle of ethics as it relates to Anaesthesiology	Anaesthesiology as a specialty
AS1.4	Describe the prospects of Anaesthesiology as a career	Anaesthesiology as a specialty

AS10.1	Enumerate the hazards of incorrect patient positioning	Patient safety
AS10.2	Enumerate the hazards encountered in the perioperative period and steps/techniques taken to prevent them	Patient safety
AS10.3	Describe the role of communication in patient safety	Anesthesiology
AS10.4	Define and describe common medical and medication errors in anaesthesia	Anesthesiology
AS2.1	Enumerate the indications, describe the steps and demonstrate in a simulated environment basic life support in adults children and neonates	Anesthesiology
AS2.2	Enumerate the indications, describe the steps and demonstrate in a simulated environment advanced life support in adults and children	Anesthesiology
AS3.1	Describe the principles of preoperative evaluation	Anesthesiology
AS3.2	Elicit, present and document an appropriate history including medication history in a patient undergoing Surgery as it pertains to a preoperative anaesthetic evaluation	Anesthesiology
AS3.3	Demonstrate and document an appropriate clinical examination in a patient undergoing General Surgery	Anesthesiology
AS3.4	Choose and interpret appropriate testing for patients undergoing Surgery	Anesthesiology
AS3.5	Determine the readiness for General Surgery in a patient based on the preoperative evaluation	Anesthesiology
AS3.6	Choose and write a prescription for appropriate premedications for patients undergoing surgery	Preoperative evaluation and medication
AS4.1	Describe and discuss the pharmacology of drugs used in induction and maintenance of general anaesthesia (including intravenous and inhalation induction agents, opiate and non-opiate analgesics, depolarising and non depolarising muscle relaxants, anticholinesterases)	General Anaesthesia
AS4.2	Describe the anatomy of the airway and its implications for general anaesthesia	General Anaesthesia

AS4.3	Observe and describe the principles and the practical aspects of induction and maintenance of anesthesia	General Anaesthesia
AS4.4	Observe and describe the principles and the steps/ techniques in maintenance of vital organ functions in patients undergoing surgical procedures	General Anaesthesia
AS4.5	Observe and describe the principles and the steps/ techniques in monitoring patients during anaesthesia	General Anaesthesia
AS4.6	Observe and describe the principles and the steps/ techniques involved in day care anesthesia	General Anaesthesia
AS4.7	Observe and describe the principles and the steps/ techniques involved in anaesthesia outside the operating room	General Anaesthesia
AS5.1	Enumerate the indications for and describe the principles of regional anaesthesia (including spinal, epidural and combined)	Regional anaesthesia
AS5.2	Describe the correlative anatomy of the brachial plexus, subarachnoid and epidural spaces	Regional anaesthesia
AS5.3	Observe and describe the principles and steps/ techniques involved in peripheral nerve blocks	Regional anaesthesia
AS5.4	Observe and describe the pharmacology and correct use of commonly used drugs and adjuvant agents in regional anesthesia	Regional anaesthesia
AS5.5	Observe and describe the principles and steps/ techniques involved in caudal epidural in adults and children	Regional anaesthesia
AS5.6	Observe and describe the principles and steps/ techniques involved in common blocks used in Surgery(including brachial plexus blocks)	Anesthesiology
AS6.1	Describe the principles of monitoring and resuscitation in the recovery room	Post-anaesthesia recovery
AS6.2	Observe and enumerate the contents of the crash cart and describe the equipment used in the recovery room	Post-anaesthesia recovery
AS6.3	Describe the common complications encountered by patients in the recovery room, their recognition and principles of management	Anesthesiology

AS7.1	Visit, enumerate and describe the functions of an Intensive Care Unit	Intensive Care Management
AS7.2	Enumerate and describe the criteria for admission and discharge of a patient to an ICU	Anesthesiology
AS7.3	Observe and describe the management of an unconscious patient	Anesthesiology
AS7.4	Observe and describe the basic setup process of a ventilator	Anesthesiology
AS7.5	Observe and describe the principles of monitoring in an ICU	Anesthesiology
AS8.1	Describe the anatomical correlates and physiologic principles of pain	Pain and its management
AS8.2	Elicit and determine the level, quality and quantity of pain and its tolerance in patient or surrogate	Pain and its management
AS8.3	Describe the pharmacology and use of drugs in the management of pain	Pain and its management
AS8.4	Describe the principles of pain management in palliative care	Anesthesiology
AS8.5	Describe the principles of pain management in the terminally ill	Anesthesiology
AS9.1	Establish intravenous access in a simulated environment	Fluids
AS9.2	Establish central venous access in a simulated environment	Fluids
AS9.3	Describe the principles of fluid therapy in the preoperative period	Anesthesiology
AS9.4	Enumerate blood products and describe the use of blood products in the preoperative period	Anesthesiology
BI1.1	Describe the molecular and functional organization of a cell and its sub-cellular components.	Biochemistry
BI1.26	Calculate albumin: globulin (AG) ratio and creatinine clearance	Biochemistry
BI1.27	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	Biochemistry

BI1.28	Enumerate advantages and/or disadvantages of use of unsaturated, saturated and trans fats in food	Biochemistry
BI10.1	Describe the cancer initiation promotion oncogenes & oncogene activation.	Biochemistry
BI10.2	Describe various biochemical tumor markers and the biochemical basis of cancer therapy.	Biochemistry
BI10.3	Describe the cellular and humoral components of the immune system & describe the types and structure of antibody	Biochemistry
BI10.4	Describe & discuss innate and adaptive immune responses, self/non-self recognition and the central role of T-helper cells in immune responses	Biochemistry
BI10.5	Describe antigens and concepts involved in vaccine development	Biochemistry
BI11.1	Describe commonly used laboratory apparatus and equipments, good safe laboratory practice and waste disposal.	Biochemical Laboratory Tests
BI11.10	Demonstrate the estimation of triglycerides	Biochemical Laboratory Tests
BI11.11	Demonstrate estimation of calcium and phosphorous	Biochemical Laboratory Tests
BI11.12	Demonstrate the estimation of serum bilirubin	Biochemical Laboratory Tests
BI11.13	Demonstrate the estimation of SGOT/ SGPT	Biochemical Laboratory Tests
BI11.14	Demonstrate the estimation of alkaline phosphatase	Biochemical Laboratory Tests
BI11.15	Describe & discuss the composition of CSF	Biochemical Laboratory Tests

BI11.16	Observe use of commonly used equipments/techniques in biochemistry laboratory including: •pH meter •Paper chromatography of amino acid •Protein electrophoresis •TLC, PAGE •Electrolyte analysis by ISE •ABG analyzer •ELISA •Immunodiffusion •Autoanalyser •Quality control •DNA isolation from blood/ tissue	Biochemical Laboratory Tests
BI11.17	Explain the basis and rationale of biochemical tests done in the following conditions: - diabetes mellitus, - dyslipidemia, - myocardial infarction, - renal failure, gout, - proteinuria, - nephrotic syndrome, - edema, - jaundice, - liver diseases, pancreatitis, disorders of acid- base balance, thyroid disorders.	Biochemistry
BI11.18	Discuss the principles of spectrophotometry.	Biochemical Laboratory Tests
BI11.19	Outline the basic principles involved in the functioning of instruments commonly used in a biochemistry laboratory and their applications.	Biochemical Laboratory Tests
BI11.2	Describe the preparation of buffers and estimation of pH.	Biochemical Laboratory Tests
BI11.20	Identify abnormal constituents in urine, interpret the findings and correlate these with pathological states.	Biochemical Laboratory Tests
BI11.21	Demonstrate estimation of glucose, creatinine, urea and total protein in serum.	Biochemical Laboratory Tests

BI11.22	Calculate albumin: globulin (AG) ratio and creatinine clearance	Biochemistry
BI11.23	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	Biochemistry
BI11.24	Enumerate advantages and/or disadvantages of use of unsaturated, saturated and trans fats in food.	Biochemistry
BI11.3	Describe the chemical components of normal urine.	Biochemical Laboratory Tests
BI11.4	Perform urine analysis to estimate and determine normal and abnormal constituents	Biochemistry
BI11.5	Describe screening of urine for inborn errors & describe the use of paper chromatography	Biochemistry
BI11.6	Describe the principles of colorimetry	Biochemical Laboratory Tests
BI11.7	Demonstrate the estimation of serum creatinine and creatinine clearance	Biochemical Laboratory Tests
BI11.8	Demonstrate estimation of serum proteins, albumin and A:G ratio	Biochemical Laboratory Tests
BI11.9	Demonstrate the estimation of serum total cholesterol and HDL- cholesterol	Biochemical Laboratory Tests
BI2.1	Explain fundamental concepts of enzyme, isoenzyme, alloenzyme, coenzyme & co-factors. Enumerate the main classes of IUBMB nomenclature.	Enzyme
BI2.2	Observe the estimation of SGOT & SGPT	Enzyme
BI2.3	Describe and explain the basic principles of enzyme activity	Enzyme
BI2.4	Describe and discuss enzyme inhibitors as poisons and drugs, therapeutic enzymes and the clinical utility of various serum enzymes as markers of pathological conditions	Biochemistry
BI2.5	Describe and discuss the clinical utility of various serum enzymes as markers of pathological conditions	Biochemistry
BI2.6	Discuss use of enzymes in laboratory investigations (Enzyme- based assays)	Biochemistry

BI2.7	Interpret laboratory results of enzyme activities & describe the clinical utility of various enzymes as markers of pathological conditions	Biochemistry
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	Chemistry and Metabolism of Carbohydrates
BI3.10	Interpret the results of blood glucose levels and other laboratory investigations related to disorders of carbohydrate metabolism	Biochemistry
BI3.2	Describe the processes involved in digestion and assimilation of carbohydrates and storage.	Chemistry and Metabolism of Carbohydrates
BI3.3	Describe and discuss the digestion and assimilation of carbohydrates from food.	Chemistry and Metabolism of Carbohydrates
BI3.4	Define and differentiate the pathways of carbohydrate metabolism (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt)	Biochemistry
BI3.5	Describe and discuss the regulation, functions and integration of carbohydrate along with associated diseases/disorders	Biochemistry
BI3.6	Describe and discuss the concept of TCA cycle as a amphibolic pathway and its regulation.	Chemistry and Metabolism of Carbohydrates
BI3.7	Describe the common poisons that inhibit crucial enzymes of carbohydrate metabolism (eg; fluoride, arsenate)	Biochemistry
BI3.8	Discuss and interpret laboratory results of analytes associated with metabolism of carbohydrates	Biochemistry
BI3.9	Discuss the mechanism and significance of blood glucose regulation in health and disease	Biochemistry
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	Biochemistry

BI4.2	Describe the processes involved in digestion and absorption of dietary lipids and also the key features of their metabolism	Biochemistry
BI4.3	Explain the regulation of lipoprotein metabolism & associated disorders	Biochemistry
BI4.4	Describe the structure and functions of lipoproteins, their functions, interrelations & relations with atherosclerosis	Biochemistry
BI4.5	Interpret laboratory results of analytes associated with metabolism of lipids	Biochemistry
BI4.6	Describe the therapeutic uses of prostaglandins and inhibitors of eicosanoid synthesis	Biochemistry
BI4.7	Interpret laboratory results of analytes associated with metabolism of lipids	Biochemistry
BI5.1	Describe and discuss structural organization of proteins.	Chemistry and Metabolism of Proteins
BI5.2	Describe and discuss functions of proteins and structure-function relationships in relevant areas e.g., hemoglobin and selected hemoglobinopathies	Biochemistry
BI5.3	Describe the digestion and absorption of dietary proteins	Biochemistry
BI5.4	Describe common disorders associated with protein metabolism	Biochemistry
BI5.5	Interpret laboratory results of analytes associated with metabolism of proteins	Biochemistry
BI6.1	Discuss the metabolic processes that take place in specific organs in the body in the fed and fasting states	Biochemistry
BI6.10	Enumerate and describe the disorders associated with mineral metabolism	Biochemistry
BI6.11	Describe the functions of haem in the body and describe the processes involved in its metabolism and describe porphyrin metabolism	Biochemistry
BI6.12	Describe the major types of haemoglobin and its derivatives found in the body and their physiological/ pathological relevance	Biochemistry

BI6.13	Describe the functions of the kidney, liver, thyroid and adrenal glands	Biochemistry
BI6.14	Describe the tests that are commonly done in clinical practice to assess the functions of these organs (kidney, liver, thyroid and adrenal glands)	Biochemistry
BI6.15	Describe the abnormalities of kidney, liver, thyroid and adrenal glands.	Biochemistry
BI6.2	Describe and discuss the metabolic processes in which nucleotides are involved.	Metabolism and homeostasis
BI6.3	Describe the common disorders associated with nucleotide metabolism.	Biochemistry
BI6.4	Discuss the laboratory results of analytes associated with gout & Lesch Nyhan syndrome	Biochemistry
BI6.5	Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency	Biochemistry
BI6.6	Describe the biochemical processes involved in generation of energy in cells.	Metabolism and homeostasis
BI6.7	Describe the processes involved in maintenance of normal pH, water & electrolyte balance of body fluids and the derangements associated with these	Biochemistry
BI6.8	Discuss and interpret results of Arterial Blood Gas (ABG) analysis in various disorders	Biochemistry
BI6.9	Describe the functions of various minerals in the body, their metabolism and homeostasis	Biochemistry
BI7.1	Describe the structure and functions of DNA and RNA and outline the cell cycle.	Molecular biology
BI7.2	Describe the processes involved in replication & repair of DNA and the transcription & translation mechanisms.	Molecular biology
BI7.3	Describe gene mutations and basic mechanism of regulation of gene expression	Biochemistry
BI7.4	Describe applications of recombinant DNA technology, PCR in the diagnosis and treatment of diseases with genetic basis	Biochemistry
BI7.5	Describe the role of xenobiotics in disease	Molecular biology
BI7.6	Describe the anti-oxidant defence systems in the body.	Molecular biology

BI7.7	Describe the role of oxidative stress in the pathogenesis of conditions such as cancer, complications of diabetes mellitus and atherosclerosis	Biochemistry
BI8.1	Discuss the importance of various dietary components and explain importance of dietary fibre	Biochemistry
BI8.2	Describe the types and causes of protein energy malnutrition and its effects	Biochemistry
BI8.3	Provide dietary advice for optimal health in childhood and adult, in disease conditions like diabetes mellitus, coronary artery disease and in pregnancy.	Biochemistry
BI8.4	Describe the causes (including dietary habits), effects and health risks associated with being overweight/ obesity	Biochemistry
BI8.5	Summarize the nutritional importance of commonly used items of food including fruits and vegetables.(macro-molecules & its importance)	Biochemistry
BI9.1	List the functions and components of the extracellular matrix (ECM).	Extracellular Matrix
BI9.2	Discuss the involvement of ECM components in health and disease	Biochemistry
BI9.3	Describe protein targeting & sorting along with its associated disorders.	Extracellular Matrix
CM 20.3	Describe any event important to Health of the Community	Recent advances in Community Medicine
CM 20.4	Demonstrate awareness about laws pertaining to practice of medicine such as Clinical establishment Act and Human Organ Transplantation Act and its implications	Recent advances in Community Medicine
CM1.1	Define and describe the concept of Public Health	Concept of Health and Disease
CM1.10	Demonstrate the important aspects of the doctor patient relationship in a simulated environment	Concept of Health and Disease
CM1.2	Define health; describe the concept of holistic health including concept of spiritual health and the relativeness & determinants of health	Concept of Health and Disease

CM1.3	Describe the characteristics of agent, host and environmental factors in health and disease and the multi factorial etiology of disease	Concept of Health and Disease
CM1.4	Describe and discuss the natural history of disease	Concept of Health and Disease
CM1.5	Describe the application of interventions at various levels of prevention	Concept of Health and Disease
CM1.6	Describe and discuss the concepts, the principles of Health promotion and Education, IEC and Behavioral change communication (BCC)	Concept of Health and Disease
CM1.7	Enumerate and describe health indicators	Concept of Health and Disease
CM1.8	Describe the Demographic profile of India and discuss its impact on health	Concept of Health and Disease
CM1.9	Demonstrate the role of effective Communication skills in health in a simulated environment	Concept of Health and Disease
CM10.1	Describe the current status of Reproductive, maternal, newborn and Child Health	Reproductive maternal and child health
CM10.2	Enumerate and describe the methods of screening high risk groups and common health problems	Reproductive maternal and child health
CM10.3	Describe local customs and practices during pregnancy, childbirth, lactation and child feeding practices	Reproductive maternal and child health
CM10.4	Describe the reproductive, maternal, newborn & child health (RMCH); child survival and safe motherhood interventions	Reproductive maternal and child health
CM10.5	Describe Universal Immunization Program; Integrated Management of Neonatal and Childhood Illness (IMNCI) and other existing Programs.	Reproductive maternal and child health
CM10.6	Enumerate and describe various family planning methods, their advantages and shortcomings	Reproductive maternal and child health
CM10.7	Enumerate and describe the basis and principles of the Family Welfare Program including the organization, technical and operational aspects	Reproductive maternal and child health

CM10.8	Describe the physiology, clinical management and principles of adolescent health including ARSH	Reproductive maternal and child health
CM10.9	Describe and discuss gender issues and women empowerment	Reproductive maternal and child health
CM11.1	Enumerate and describe the presenting features of patients with occupational illness including agriculture	Occupational Health
CM11.2	Describe the role, benefits and functioning of the employees state insurance scheme	Occupational Health
CM11.3	Enumerate and describe specific occupational health hazards, their risk factors and preventive measures	Occupational Health
CM11.4	Describe the principles of ergonomics in health preservation	Occupational Health
CM11.5	Describe occupational disorders of health professionals and their prevention & management	Occupational Health
CM12.1	Define and describe the concept of Geriatric services	Geriatric services
CM12.2	Describe health problems of aged population	Geriatric services
CM12.3	Describe the prevention of health problems of aged population	Geriatric services
CM12.4	Describe National program for elderly	Geriatric services
CM13.1	Define and describe the concept of Disaster management	Disaster Management
CM13.2	Describe disaster management cycle	Disaster Management
CM13.3	Describe man made disasters in the world and in India	Disaster Management
CM13.4	Describe the details of the National Disaster management Authority	Disaster Management
CM14.1	Define and classify hospital waste	Hospital waste management
CM14.2	Describe various methods of treatment of hospital waste	Hospital waste management
CM14.3	Describe laws related to hospital waste management	Hospital waste management

CM15.1	Define and describe the concept of mental Health	Mental Health
CM15.2	Describe warning signals of mental health disorder	Mental Health
CM15.3	Describe National Mental Health program	Mental Health
CM16.1	Define and describe the concept of Health planning	Health planning and management
CM16.2	Describe planning cycle	Health planning and management
CM16.3	Describe Health management techniques	Health planning and management
CM16.4	Describe health planning in India and National policies related to health and health planning	Health planning and management
CM17.1	Define and describe the concept of health care to community	Health care of the communtiy
CM17.2	Describe community diagnosis	Health care of the communtiy
CM17.3	Describe primary health care, its components and principles	Health care of the communtiy
CM17.4	Describe National policies related to health and health planning and millennium development goals	Health care of the communtiy
CM17.5	Describe health care delivery in India	Health care of the communtiy
CM18.1	Define and describe the concept of International health	International Health
CM18.2	Describe roles of various international health agencies	International Health
CM19.1	Define and describe the concept of Essential Medicine List (EML)	Essential Medicine
CM19.2	Describe roles of essential medicine in primary health care	Essential Medicine
CM19.3	Describe counterfeit medicine and its prevention	Essential Medicine
CM2.1	Describe the steps and perform clinico socio-cultural and demographic assessment of the individual, family and community	Relationship of social and behavioural to health and disease
CM2.2	Describe the socio-cultural factors, family (types), its role in health and disease & demonstrate in a simulated environment the correct assessment of socio-economic status	Relationship of social and behavioural to health and disease

CM2.3	Describe and demonstrate in a simulated environment the assessment of barriers to good health and health seeking behavior	Relationship of social and behavioural to health and disease
CM2.4	Describe social psychology, community behaviour and community relationship and their impact on health and disease	Relationship of social and behavioural to health and disease
CM2.5	Describe poverty and social security measures and its relationship to health and disease	Relationship of social and behavioural to health and disease
CM20.1	List important public health events of last five years	Recent advances in Community Medicine
CM20.2	Describe various issues during outbreaks and their prevention	Recent advances in Community Medicine
CM3.1	Describe the health hazards of air, water, noise, radiation and pollution	Environmental Health Problems
CM3.2	Describe concepts of safe and wholesome water, sanitary sources of water, water purification processes, water quality standards, concepts of water conservation and rainwater harvesting	Environmental Health Problems
CM3.3	Describe the aetiology and basis of water borne diseases /jaundice/hepatitis/ diarrheal diseases	Environmental Health Problems
CM3.4	Describe the concept of solid waste, human excreta and sewage disposal	Environmental Health Problems
CM3.5	Describe the standards of housing and the effect of housing on health	Environmental Health Problems
CM3.6	Describe the role of vectors in the causation of diseases. Also discuss National Vector Borne disease Control Program	Environmental Health Problems
CM3.7	Identify and describe the identifying features and life cycles of vectors of Public Health importance and their control measures	Environmental Health Problems

CM3.8	Describe the mode of action, application cycle of commonly used insecticides and rodenticides	Environmental Health Problems
CM4.1	Describe various methods of health education with their advantages and limitations	Principles of health promotion and education
CM4.2	Describe the methods of organizing health promotion and education and counselling activities at individual family and community settings	Principles of health promotion and education
CM4.3	Demonstrate and describe the steps in evaluation of health promotion and education program	Principles of health promotion and education
CM5.1	Describe the common sources of various nutrients and special nutritional requirements according to age, sex, activity, physiological conditions	Nutrition
CM5.2	Describe and demonstrate the correct method of performing a nutritional assessment of individuals, families and the community by using the appropriate method	Nutrition
CM5.3	Define and describe common nutrition related health disorders (including macro-PEM, Micro-iron, Zn, iodine, Vit. A), their control and management	Nutrition
CM5.4	Plan and recommend a suitable diet for the individuals and families based on local availability of foods and economic status, etc in a simulated environment	Nutrition
CM5.5	Describe the methods of nutritional surveillance, principles of nutritional education and rehabilitation in the context of socio- cultural factors.	Nutrition
CM5.6	Enumerate and discuss the National Nutrition Policy, important national nutritional Programs including the Integrated Child Development Services Scheme (ICDS) etc	Nutrition
CM5.7	Describe food hygiene	Nutrition

CM5.8	Describe and discuss the importance and methods of food fortification and effects of additives and adulteration	Nutrition
CM6.1	Formulate a research question for a study	Basic statistics and its applications
CM6.2	Describe and discuss the principles and demonstrate the methods of collection, classification, analysis, interpretation and presentation of statistical data	Basic statistics and its applications
CM6.3	Describe, discuss and demonstrate the application of elementary statistical methods including test of significance in various study designs	Basic statistics and its applications
CM6.4	Enumerate, discuss and demonstrate Common sampling techniques, simple statistical methods, frequency distribution, measures of central tendency and dispersion	Basic statistics and its applications
CM7.1	Define Epidemiology and describe and enumerate the principles, concepts and uses	Epidemiology
CM7.2	Enumerate, describe and discuss the modes of transmission and measures for prevention and control of communicable and non- communicable diseases	Epidemiology
CM7.3	Enumerate, describe and discuss the sources of epidemiological data	Epidemiology
CM7.4	Define, calculate and interpret morbidity and mortality indicators based on given set of data	Epidemiology
CM7.5	Enumerate, define, describe and discuss epidemiological study designs	Epidemiology
CM7.6	Enumerate and evaluate the need of screening tests	Epidemiology
CM7.7	Describe and demonstrate the steps in the Investigation of an epidemic of communicable disease and describe the principles of control measures	Epidemiology
CM7.8	Describe the principles of association, causation and biases in epidemiological studies	Epidemiology
CM7.9	Describe and demonstrate the application of computers in epidemiology	Epidemiology

CM8.1	Describe and discuss the epidemiological and control measures including the use of essential laboratory tests at the primary care level for communicable diseases	Epidemiology of communicable and non- communicable diseases
CM8.2	Describe and discuss the epidemiological and control measures including the use of essential laboratory tests at the primary care level for Non Communicable diseases (diabetes, Hypertension, Stroke, obesity and cancer etc.)	Epidemiology of communicable and non- communicable diseases
CM8.3	Enumerate and describe disease specific National Health Programs including their prevention and treatment of a case	Epidemiology of communicable and non- communicable diseases
CM8.4	Describe the principles and enumerate the measures to control a disease epidemic	Epidemiology of communicable and non- communicable diseases
CM8.5	Describe and discuss the principles of planning, implementing and evaluating control measures for disease at community level bearing in mind the public health importance of the disease	Epidemiology of communicable and non- communicable diseases
CM8.6	Educate and train health workers in disease surveillance, control & treatment and health education	Epidemiology of communicable and non- communicable diseases
CM8.7	Describe the principles of management of information systems	Epidemiology of communicable and non- communicable diseases
CM9.1	Define and describe the principles of Demography, Demographic cycle, Vital statistics	Demography and vital statistics

CM9.2	Define, calculate and interpret demographic indices including birth rate, death rate, fertility rates	Demography and vital statistics
CM9.3	Enumerate and describe the causes of declining sex ratio and its social and health implications	Demography and vital statistics
CM9.4	Enumerate and describe the causes and consequences of population explosion and population dynamics of India.	Demography and vital statistics
CM9.5	Describe the methods of population control	Demography and vital statistics
CM9.6	Describe the National Population Policy	Demography and vital statistics
CM9.7	Enumerate the sources of vital statistics including census, SRS, NFHS, NSSO etc	Demography and vital statistics
CT1.1	Describe and discuss the epidemiology of tuberculosis and its impact on the work, life and economy of India	Respiratory Medicine
CT1.10	Perform and interpret an AFB stain	Tuberculosis
CT1.11	Assist in the performance, outline the correct tests that require to be performed and interpret the results of a pleural fluid aspiration	Tuberculosis
CT1.12	Enumerate the indications for tests including: serology, special cultures and polymerase chain reaction and sensitivity testing	Tuberculosis
CT1.13	Describe and discuss the origin, indications, technique of administration, efficacy and complications of the BCG vaccine	Tuberculosis
CT1.14	Describe and discuss the pharmacology of various anti-tuberculous agents, their indications, contraindications, interactions and adverse reactions	Tuberculosis
CT1.15	Prescribe an appropriate antituberculosis regimen based on the location of disease, smear positivity and negativity and co- morbidities based on current national guidelines including directly observed tuberculosis therapy (DOTS)	Respiratory Medicine
CT1.16	Describe the appropriate precautions, screening, testing and indications for chemoprophylaxis for contacts and exposed health care workers	Respiratory Medicine

CT1.17	Define criteria for the cure of Tuberculosis; describe and recognise the features of drug resistant tuberculosis, prevention and therapeutic regimens	Tuberculosis
CT1.18	Educate health care workers on national programs of Tuberculosis and administering and monitoring the DOTS program	Respiratory Medicine
CT1.19	Communicate with patients and family in an empathetic manner about the diagnosis, therapy	Tuberculosis
CT1.2	Describe and discuss the microbiology of tubercle bacillus, mode of transmission, pathogenesis, clinical evolution and natural history of pulmonary and extra pulmonary forms (including lymph node, bone and CNS)	Tuberculosis
CT1.3	Discuss and describe the impact of co-infection with HIV and other co-morbid conditions. Like diabetes on the natural history of tuberculosis	Tuberculosis
CT1.4	Describe the epidemiology, the predisposing factors and microbial and therapeutic factors that determine resistance to drugs	Respiratory Medicine
CT1.5	Elicit, document and present an appropriate medical history that includes risk factor, contacts, symptoms including cough and fever CNS and other manifestations	Tuberculosis
CT1.6	Demonstrate and perform a systematic examination that establishes the diagnosis based on the clinical presentation that includes a a) general examination, b) examination of the chest and lung including loss of volume, mediastinal shift, percussion and auscultation (including DOAP session of lung sounds and added sounds) c) examination of the lymphatic system and d) relevant CNS examination	Tuberculosis
CT1.7	Perform and interpret a PPD (mantoux) and describe and discuss the indications and pitfalls of the test	Tuberculosis
CT1.8	Generate a differential diagnosis based on the clinical history and evolution of the disease that prioritises the most likely diagnosis	Tuberculosis

CT1.9	Order and interpret diagnostic tests based on the clinical presentation including: CBC, Chest X ray PA view, Mantoux, sputum culture and sensitivity, pleural fluid examination and culture, HIV testing	Tuberculosis
CT2.1	Define and classify obstructive airway disease	Obstructive airway disease
CT2.10	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	Obstructive airway disease
CT2.11	Describe, discuss and interpret pulmonary function tests	Obstructive airway disease
CT2.12	Perform and interpret peak expiratory flow rate	Obstructive airway disease
CT2.13	Describe the appropriate diagnostic work up based on the presumed aetiology	Obstructive airway disease
CT2.14	Enumerate the indications for and interpret the results of : pulse oximetry, ABG, Chest Radiograph	Obstructive airway disease
CT2.15	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	Obstructive airway disease
CT2.16	Discuss and describe therapies for OAD including bronchodilators, leukotriene inhibitors, mast cell stabilisers, theophylline, inhaled and systemic steroids, oxygen and immunotherapy	Obstructive airway disease
CT2.17	Describe and discuss the indications for vaccinations in OAD	Obstructive airway disease
CT2.18	Develop a therapeutic plan including use of bronchodilators and inhaled corticosteroids	Obstructive airway disease
CT2.19	Develop a management plan for acute exacerbations including bronchodilators, systemic steroids, antimicrobial therapy	Obstructive airway disease
CT2.2	Describe and discuss the epidemiology, risk factors and evolution of obstructive airway disease	Obstructive airway disease
CT2.20	Describe and discuss the principles and use of oxygen therapy in the hospital and at home	Obstructive airway disease
CT2.21	Describe discuss and counsel patients appropriately on smoking cessation	Obstructive airway disease

CT2.22	Demonstrate and counsel patient on the correct use of inhalers	Obstructive airway disease
CT2.23	Communicate diagnosis treatment plan and subsequent follow up plan to patients	Obstructive airway disease
CT2.24	Recognise the impact of OAD on patient's quality of life, well being, work and family	Respiratory Medicine
CT2.25	Discuss and describe the impact of OAD on the society and workplace	Respiratory Medicine
CT2.26	Discuss and describe preventive measures to reduce OAD in workplaces	Respiratory Medicine
CT2.27	Demonstrate an understanding of patient's inability to change working, living and environmental factors that influence progression of airway disease	Respiratory Medicine
CT2.28	Demonstrate an understanding for the difficulties faced by patients during smoking cessation	Obstructive airway disease
CT2.3	Enumerate and describe the causes of acute episodes in patients with obstructive airway disease	Obstructive airway disease
CT2.4	Describe and discuss the physiology and pathophysiology of hypoxia and hypercapneia	Obstructive airway disease
CT2.5	Describe and discuss the genetics of alpha 1 antitrypsin deficiency in emphysema	Obstructive airway disease
CT2.6	Describe the role of the environment in the cause and exacerbation of obstructive airway disease	Obstructive airway disease
CT2.7	Describe and discuss allergic and non-allergic precipitants of obstructive airway disease	Obstructive airway disease
CT2.8	Elicit document and present a medical history that will differentiate the aetiologies of obstructive airway disease, severity and precipitants	Obstructive airway disease
CT2.9	Perform a systematic examination that establishes the diagnosis and severity that includes measurement of respiratory rate, level of respiratory distress, effort tolerance, breath sounds, added sounds, identification of signs of consolidation pleural effusion and pneumothorax	Obstructive airway disease
DE1.1	Enumerate the parts of the tooth	Dental Caries

DE1.2	Discuss the role of causative microorganisms in the aetio- pathogenesis of dental caries	Dental Caries
DE1.3	Identify Dental caries	Dental Caries
DE1.4	Discuss the role of dental caries as a focus of sepsis	Dentistry
DE1.5	Counsel patients with respect to oral hygiene, diet and the direct bearing on systemic health	Dental Caries
DE2.1	Discuss the various causes for partial /complete loss of teeth and associated structures	Edentulous state
DE2.2	Discuss the local and systemic sequelae of the above	Edentulous state
DE2.3	Identify complete complement of teeth and identify missing teeth	Edentulous state
DE2.4	Enumerate common ways of restoring the edentulous state	Edentulous state
DE2.5	Counsel patients on the importance of restoring missing teeth/tissues with respect to the benefits on oral and systemic health.	Edentulous state
DE3.1	Aware of malocclusion and the tissues that cause it	Malocclusion
DE3.2	Enumerate the impact of malocclusion on aesthetics, health	Malocclusion
DE3.3	Identify malocclusion	Malocclusion
DE3.4	Counsel patients with respect to correction of malocclusion and the role it might have on oral health specifically on the TMJ	Malocclusion
DE4.1	Discuss the prevalence of oral cancer and enumerate the common types of cancer that can affect tissues of the oral cavity	Dentistry
DE4.2	Discuss the role of etiological factors in the formation of precancerous /cancerous lesions	Dentistry
DE4.3	Identify potential pre-cancerous /cancerous lesions	Dentistry
DE4.4	Counsel patients to risks of oral cancer with respect to tobacco, smoking, alcohol and other causative factors	Dentistry
DE5.1	Enumerate the parts of the tooth and supporting structures	Periodontal disease

DE5.2	Enumerate the common diseases that affect the periodontium and identify local and systemic causative factors	Periodontal disease
DE5.3	Identify Periodontal disease	Periodontal disease
DE5.4	Discuss the role of Periodontal disease as a focus of sepsis	Periodontal disease
DE5.5	Counsel patients with respect to oral hygiene, diet and the direct bearing on systemic health and vice versa	Periodontal disease
DR1.1	Enumerate the causative and risk factors of acne	Acne
DR1.2	Identify and grade the various common types of acne	Acne
DR1.3	Describe the treatment and preventive measures for various kinds of acne	Acne
DR10.1	Identify and classify syphilis based on the presentation and clinical manifestations	Dermatology, Venereology & Leprosy
DR10.10	Describe the etiology, diagnostic and clinical features and management of gonococcal and non gonococcal urethritis	Dermatology, Venereology & Leprosy
DR10.11	Describe the etiology, diagnostic and clinical features and management of vaginal discharge	Sexually Transmitted Diseases
DR10.2	Identify spirochete in a dark ground microscopy	Sexually Transmitted Diseases
DR10.3	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for syphilis	Dermatology, Venereology & Leprosy
DR10.4	Describe the prevention of congenital syphilis	Dermatology, Venereology & Leprosy
DR10.5	Counsel in a non-judgemental and empathetic manner patients on prevention of sexually transmitted diseases	Dermatology, Venereology & Leprosy
DR10.6	Describe the etiology, diagnostic and clinical features of non- syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)	Dermatology, Venereology & Leprosy

DR10.7	Identify and differentiate based on the clinical features non-syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)	Dermatology, Venereology & Leprosy
DR10.8	Enumerate the indications and describe the pharmacology, indications and adverse reactions of drugs used in the non-syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)	Dermatology, Venereology & Leprosy
DR10.9	Describe the syndromic approach to ulcerative sexually transmitted disease	Dermatology, Venereology & Leprosy
DR11.1	Describe the etiology, pathogenesis and clinical features of the dermatologic manifestations of HIV and its complications including opportunistic infections	Dermatology, Venereology & Leprosy
DR11.2	Identify and distinguish the dermatologic manifestations of HIV its complications, opportunistic infections and adverse reactions	Dermatology, Venereology & Leprosy
DR11.3	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for dermatologic lesions in HIV	Dermatology, Venereology & Leprosy
DR12.1	Describe the aetiopathogenesis of eczema	Dermatitis and Eczema
DR12.2	Identify eczema and differentiate it from lichenification and changes of aging	Dermatitis and Eczema
DR12.3	Classify and grade eczema	Dermatitis and Eczema
DR12.4	Enumerate the indications and describe the pharmacology, indications and adverse reactions of drugs used in the treatment of eczema	Dermatitis and Eczema
DR12.5	Define erythroderma. Enumerate and identify the causes of erythroderma. Discuss the treatment	Dermatitis and Eczema
DR12.6	Identify and distinguish exfoliative dermatitis from other skin lesions	Dermatitis and Eczema
DR12.7	Identify and distinguish fixed drug eruptions and Steven Johnson syndrome from other skin lesions	Dermatology, Venereology & Leprosy

DR13.1	Distinguish bulla from vesicles	Vesicubullous Lesions
DR13.2	Demonstrate the Tzanck test, nikolsky sign and bulla spread sign	Vesicubullous Lesions
DR13.3	Calculate the body surface area of involvement of vesiculobullous lesions	Vesicubullous Lesions
DR14.1	Describe the etiology, pathogenesis and clinical precipitating features and classification of Urticaria and angioedema	Urticaria Angioedema
DR14.2	Identify and distinguish urticarial from other skin lesions	Urticaria Angioedema
DR14.3	Demonstrate dermographism	Urticaria Angioedema
DR14.4	Identify and distinguish angioedema from other skin lesions	Urticaria Angioedema
DR14.5	Enumerate the indications and describe the pharmacology indications and adverse reactions of drugs used in the urticaria and angioedema	Urticaria Angioedema
DR15.1	Identify and distinguish folliculitis impetigo and carbuncle from other skin lesions	Pyoderma
DR15.2	Identify staphylococcus on a gram stain	Pyoderma
DR15.3	Enumerate the indications and describe the pharmacology, indications and adverse reactions of topical and systemic drugs used in treatment of pyoderma	Pyoderma
DR15.4	Enumerate the indications for surgical referral	Pyoderma
DR16.1	Identify and distinguish skin lesions of SLE	Dermatology, Venereology & Leprosy
DR16.2	Identify and distinguish Raynaud's phenomenon	Dermatology, Venereology & Leprosy
DR17.1	Enumerate and identify the cutaneous findings in vitamin A deficiency	Dermatology, Venereology & Leprosy
DR17.2	Enumerate and describe the various skin changes in Vitamin B complex deficiency	Dermatology, Venereology & Leprosy

DR17.3	Enumerate and describe the various changes in Vitamin C deficiency	Dermatology, Venereology & Leprosy
DR17.4	Enumerate and describe the various changes in Zinc deficiency	Dermatology, Venereology & Leprosy
DR18.1	Enumerate the cutaneous features of Type 2 diabetes	Dermatology, Venereology & Leprosy
DR18.2	Enumerate the cutaneous features of hypo- & hyperthyroidism	Dermatology, Venereology & Leprosy
DR2.1	Identify and differentiate vitiligo from other causes of hypopigmented lesions	Vitiligo
DR2.2	Describe the treatment of vitiligo	Vitiligo
DR3.1	Identify and distinguish psoriatic lesions from other causes	Papulosquamous disorders
DR3.2	Demonstrate the grattage test	Papulosquamous disorders
DR3.3	Enumerate the indications for and describe the various modalities of treatment of psoriasis including topical, systemic and phototherapy	Papulosquamous disorders
DR4.1	Identify and distinguish lichen planus lesions from other causes	Lichen Planus
DR4.2	Enumerate and describe the treatment modalities for lichen planus	Lichen Planus
DR5.1	Describe the etiology, microbiology, pathogenesis, natural history, clinical features, presentations and complications of scabies	Dermatology, Venereology & Leprosy
DR5.2	Identify and differentiate scabies from other lesions	Dermatology, Venereology & Leprosy
DR5.3	Enumerate and describe the pharmacology, administration and adverse reaction of pharmacotherapies for scabies	Dermatology, Venereology & Leprosy
DR6.1	Describe the etiology, pathogenesis and diagnostic features of pediculosis	Dermatology, Venereology & Leprosy

DR6.2	Identify and differentiate pediculosis from other skin lesions	Dermatology, Venereology & Leprosy
DR7.1	Describe the etiology, microbiology, pathogenesis, clinical presentations and diagnostic features of dermatophytes	Dermatology, Venereology & Leprosy
DR7.2	Identify Candida species in fungal scrapings and KOH mount	Fungal Infections
DR7.3	Describe the pharmacology and action of antifungal (systemic and topical) agents. Enumerate side effects of antifungal therapy	Fungal Infections
DR8.1	Describe the etiology, microbiology, pathogenesis, clinical presentations and diagnostic features of common viral infections of the skin	Dermatology, Venereology & Leprosy
DR8.2	Identify and distinguish herpes simplex and herpes labialis from other skin lesions	Viral infections
DR8.3	Identify and distinguish herpes zoster and varicella from other skin lesions	Viral infections
DR8.4	Identify and distinguish viral warts from other skin lesions	Viral infections
DR8.5	Identify and distinguish molluscum contagiosum from other skin lesions	Viral infections
DR8.6	Enumerate the indications, describe the procedure and perform a Tzanck smear	Viral infections
DR8.7	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for common viral illnesses of the skin	Viral infections
DR9.1	Classify, describe the epidemiology, etiology, microbiology pathogenesis and clinical presentations and diagnostic features of Leprosy	Dermatology, Venereology & Leprosy
DR9.2	Demonstrate (and classify based on) the clinical features of leprosy including an appropriate neurologic examination	Dermatology, Venereology & Leprosy
DR9.3	Enumerate the indications and observe the performance of a slit skin smear in patients with leprosy	Leprosy

DR9.4	Enumerate, describe and identify lepra reactions and supportive measures and therapy of lepra reactions	Dermatology, Venereology & Leprosy
DR9.5	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for various classes of leprosy based on national guidelines	Dermatology, Venereology & Leprosy
DR9.6	Describe the treatment of Leprosy based on the WHO guidelines	Dermatology, Venereology & Leprosy
DR9.7	Enumerate and describe the complications of leprosy and its management, including understanding disability and stigma.	Dermatology, Venereology & Leprosy
EN1.1	Describe the Anatomy & physiology of ear, nose, throat, head & neck	Anatomy and Physiology of ear, nose, throat, head & neck
EN1.2	Describe the pathophysiology of common diseases in ENT	Anatomy and Physiology of ear, nose, throat, head & neck
EN2.1	Elicit document and present an appropriate history in a patient presenting with an ENT complaint	Clinical Skills
EN2.10	Identify and describe the use of common instruments used in ENT surgery	Clinical Skills
EN2.11	Describe and identify by clinical examination malignant & pre- malignant ENT diseases	Clinical Skills
EN2.12	Counsel and administer informed consent to patients and their families in a simulated environment	Clinical Skills
EN2.13	Identify, resuscitate and manage ENT emergencies in a simulated environment (including tracheostomy, anterior nasal packing, removal of foreign bodies in ear, nose, throat and upper respiratory tract)	Clinical Skills

EN2.14	Demonstrate the correct technique to instilling topical medications into the ear, nose and throat in a simulated environment	Clinical Skills
EN2.15	Describe the national programs for prevention of deafness, cancer, noise & environmental pollution	Clinical Skills
EN2.2	Demonstrate the correct use of a headlamp in the examination of the ear, nose and throat	Clinical Skills
EN2.3	Demonstrate the correct technique of examination of the ear including Otoscopy	Clinical Skills
EN2.4	Demonstrate the correct technique of performance and interpret tuning fork tests	Clinical Skills
EN2.5	Demonstrate the correct technique of examination of the nose & paranasal sinuses including the use of nasal speculum	Clinical Skills
EN2.6	Demonstrate the correct technique of examining the throat including the use of a tongue depressor	Clinical Skills
EN2.7	Demonstrate the correct technique of examination of neck including elicitation of laryngeal crepitus	Clinical Skills
EN2.8	Demonstrate the correct technique to perform and interpret pure tone audiogram & impedance audiogram	Clinical Skills
EN2.9	Choose correctly and interpret radiological, microbiological & histological investigations relevant to the ENT disorders	Clinical Skills
EN3.1	Observe and describe the indications for and steps involved in the performance of Otomicroscopic examination in a simulated environment	Diagnostic and Therapeutic procedures in ENT
EN3.2	Observe and describe the indications for and steps involved in the performance of diagnostic nasal Endoscopy	Diagnostic and Therapeutic procedures in ENT
EN3.3	Observe and describe the indications for and steps involved in the performance of Rigid/Flexible Laryngoscopy	Diagnostic and Therapeutic procedures in ENT
EN3.4	Observe and describe the indications for and steps involved in the removal of foreign bodies from ear, nose & throat	Diagnostic and Therapeutic procedures in ENT

EN3.5	Observe and describe the indications for and steps involved in the surgical procedures in ear, nose & throat	Diagnostic and Therapeutic procedures in ENT
EN3.6	Observe and describe the indications for and steps involved in the skills of emergency procedures in ear, nose & throat	Diagnostic and Therapeutic procedures in ENT
EN4.1	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Otalgia	Management of diseases of ear, nose & throat
EN4.10	Observe and describe the indications for and steps involved in myringotomy and myringoplasty	Management of diseases of ear, nose & throat
EN4.11	Enumerate the indications describe the steps and observe a mastoidectomy	Management of diseases of ear, nose & throat
EN4.12	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Hearing loss	Management of diseases of ear, nose & throat
EN4.13	Describe the clinical features, investigations and principles of management of Otosclerosis	Management of diseases of ear, nose & throat
EN4.14	Describe the clinical features, investigations and principles of management of Sudden Sensorineural Hearing Loss	Management of diseases of ear, nose & throat
EN4.15	Describe the clinical features, investigations and principles of management of Noise Induced Hearing Loss	Management of diseases of ear, nose & throat
EN4.16	Observe and describe the indications for and steps involved in the performance of pure tone audiometry	Management of diseases of ear, nose & throat
EN4.17	Enumerate the indications and interpret the results of an audiogram	Management of diseases of ear, nose & throat
EN4.18	Describe the clinical features, investigations and principles of management of Facial Nerve palsy	Management of diseases of ear, nose & throat

EN4.19	Describe the clinical features, investigations and principles of management of Vertigo	Management of diseases of ear, nose & throat
EN4.2	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of diseases of the external Ear	Management of diseases of ear, nose & throat
EN4.20	Describe the clinical features, investigations and principles of management of Meniere's Disease	Management of diseases of ear, nose & throat
EN4.21	Describe the clinical features, investigations and principles of management of Tinnitus	Management of diseases of ear, nose & throat
EN4.22	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Nasal Obstruction	Management of diseases of ear, nose & throat
EN4.23	Describe the clinical features, investigations and principles of management of DNS	Management of diseases of ear, nose & throat
EN4.24	Enumerate the indications observe and describe the steps in a septoplasty	Management of diseases of ear, nose & throat
EN4.25	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Nasal Polyps	Management of diseases of ear, nose & throat
EN4.26	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Adenoids	Management of diseases of ear, nose & throat

EN4.27	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Allergic Rhinitis	Management of diseases of ear, nose & throat
EN4.28	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Vasomotor Rhinitis	Management of diseases of ear, nose & throat
EN4.29	Elicit, document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Acute & Chronic Rhinitis	Management of diseases of ear, nose & throat
EN4.3	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of ASOM	Management of diseases of ear, nose & throat
EN4.30	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Epistaxis	Management of diseases of ear, nose & throat
EN4.31	Describe the clinical features, investigations and principles of management of trauma to the face & neck	Management of diseases of ear, nose & throat
EN4.32	Describe the clinical features, investigations and principles of management of nasopharyngeal Angiofibroma	Management of diseases of ear, nose & throat
EN4.33	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Acute & Chronic Sinusitis	Management of diseases of ear, nose & throat
EN4.34	Describe the clinical features, investigations and principles of management of Tumors of Maxilla	Management of diseases of ear, nose & throat

EN4.35	Describe the clinical features, investigations and principles of management of Tumors of Nasopharynx	Management of diseases of ear, nose & throat
EN4.36	Describe the clinical features, investigations and principles of management of diseases of the Salivary glands	Management of diseases of ear, nose & throat
EN4.37	Describe the clinical features, investigations and principles of management of Ludwig's angina	Management of diseases of ear, nose & throat
EN4.38	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of type of dysphagia	Management of diseases of ear, nose & throat
EN4.39	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Acute & Chronic Tonsillitis	Management of diseases of ear, nose & throat
EN4.4	Demonstrate the correct technique to hold visualize and assess the mobility of the tympanic membrane and its mobility and interpret and diagrammatically represent the findings	Management of diseases of ear, nose & throat
EN4.40	Observe and describe the indications for and steps involved in a tonsillectomy / adenoidectomy	Management of diseases of ear, nose & throat
EN4.41	Describe the clinical features, investigations and principles of management of Acute & chronic abscesses in relation to Pharynx	Management of diseases of ear, nose & throat
EN4.42	Elicit, document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of hoarseness of voice	Management of diseases of ear, nose & throat
EN4.43	Describe the clinical features, investigations and principles of management of Acute & Chronic Laryngitis	Management of diseases of ear, nose & throat

EN4.44	Describe the clinical features, investigations and principles of management of Benign lesions of the vocal cord	Management of diseases of ear, nose & throat
EN4.45	Describe the clinical features, investigations and principles of management of Vocal cord palsy	Management of diseases of ear, nose & throat
EN4.46	Describe the clinical features, investigations and principles of management of Malignancy of the Larynx & Hypopharynx	Management of diseases of ear, nose & throat
EN4.47	Describe the clinical features, investigations and principles of management of Stridor	Management of diseases of ear, nose & throat
EN4.48	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Airway Emergencies	Management of diseases of ear, nose & throat
EN4.49	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of foreign bodies in the air & food passages	Management of diseases of ear, nose & throat
EN4.5	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of OME	Management of diseases of ear, nose & throat
EN4.50	Observe and describe the indications for and steps involved in tracheostomy	Management of diseases of ear, nose & throat
EN4.51	Observe and describe the care of the patient with a tracheostomy	Management of diseases of ear, nose & throat
EN4.52	Describe the Clinical features, Investigations and principles of management of diseases of Oesophagus	Management of diseases of ear, nose & throat
EN4.53	Describe the Clinical features, Investigations and principles of management of HIV manifestations of the ENT	Otorhinolaryngology (ENT)

EN4.6	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Discharging ear	Management of diseases of ear, nose & throat
EN4.7	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of CSOM	Management of diseases of ear, nose & throat
EN4.8	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of CSOM	Management of diseases of ear, nose & throat
EN4.9	Demonstrate the correct technique for syringing wax from the ear in a simulated environment	Management of diseases of ear, nose & throat
FM 2.15	Describe special protocols for conduction of medico-legal autopsies in cases of death in custody or following violation of human rights as per National Human Rights Commission Guidelines	Forensic Pathology
FM1.1	Demonstrate knowledge of basics of Forensic Medicine like definitions of Forensic medicine, Clinical Forensic Medicine, Forensic Pathology, State Medicine, Legal Medicine and Medical Jurisprudence	General Information
FM1.10	Select appropriate cause of death in a particular scenario by referring ICD 10 code	General Information
FM1.11	Write a correct cause of death certificate as per ICD 10 document	General Information
FM1.2	Describe history of Forensic Medicine	General Information
FM1.3	Describe legal procedures including Criminal Procedure Code, Indian Penal Code, Indian Evidence Act, Civil and Criminal Cases, Inquest (Police Inquest and Magistrate's Inquest), Cognizable and Non-cognizable offences	General Information

FM1.4	Describe Courts in India and their powers: Supreme Court, High Court, Sessions court, Magistrate's Court, Labour Court, Family Court, Executive Magistrate Court and Juvenile Justice Board	General Information
FM1.5	Describe Court procedures including issue of Summons, conduct money, types of witnesses, recording of evidence oath, affirmation, examination in chief, cross examination, re-examination and court questions, recording of evidence & conduct of doctor in witness box	General Information
FM1.6	Describe Offenses in Court including Perjury; Court strictures vis-a- vis Medical Officer	General Information
FM1.7	Describe Dying Declaration & Dying Deposition	General Information
FM1.8	Describe the latest decisions/notifications/resolutions/ circulars/standing orders related to medico-legal practice issued by Courts/Government authorities etc.	General Information

FM1.9	Describe the importance of documentation in medical practice in regard to medicolegal examinations, Medical Certificates and medicolegal reports especially – maintenance of patient case records, discharge summary, prescribed registers to be maintained in Health Centres. -- maintenance of medico-legal register like accident register. - documents of issuance of wound certificate - documents of issuance of drunkenness certificate. - documents of issuance of sickness and fitness certificate. - documents for issuance of death certificate. - documents of Medical Certification of Cause of Death - Form Number4 and 4A - documents for estimation of age by physical, dental and radiological examination and issuance of certificate	Forensic Medicine & Toxicology
FM10.1	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to: i. Antipyretics – Paracetamol, Salicylates ii. Anti-Infectives (Common antibiotics – an overview) iii. Neuropsychotoxicology Barbiturates, benzodiazepines, phenytoin, lithium, haloperidol, neuroleptics, tricyclics iv. Narcotic Analgesics, Anaesthetics, and Muscle Relaxants v. Cardiovascular Toxicology Cardiotoxic plants – oleander, odollam, aconite, digitalis vi. Gastro-Intestinal and Endocrinal Drugs – Insulin	Forensic Medicine & Toxicology

FM11.1	Describe features and management of Snake bite, scorpion sting, bee and wasp sting and spider bite	Forensic Medicine & Toxicology
FM12.1	Describe features and management of abuse/poisoning with following camicals: Tobacco, cannabis, amphetamines, cocaine, hallucinogens, designer drugs& solvent	Forensic Medicine & Toxicology
FM13.1	Describe toxic pollution of environment, its medico-legal aspects & toxic hazards of occupation and industry	Forensic Medicine & Toxicology
FM13.2	Describe medico-legal aspects of poisoning in Workman's Compensation Act	Toxicology : Environmental Toxicology
FM14.1	Examine and prepare Medico-legal report of an injured person with different etiologies in a simulated/ supervised environment	Skills in Forensic Medicine & Toxicology
FM14.10	Demonstrate ability to identify & prepare medicolegal inference from specimens obtained from various types of injuries e.g. contusion, abrasion, laceration, firearm wounds, burns, head injury and fracture of bone	Skills in Forensic Medicine & Toxicology
FM14.11	To identify & describe weapons of medicolegal importance which are commonly used e.g. lathi, knife, kripan, axe, gandasa, gupti, farsha, dagger, bhalla, razor & stick. Able to prepare report of the weapons brought by police and to give opinion regarding injuries present on the person as described in injury report/ PM report so as to connect weapon with the injuries. (Prepare injury report/ PM report must be provided to connect the weapon with the injuries)	Skills in Forensic Medicine & Toxicology
FM14.12	Describe the contents and structure of bullet and cartridges used & to provide medico-legal interpretation from these	Skills in Forensic Medicine & Toxicology
FM14.13	To estimate the age of foetus by post-mortem examination	Skills in Forensic Medicine & Toxicology

FM14.14	To examine & prepare report of an alleged accused in rape/unnatural sexual offence in a simulated/ supervised environment	Skills in Forensic Medicine & Toxicology
FM14.15	To examine & prepare medico-legal report of a victim of sexual offence/unnatural sexual offence in a simulated/ supervised environment	Skills in Forensic Medicine & Toxicology
FM14.16	To examine & prepare medico-legal report of drunk person in a simulated/ supervised environment	Skills in Forensic Medicine & Toxicology
FM14.17	To identify & draw medico-legal inference from common poisons e.g. dhatura, castor, cannabis, opium, aconite copper sulphate, pesticides compounds, marking nut, oleander, Nux vomica, abrus seeds, Snakes, capsicum, calotropis, lead compounds & tobacco.	Skills in Forensic Medicine & Toxicology
FM14.18	To examine & prepare medico-legal report of a person in police, judicial custody or referred by Court of Law and violation of human rights as requirement of NHRC, who has been brought for medical examination	Skills in Forensic Medicine & Toxicology
FM14.19	To identify & prepare medico-legal inference from histo-pathological slides of Myocardial Infarction, pneumonitis, tuberculosis, brain infarct, liver cirrhosis, brain haemorrhage, bone fracture, Pulmonary oedema, brain oedema, soot particles, diatoms & wound healing	Skills in Forensic Medicine & Toxicology
FM14.2	Demonstrate the correct technique of clinical examination in a suspected case of poisoning & prepare medico-legal report in a simulated/ supervised environment	Forensic Medicine & Toxicology
FM14.20	To record and certify dying declaration in a simulated/ supervised environment	Skills in Forensic Medicine & Toxicology
FM14.21	To collect, preserve, seal and dispatch exhibits for DNA-Finger printing using various formats of different laboratories.	Skills in Forensic Medicine & Toxicology

FM14.22	To give expert medical/ medico-legal evidence in Court of law	Skills in Forensic Medicine & Toxicology
FM14.3	Assist and demonstrate the proper technique in collecting, preserving and dispatch of the exhibits in a suspected case of poisoning, along with clinical examination .	Forensic Medicine & Toxicology
FM14.4	Conduct and prepare report of estimation of age of a person for medico-legal and other purposes & prepare medico-legal report in a simulated/ supervised environment	Skills in Forensic Medicine & Toxicology
FM14.5	Conduct & prepare post-mortem examination report of varied etiologies (at least 15) in a simulated/ supervised environment	Skills in Forensic Medicine & Toxicology
FM14.6	Demonstrate and interpret medico-legal aspects from examination of hair (human & animal) fibre, semen & other biological fluids	Skills in Forensic Medicine & Toxicology
FM14.7	Demonstrate & identify that a particular stain is blood and identify the species of its origin.	Forensic Medicine & Toxicology
FM14.8	Demonstrate the correct technique to perform and identify ABO & Rh blood group of a person.	Forensic Medicine & Toxicology
FM14.9	Demonstrate examination of & present an opinion after examination of skeletal remains in a simulated/ supervised environment	Skills in Forensic Medicine & Toxicology
FM2.1	Define, describe and discuss death and its types including somatic/clinical/cellular, molecular and brain-death, Cortical death and Brainstem death	Forensic Medicine & Toxicology
FM2.10	Discuss estimation of time since death	Forensic Pathology
FM2.11	Describe and discuss autopsy procedures including post- mortem examination, different types of autopsies, aims and objectives of post-mortem examination	Forensic Medicine & Toxicology
FM2.12	Describe the legal requirements to conduct post-mortem examination and procedures to conduct medico-legal post- mortem examination	Forensic Medicine & Toxicology
FM2.13	Describe and discuss obscure autopsy	Forensic Medicine & Toxicology

FM2.14	Describe and discuss examination of clothing, preservation of viscera on post-mortem examination for chemical analysis and other medico-legal purposes, post-mortem artefacts	Forensic Pathology
FM2.16	Describe and discuss examination of mutilated bodies or fragments, charred bones and bundle of bones	Forensic Pathology
FM2.17	Describe and discuss exhumation	Forensic Pathology
FM2.18	Crime Scene Investigation:- Describe and discuss the objectives of crime scene visit, the duties & responsibilities of doctors on crime scene and the reconstruction of sequence of events after crime scene investigation	Forensic Pathology
FM2.19	Investigation of anaesthetic, operative deaths:Describe and discuss special protocols for conduction of autopsy and for collection, preservation and dispatch of related material evidences	Forensic Medicine & Toxicology
FM2.2	Describe and discuss natural and unnatural deaths	Forensic Medicine & Toxicology
FM2.20	Mechanical asphyxia: Define, classify and describe asphyxia and medico-legal interpretation of post-mortem findings in asphyxial deaths	Forensic Pathology
FM2.21	Mechanical asphyxia: Describe and discuss different types of hanging and strangulation including clinical findings, causes of death, post-mortem findings and medico-legal aspects of death due to hanging and strangulation including examination, preservation and dispatch of ligature material	Forensic Pathology
FM2.22	Mechanical asphyxia: Describe and discuss patho-physiology, clinical features, post- mortem findings and medico-legal aspects of traumatic asphyxia, obstruction of nose & mouth, suffocation and sexual asphyxia	Forensic Pathology

FM2.23	Describe and discuss types, patho-physiology, clinical features, post mortem findings and medico-legal aspects of drowning, diatom test and, gettler test.	Forensic Pathology
FM2.24	Thermal deaths: Describe the clinical features, post-mortem finding and medicolegal aspects of injuries due to physical agents like heat (heat-hyper-pyrexia, heat stroke, sun stroke, heat exhaustion/prostration, heat cramps [miner's cramp] or cold (systemic and localized hypothermia, frostbite, trench foot, immersion foot)	Forensic Pathology
FM2.25	Describe types of injuries, clinical features, patho-physiology, post- mortem findings and medico-legal aspects in cases of burns, scalds, lightening, electrocution and radiations.	Forensic Medicine & Toxicology
FM2.26	Describe and discuss clinical features, post-mortem findings and medico-legal aspects of death due to starvation and neglect	Forensic Pathology
FM2.27	Define and discuss infanticide, foeticide and stillbirth	Forensic Medicine & Toxicology
FM2.28	Describe and discuss signs of intrauterine death, signs of live birth, viability of foetus, age determination of foetus, DOAP session of ossification centres, Hydrostatic test, Sudden infants death syndrome and Munchausen's syndrome by proxy	Forensic Medicine & Toxicology
FM2.29	Demonstrate respect to the directions of courts, while appearing as witness for recording of evidence under oath or affirmation, examination in chief, cross examination, re-examination and court questions, recording of evidence	Forensic Pathology
FM2.3	Describe and discuss issues related to sudden natural deaths	Forensic Medicine & Toxicology

FM2.30	Have knowledge/awareness of latest decisions/notifications/ resolutions/circulars/standing orders related to medico-legal practice issued by Courts/Government authorities etc	Forensic Pathology
FM2.31	Demonstrate ability to work in a team for conduction of medico-legal autopsies in cases of death following alleged negligence medical dowry death, death in custody or following violation of human rights as per National Human Rights Commission Guidelines on exhumation	Forensic Pathology
FM2.32	Demonstrate ability to exchange information by verbal, or nonverbal communication to the peers, family members, law enforcing agency and judiciary	Forensic Pathology
FM2.33	Demonstrate ability to use local resources whenever required like in mass disaster situations	Forensic Medicine & Toxicology
FM2.34	Demonstrate ability to use local resources whenever required like in mass disaster situations	Forensic Medicine & Toxicology
FM2.35	Demonstrate professionalism while conducting autopsy in medicolegal situations, interpretation of findings and making inference/opinion, collection preservation and dispatch of biological or trace evidences	Forensic Pathology
FM2.4	Describe salient features of the Organ Transplantation and The Human Organ Transplant (Amendment) Act 2011 and discuss ethical issues regarding organ donation	Forensic Pathology
FM2.5	Discuss moment of death, modes of death- coma, asphyxia and syncope	Forensic Medicine & Toxicolog
FM2.6	Discuss presumption of death and survivorship	Forensic Pathology
FM2.7	Describe and discuss suspended animation	Forensic Pathology
FM2.8	Describe and discuss postmortem changes including signs of death, cooling of body, post-mortem lividity, rigor mortis, cadaveric spasm, cold stiffening and heat stiffening	Forensic Pathology
FM2.9	Describe putrefaction, mummification, adipocere and maceration	Forensic Pathology

FM3.1	Identification Define and describe Corpus Delicti, establishment of identity of living persons including race, Sex, religion, complexion, stature, age determination using morphology, teeth-eruption, decay, bite marks, bones- ossification centres, medico-legal aspects of age.	Forensic Medicine & Toxicology
FM3.10	Firearm injuries: Describe and discuss wound ballistics-different types of firearm injuries, blast injuries and their interpretation, preservation and dispatch of trace evidences in cases of firearm and blast injuries, various tests related to confirmation of use of firearms	Forensic Medicine & Toxicology
FM3.11	Regional Injuries: Describe and discuss regional injuries to head (Scalp wounds, fracture skull, intracranial haemorrhages, coup and contrecoup injuries), neck, chest, abdomen, limbs, genital organs, spinal cord and skeleton	Forensic Medicine & Toxicology
FM3.12	Regional Injuries: Describe and discuss injuries related to fall from height and vehicular injuries – Primary and Secondary impact, Secondary injuries, crush syndrome, railway spine.	Forensic Medicine & Toxicology
FM3.13	Describe different types of sexual offences. Describe various sections of IPC regarding rape including definition of rape (Section 375 IPC), Punishment for Rape (Section 376 IPC) and recent amendments notified till date.	Forensic Medicine & Toxicology
FM3.14	SEXUAL OFFENCES Describe and discuss the examination of the victim of an alleged case of rape, and the preparation of report, framing the opinion and preservation and despatch of trace evidences in such cases	Forensic Medicine & Toxicolog

FM3.15	SEXUAL OFFENCES Describe and discuss examination of accused and victim of sodomy, preparation of report, framing of opinion, preservation and despatch of trace evidences in such cases	Forensic Medicine & Toxicolog
FM3.16	SEXUAL OFFENCES Describe and discuss adultery and unnatural sexual offences- sodomy, incest, lesbianism, buccal coitus, bestiality, indecent assault and preparation of report, framing the opinion and preservation and despatch of trace evidences in such cases	Forensic Medicine & Toxicolog
FM3.17	Describe and discuss the sexual perversions fetichism, transvestism, voyeurism, sadism, necrophagia, masochism, exhibitionism, frotteurism, Necrophilia	Forensic Medicine & Toxicology
FM3.18	Describe anatomy of male and female genitalia, hymen and its types. Discuss the medico-legal importance of hymen. Define virginity, defloration, legitimacy and its medicolegal importance.	Forensic Medicine & Toxicology
FM3.19	Discuss the medicolegal aspects of pregnancy and delivery, signs of pregnancy, precipitate labour superfoetation, superfecundation and signs of recent and remote delivery in living and dead	Forensic Medicine & Toxicology
FM3.2	IDENTIFICATION Describe and discuss identification of criminals, unknown persons, dead bodies from the remains- hairs, fibers, teeth, anthropometry, dactylography, foot prints, scars, tattoos, poroscopy and superimposition	Clinical Forensic Medicine
FM3.20	Discuss disputed paternity and maternity	Forensic Medicine & Toxicology
FM3.21	Discuss Pre-conception and Pre Natal Diagnostic Techniques (PCPNDT)- Prohibition of Sex Selection Act 2003 and Domestic Violence Act 2005	Forensic Medicine & Toxicology

FM3.22	Define and discuss impotence, sterility, frigidity, sexual dysfunction, premature ejaculation. Discuss the causes of impotence and sterility in male and female	Forensic Medicine & Toxicology
FM3.23	Discuss Sterilization of male and female, artificial insemination, Test Tube Baby, surrogate mother, hormonal replacement therapy with respect to appropriate national and state laws	Forensic Medicine & Toxicology
FM3.24	Discuss the relative importance of surgical methods of contraception (vasectomy and tubectomy) as methods of contraception in the national family Planning Programme	Forensic Medicine & Toxicology
FM3.25	Discuss the major results of the National Family Health Survey	Forensic Medicine & Toxicology
FM3.26	Discuss the National Guidelines for accreditation, supervision & regulation of ART Clinics in India	Forensic Medicine & Toxicology
FM3.27	Define, classify and discuss abortion, methods of procuring MTP and criminal abortion and complication of abortion: MTP Act 1971	Forensic Medicine & Toxicology
FM3.28	Describe evidences of abortion - living and dead, duties of doctor in cases of abortion, investigations of death due to criminal abortion	Forensic Medicine & Toxicology
FM3.29	Describe and discuss child abuse and battered baby syndrome	Forensic Medicine & Toxicology
FM3.3	Mechanical injuries and wounds: Define, describe and classify different types of mechanical injuries, abrasion, bruise, laceration, stab wound, incised wound, chop wound, defense wound, self-inflicted/fabricated wounds and their medico-legal aspects.	Forensic Medicine & Toxicology
FM3.30	Describe and discuss issues relating to torture, identification of injuries caused by torture and its sequalae, management of torture survivors	Clinical Forensic Medicine
FM3.31	Torture and Human rights Describe and discuss guidelines and Protocols of National Human Rights Commission regarding torture	Clinical Forensic Medicine

FM3.32	Demonstrate the professionalism while preparing reports in medicolegal situations, interpretation of findings and making inference/opinion, collection preservation and dispatch of biological or trace evidences	Clinical Forensic Medicine
FM3.33	Should be able to demonstrate the professionalism while dealing with victims of torture and human right violations, sexual assaults- psychological consultation, rehabilitation	Clinical Forensic Medicine
FM3.4	Mechanical injuries and wounds: define injury, assault & hurt. Describe IPC pertaining to injuries	Forensic Medicine & Toxicology
FM3.5	Mechanical injuries and wounds: Describe accidental, suicidal and homicidal injuries. Describe simple, grievous and dangerous injuries. Describe ante-mortem and post-mortem injuries	Clinical Forensic Medicine
FM3.6	Mechanical injuries and wounds:Describe healing of injury and fracture of bones with its medico-legal importance	Forensic Medicine & Toxicology
FM3.7	Describe factors influencing infliction of injuries and healing, examination and certification of wounds and wound as a cause of death: Primary and Secondary.	Forensic Medicine & Toxicology
FM3.8	Mechanical injuries and wounds:Describe and discuss different types of weapons including dangerous weapons and their examination.	Forensic Medicine & Toxicology
FM3.9	Firearm injuries:Describe different types of firearms including structure and components, along with description of ammunition propellant charge and mechanism of fire-arms, different types of cartridges and bullets and various terminology in relation of firearm – caliber, range, choking.	Forensic Medicine & Toxicology
FM4.1	Describe Medical Ethics and explain its historical emergence	Medical Jurisprudence (Medical Law and ethics)

FM4.10	Describe communication between doctors, public and media	Medical Jurisprudence (Medical Law and ethics)
FM4.11	Describe and discuss euthanasia	Forensic Medicine & Toxicology
FM4.12	Discuss legal and ethical issues in relation to stem cell research	Forensic Medicine & Toxicology
FM4.13	Describe social aspects of Medico-legal cases with respect to victims of assault, rape, attempted suicide, homicide, domestic violence, dowry- related cases	Medical Jurisprudence (Medical Law and ethics)
FM4.14	Describe & discuss the challenges in managing medico-legal cases including development of skills in relationship management – Human behaviour, communication skills, conflict resolution techniques	Medical Jurisprudence (Medical Law and ethics)
FM4.15	Describe the principles of handling pressure – definition, types, causes, sources and skills for managing the pressure while dealing with medico-legal cases by the doctor	Medical Jurisprudence (Medical Law and ethics)
FM4.16	Describe and discuss Bioethics	Medical Jurisprudence (Medical Law and ethics)
FM4.17	Describe and discuss ethical Principles: Respect for autonomy, non-malfeasance, beneficence & justice	Forensic Medicine & Toxicology
FM4.18	Describe and discuss medical negligence including civil and criminal negligence, contributory negligence, corporate negligence, vicarious liability, Res Ipsa Loquitor, prevention of medical negligence and defenses in medical negligence litigations	Medical Jurisprudence (Medical Law and ethics)

FM4.19	Define Consent. Describe different types of consent and ingredients of informed consent. Describe the rules of consent and importance of consent in relation to age, emergency situation, mental illness and alcohol intoxication	Medical Jurisprudence (Medical Law and ethics)
FM4.2	Describe the Code of Medical Ethics 2002 conduct, Etiquette and Ethics in medical practice and unethical practices & the dichotomy	Medical Jurisprudence (Medical Law and ethics)
FM4.20	Describe therapeutic privilege, Malingering, Therapeutic Misadventure, Professional Secrecy, Human Experimentation	Medical Jurisprudence (Medical Law and ethics)
FM4.21	Describe Products liability and Medical Indemnity Insurance	Medical Jurisprudence (Medical Law and ethics)
FM4.22	Explain Oath – Hippocrates, Charaka and Sushruta and procedure for administration of Oath	Forensic Medicine & Toxicology
FM4.23	Describe the modified Declaration of Geneva and its relevance	Forensic Medicine & Toxicology
FM4.24	Enumerate rights, privileges and duties of a Registered Medical Practitioner. Discuss doctor-patient relationship: professional secrecy and privileged communication	Medical Jurisprudence (Medical Law and ethics)
FM4.25	Clinical research & Ethics: Discuss human experimentation including clinical trials	Forensic Medicine & Toxicology
FM4.26	Discuss the constitution and functions of ethical committees	Forensic Medicine & Toxicology
FM4.27	Describe and discuss Ethical Guidelines for Biomedical Research on Human Subjects & Animals	Forensic Medicine & Toxicology
FM4.28	Demonstrate respect to laws relating to medical practice and Ethical code of conduct prescribed by Medical Council of India and rules and regulations prescribed by it from time to time	Medical Jurisprudence (Medical Law and ethics)

FM4.29	Demonstrate ability to communicate appropriately with media, public and doctors	Medical Jurisprudence (Medical Law and ethics)
FM4.3	Describe the functions and role of Medical Council of India and State Medical Councils	Medical Jurisprudence (Medical Law and ethics)
FM4.30	Demonstrate ability to conduct research in pursuance to guidelines or research ethics	Medical Jurisprudence (Medical Law and ethics)
FM4.4	Describe the Indian Medical Register	Medical Jurisprudence (Medical Law and ethics)
FM4.5	Rights/privileges of a medical practitioner, penal erasure, infamous conduct, disciplinary Committee, disciplinary procedures, warning notice and penal erasure	Medical Jurisprudence (Medical Law and ethics)
FM4.6	Describe the Laws in Relation to medical practice and the duties of a medical practitioner towards patients and society	Medical Jurisprudence (Medical Law and ethics)
FM4.7	Describe and discuss the ethics related to HIV patients	Medical Jurisprudence (Medical Law and ethics)
FM4.8	Describe the Consumer Protection Act-1986 (Medical Indemnity Insurance, Civil Litigations and Compensations), Workman's Compensation Act & ESI Act	Medical Jurisprudence (Medical Law and ethics)
FM4.9	Describe the medico - legal issues in relation to family violence, violation of human rights, NHRC and doctors	Medical Jurisprudence (Medical Law and ethics)

FM5.1	Classify common mental illnesses including post-traumatic stress disorder (PTSD)	Forensic Medicine & Toxicology
FM5.2	Define, classify and describe delusions, hallucinations, illusion, lucid interval and obsessions with exemplification	Forensic Medicine & Toxicology
FM5.3	Describe civil and criminal responsibilities of a mentally ill person	Forensic Medicine & Toxicology
FM5.4	Differentiate between true insanity from feigned insanity	Forensic Medicine & Toxicology
FM5.5	Describe & discuss Delirium tremens	Forensic Medicine & Toxicology
FM5.6	Describe the Indian Mental Health Act, 1987 with special reference to admission, care and discharge of a mentally ill person	Forensic Medicine & Toxicology
FM6.1	Describe different types of specimens and tissues to be collected both in the living and dead: body fluids (blood, urine, semen, faeces, saliva), skin, nails, tooth pulp, vaginal smear, viscera, skull, specimen for histo-pathological examination, blood grouping, HLA Typing and DNA Fingerprinting. Describe Locard's Exchange Principle	Forensic Medicine & Toxicology
FM6.2	Describe the methods of sample collection, preservation, labelling, dispatch, and interpretation of reports	Forensic Laboratory investigation in medical legal practice
FM6.3	Demonstrate professionalism while sending the biological or trace evidences to Forensic Science laboratory, specifying the required tests to be carried out, objectives of preservation of evidences sent for examination, personal discussions on interpretation of findings	Forensic Laboratory investigation in medical legal practice

FM7.1	Enumerate the indications and describe the principles and appropriate use for: - DNA profiling - Facial reconstruction - Polygraph (Lie Detector) - Narcoanalysis, - Brain Mapping, - Digital autopsy, - Virtual Autopsy, - Imaging technologies	Emerging technologies in Forensic Medicine
FM8.1	Describe the history of Toxicology	Forensic Medicine & Toxicology
FM8.10	Describe the general principles of Analytical Toxicology and give a brief description of analytical methods available for toxicological analysis: Chromatography – Thin Layer Chromatography, Gas Chromatography, Liquid Chromatography and Atomic Absorption Spectroscopy	Toxicology: General Toxicology
FM8.2	Define the terms Toxicology, Forensic Toxicology, Clinical Toxicology and poison	Forensic Medicine & Toxicology
FM8.3	Describe the various types of poisons, Toxicokinetics & Toxicodynamics and diagnosis of poisoning in living and dead	Forensic Medicine & Toxicology
FM8.4	Describe the Laws in relations to poisons including NDPS Act, Medico-legal aspects of poisons	Forensic Medicine & Toxicology
FM8.5	Describe Medico-legal autopsy in cases of poisoning including preservation and dispatch of viscera for chemical analysis	Forensic Medicine & Toxicology
FM8.6	Describe the general symptoms, principles of diagnosis and management of common poisons encountered in India.	Forensic Medicine & Toxicology
FM8.7	Describe simple Bedside clinic tests to detect poison/drug in a patient's body fluids	Forensic Medicine & Toxicology

FM8.8	Describe basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination	Forensic Medicine & Toxicology
FM8.9	Describe the procedure of intimation of suspicious cases or actual cases of foul play to the police, maintenance of records, preservation and despatch of relevant samples for laboratory analysis.	Toxicology: General Toxicology
FM9.1	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to: Caustics Inorganic – sulphuric, nitric, and hydrochloric acids Organic- Carboloic Acid (phenol), Oxalic and acetylsalicylic acids .	Forensic Medicine & Toxicology
FM9.2	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to Phosphorus, Iodine, Barium	Forensic Medicine & Toxicology
FM9.3	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to Arsenic, lead, mercury, copper, iron, cadmium and thallium	Forensic Medicine & Toxicology
FM9.4	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to Ethanol, methanol, ethylene glycol	Forensic Medicine & Toxicology

FM9.5	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to Organophosphates, Carbamates, Organochlorines, Pyrethroids, Paraquat, Aluminium and Zinc phosphide	Forensic Medicine & Toxicology
FM9.6	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, procedures of enhanced elimination with regard to Ammonia, carbon monoxide, hydrogen cyanide & derivatives, methyl isocyanate, tear (riot control) gases	Forensic Medicine & Toxicology
IM1.1	Describe and discuss the epidemiology, pathogenesis clinical evolution and course of common causes of heart disease including: rheumatic/ valvular, ischemic, hypertrophic inflammatory	Heart Failure
IM1.10	Elicit document and present an appropriate history that will establish the diagnosis, cause and severity of heart failure including: presenting complaints, precipitating and exacerbating factors, risk factors exercise tolerance, changes in sleep patterns, features suggestive of infective endocarditis	Heart Failure
IM1.11	Perform and demonstrate a systematic examination based on the history that will help establish the diagnosis and estimate its severity including: measurement of pulse, blood pressure and respiratory rate, jugular venous forms and pulses, peripheral pulses, conjunctiva and fundus, lung, cardiac examination including palpation and auscultation with identification of heart sounds and murmurs, abdominal distension and splenic palpation	Heart Failure

IM1.12	Demonstrate peripheral pulse, volume, character, quality and variation in various causes of heart failure	Heart Failure
IM1.13	Measure the blood pressure accurately, recognise and discuss alterations in blood pressure in valvular heart disease and other causes of heart failure and cardiac tamponade	Heart Failure
IM1.14	Demonstrate and measure jugular venous distension	Heart Failure
IM1.15	Identify and describe the timing, pitch quality conduction and significance of precordial murmurs and their variations	Heart Failure
IM1.16	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis	Heart Failure
IM1.17	Order and interpret diagnostic testing based on the clinical diagnosis including 12 lead ECG, Chest radiograph, blood cultures	Heart Failure
IM1.18	Perform and interpret a 12 lead ECG	Heart Failure
IM1.19	Enumerate the indications for and describe the findings of heart failure with the following conditions including: 2D echocardiography, brain natriuretic peptide, exercise testing, nuclear medicine testing and coronary angiogram	Heart Failure
IM1.2	Describe and discuss the genetic basis of some forms of heart failure	Heart Failure
IM1.20	Determine the severity of valvular heart disease based on the clinical and laboratory and imaging features and determine the level of intervention required including surgery	Heart Failure
IM1.21	Describe and discuss and identify the clinical features of acute and subacute endocarditis, echocardiographic findings, blood culture and sensitivity and therapy	Heart Failure
IM1.22	Assist and demonstrate the proper technique in collecting specimen for blood culture	Heart Failure

IM1.23	Describe, prescribe and communicate non pharmacologic management of heart failure including sodium restriction, physical activity and limitations	Heart Failure
IM1.24	Describe and discuss the pharmacology of drugs including indications, contraindications in the management of heart failure including diuretics, ACE inhibitors, Beta blockers, aldosterone antagonists and cardiac glycosides	Heart Failure
IM1.25	Enumerate the indications for valvuloplasty, valvotomy, coronary revascularization and cardiac transplantation	Heart Failure
IM1.26	Develop document and present a management plan for patients with heart failure based on type of failure, underlying aetiology	Heart Failure
IM1.27	Describe and discuss the role of penicillin prophylaxis in the prevention of rheumatic heart disease	Heart Failure
IM1.28	Enumerate the causes of adult presentations of congenital heart disease and describe the distinguishing features between cyanotic and acyanotic heart disease	Heart Failure
IM1.29	Elicit document and present an appropriate history, demonstrate correctly general examination, relevant clinical findings and formulate document and present a management plan for an adult patient presenting with a common form of congenital heart disease	Heart Failure
IM1.3	Describe and discuss the aetiology microbiology pathogenies and clinical evolution of rheumatic fever, criteria, degree of rheumatic activity and rheumatic valvular heart disease and its complications including infective endocarditis	Heart Failure
IM1.30	Administer an intramuscular injection with an appropriate explanation to the patient	Heart Failure
IM1.4	Stage heart failure	Heart Failure
IM1.5	Describe ,discuss and differentiate the processes involved in R Vs L heart failure, systolic vs diastolic failure	Heart Failure

IM1.6	Describe and discuss the compensatory mechanisms involved in heart failure including cardiac remodelling and neurohormonal adaptations	Heart Failure
IM1.7	Enumerate, describe and discuss the factors that exacerbate heart , , , , dietary factors drugs etc.	Heart Failure
IM1.8	Describe and discuss the pathogenesis and development of common arrythmias involved in heart failure particularly atrial fibrillation	Heart Failure
IM1.9	Describe and discuss the clinical presentation and features, diagnosis, recognition and management of acute rheumatic fever	Heart Failure
IM10.1	Define, describe and differentiate between acute and chronic renal failure	Acute Kidney Injury and Chronic renal failure
IM10.10	Describe and discuss the association between CKD glycemia and hypertension	Acute Kidney Injury and Chronic renal failure
IM10.11	Describe and discuss the relationship between CAD risk factors and CKD and in dialysis	Acute Kidney Injury and Chronic renal failure
IM10.12	Elicit document and present a medical history that will differentiate the aetiologies of disease, distinguish acute and chronic disease, identify predisposing conditions, nephrotoxic drugs and systemic causes	Acute Kidney Injury and Chronic renal failure
IM10.13	Perform a systematic examination that establishes the diagnosis and severity including determination of volume status, presence of edema and heart failure, features of uraemia and associated systemic disease	Acute Kidney Injury and Chronic renal failure
IM10.14	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	Acute Kidney Injury and Chronic renal failure

IM10.15	Describe the appropriate diagnostic work up based on the presumed aetiology	Acute Kidney Injury and Chronic renal failure
IM10.16	Enumerate the indications for and interpret the results of : renal function tests, calcium, phosphorus, PTH, urine electrolytes, osmolality, Anion gap	Acute Kidney Injury and Chronic renal failure
IM10.17	Describe and calculate indices of renal function based on available laboratories including FENa (Fractional Excretion of Sodium) and CrCl (Creatinine Clearance)	Acute Kidney Injury and Chronic renal failure
IM10.18	Identify the ECG findings in hyperkalemia	Acute Kidney Injury and Chronic renal failure
IM10.19	Enumerate the indications and describe the findings in renal ultrasound	Acute Kidney Injury and Chronic renal failure
IM10.2	Classify, describe and differentiate the pathophysiologic causes of acute renal failure	Acute Kidney Injury and Chronic renal failure
IM10.20	Describe and discuss the indications to perform arterial blood gas analysis: interpret the data	Acute Kidney Injury and Chronic renal failure
IM10.21	Describe and discuss the indications for and insert a peripheral intravenous catheter	Acute Kidney Injury and Chronic renal failure
IM10.22	Describe and discuss the indications, demonstrate in a model and assist in the insertion of a central venous or a dialysis catheter	Acute Kidney Injury and Chronic renal failure
IM10.23	Communicate diagnosis treatment plan and subsequent follow up plan to patients	Acute Kidney Injury and Chronic renal failure
IM10.24	Counsel patients on a renal diet	Acute Kidney Injury and Chronic renal failure

IM10.25	Identify and describe the priorities in the management of ARF including diet, volume management, alteration in doses of drugs, monitoring and indications for dialysis	Acute Kidney Injury and Chronic renal failure
IM10.26	Describe and discuss supportive therapy in CKD including diet, anti hypertensives, glycemic therapy, dyslipidemia, anemia, hyperkalemia, hyperphosphatemia and secondary hyperparathyroidism	Acute Kidney Injury and Chronic renal failure
IM10.27	Describe and discuss the indications for renal dialysis	Acute Kidney Injury and Chronic renal failure
IM10.28	Describe and discuss the indications for renal replacement therapy	Acute Kidney Injury and Chronic renal failure
IM10.29	Describe discuss and communicate the ethical and legal issues involved in renal replacement therapy	Acute Kidney Injury and Chronic renal failure
IM10.3	Describe the pathophysiology and causes of pre renal ARF, renal and post renal ARF	Acute Kidney Injury and Chronic renal failure
IM10.30	Recognise the impact of CKD on patient's quality of life well being work and family	Acute Kidney Injury and Chronic renal failure
IM10.31	Incorporate patient preferences in to the care of CKD	Acute Kidney Injury and Chronic renal failure
IM10.4	Describe the evolution, natural history and treatment of ARF	Acute Kidney Injury and Chronic renal failure
IM10.5	Describe and discuss the aetiology of CRF	Acute Kidney Injury and Chronic renal failure
IM10.6	Stage Chronic Kidney Disease	Acute Kidney Injury and Chronic renal failure

IM10.7	Describe and discuss the pathophysiology and clinical findings of uraemia	Acute Kidney Injury and Chronic renal failure
IM10.8	Classify, describe and discuss the significance of proteinuria in CKD	Acute Kidney Injury and Chronic renal failure
IM10.9	Describe and discuss the pathophysiology of anemia and hyperparathyroidism in CKD	Acute Kidney Injury and Chronic renal failure
IM11.1	Define and classify diabetes	Diabetes Mellitus
IM11.10	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	Diabetes Mellitus
IM11.11	Order and interpret laboratory tests to diagnose diabetes and its complications including: glucoses, glucose tolerance test, glycosylated hemoglobin, urinary micro albumin, ECG, electrolytes, ABG, ketones, renal function tests and lipid profile	Diabetes Mellitus
IM11.12	Perform and interpret a capillary blood glucose test	Diabetes Mellitus
IM11.13	Perform and interpret a urinary ketone estimation with a dipstick	Diabetes Mellitus
IM11.14	Recognise the presentation of hypoglycaemia and outline the principles on its therapy	Diabetes Mellitus
IM11.15	Recognise the presentation of diabetic emergencies and outline the principles of therapy	Diabetes Mellitus
IM11.16	Discuss and describe the pharmacologic therapies for diabetes their indications, contraindications, adverse reactions and interactions	Diabetes Mellitus
IM11.17	Outline a therapeutic approach to therapy of T2Diabetes based on presentation, severity and complications in a cost effective manner	Diabetes Mellitus

IM11.18	Describe and discuss the pharmacology, indications, adverse reactions and interactions of drugs used in the prevention and treatment of target organ damage and complications of Type II Diabetes including neuropathy, nephropathy, retinopathy, hypertension, dyslipidemia and cardiovascular disease	Diabetes Mellitus
IM11.19	Demonstrate and counsel patients on the correct technique to administer insulin	Diabetes Mellitus
IM11.2	Describe and discuss the epidemiology and pathogenesis and risk factors and clinical evolution of type 1 diabetes	Diabetes Mellitus
IM11.20	Demonstrate to and counsel patients on the correct technique of self monitoring of blood glucoses	Diabetes Mellitus
IM11.21	Recognise the importance of patient preference while selecting therapy for diabetes	Diabetes Mellitus
IM11.22	Enumerate the causes of hypoglycaemia and describe the counter hormone response and the initial approach and treatment	Diabetes Mellitus
IM11.23	Describe the precipitating causes, pathophysiology, recognition, clinical features, diagnosis, stabilisation and management of diabetic ketoacidosis	Diabetes Mellitus
IM11.24	Describe the precipitating causes, pathophysiology, recognition, clinical features, diagnosis, stabilisation and management of Hyperosmolar non ketotic state	Diabetes Mellitus
IM11.3	Describe and discuss the epidemiology and pathogenesis and risk factors economic impact and clinical evolution of type 2 diabetes	Diabetes Mellitus
IM11.4	Describe and discuss the genetic background and the influence of the environment on diabetes	Diabetes Mellitus
IM11.5	Describe and discuss the pathogenesis and temporal evolution of microvascular and macrovascular complications of diabetes	Diabetes Mellitus
IM11.6	Describe and discuss the pathogenesis and precipitating factors, recognition and management of diabetic emergencies	Diabetes Mellitus

IM11.7	Elicit document and present a medical history that will differentiate the aetiologies of diabetes including risk factors, precipitating factors, lifestyle, nutritional history, family history, medication history, co-morbidities and target organ disease	Diabetes Mellitus
IM11.8	Perform a systematic examination that establishes the diagnosis and severity that includes skin, peripheral pulses, blood pressure measurement, fundus examination, detailed examination of the foot (pulses, nervous and deformities and injuries)	Diabetes Mellitus
IM11.9	Describe and recognise the clinical features of patients who present with a diabetic emergency	Diabetes Mellitus
IM12.1	Describe the epidemiology and pathogenesis of hypothyroidism and hyperthyroidism including the influence of iodine deficiency and autoimmunity in the pathogenesis of thyroid disease	Thyroid dysfunction
IM12.10	Identify atrial fibrillation, pericardial effusion and bradycardia on ECG	Thyroid dysfunction
IM12.11	Interpret thyroid function tests in hypo and hyperthyroidism	Thyroid dysfunction
IM12.12	Describe and discuss the iodisation programs of the government of India	General Medicine
IM12.13	Describe the pharmacology, indications, adverse reaction, interactions of thyroxine and antithyroid drugs	Thyroid dysfunction
IM12.14	Write and communicate to the patient appropriately a prescription for thyroxine based on age, sex, and clinical and biochemical status	Thyroid dysfunction
IM12.15	Describe and discuss the indications of thionamide therapy, radio iodine therapy and surgery in the management of thyrotoxicosis	Thyroid dysfunction
IM12.2	Describe and discuss the genetic basis of some forms of thyroid dysfunction	Thyroid dysfunction
IM12.3	Describe and discuss the physiology of the hypothalamopituitary - thyroid axis, principles of thyroid function testing and alterations in physiologic function	Thyroid dysfunction

IM12.4	Describe and discuss the principles of radio iodine uptake in the diagnosis of thyroid disorders	Thyroid dysfunction
IM12.5	Elicit document and present an appropriate history that will establish the diagnosis cause of thyroid dysfunction and its severity	Thyroid dysfunction
IM12.6	Perform and demonstrate a systematic examination based on the history that will help establish the diagnosis and severity including systemic signs of thyrotoxicosis and hypothyroidism, palpation of the pulse for rate and rhythm abnormalities, neck palpation of the thyroid and lymph nodes and cardiovascular findings	Thyroid dysfunction
IM12.7	Demonstrate the correct technique to palpate the thyroid	Thyroid dysfunction
IM12.8	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis	Thyroid dysfunction
IM12.9	Order and interpret diagnostic testing based on the clinical diagnosis including CBC, thyroid function tests and ECG and radio iodine uptake and scan	Thyroid dysfunction
IM13.1	Describe the clinical epidemiology and inherited & modifiable risk factors for common malignancies in India	Common malignancies
IM13.10	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis	Common malignancies
IM13.11	Order and interpret diagnostic testing based on the clinical diagnosis including CBC and stool occult blood and prostate specific antigen	Common malignancies
IM13.12	Describe the indications and interpret the results of Chest X Ray, mammogram, skin and tissue biopsies and tumor markers used in common cancers	Common malignancies
IM13.13	Describe and assess pain and suffering objectively in a patient with cancer	Common malignancies
IM13.14	Describe the indications for surgery, radiation and chemotherapy for common malignancies	Common malignancies

IM13.15	Describe the need, tests involved, their utility in the prevention of common malignancies	Common malignancies
IM13.16	Demonstrate an understanding and needs and preferences of patients when choosing curative and palliative therapy	Common malignancies
IM13.17	Describe and enumerate the indications, use, side effects of narcotics in pain alleviation in patients with cancer	Common malignancies
IM13.18	Describe and discuss the ethical and the medico legal issues involved in end of life care	Common malignancies
IM13.19	Describe the therapies used in alleviating suffering in patients at the end of life	Common malignancies
IM13.2	Describe the genetic basis of selected cancers	Common malignancies
IM13.3	Describe the relationship between infection and cancers	Common malignancies
IM13.4	Describe the natural history, presentation, course, complications and cause of death for common cancers	Common malignancies
IM13.5	Describe the common issues encountered in patients at the end of life and principles of management	Common malignancies
IM13.6	Describe and distinguish the difference between curative and palliative care in patients with cancer	Common malignancies
IM13.7	Elicit document and present a history that will help establish the aetiology of cancer and includes the appropriate risk factors, duration and evolution	Common malignancies
IM13.8	Perform and demonstrate a physical examination that includes an appropriate general and local examination that excludes the diagnosis, extent spread and complications of cancer	Common malignancies
IM13.9	Demonstrate in a mannequin the correct technique for performing breast exam, rectal examination and cervical examination and pap smear	Common malignancies
IM14.1	Define and measure obesity as it relates to the Indian population	Obesity
IM14.10	Describe the indications and interpret the results of tests for secondary causes of obesity	Obesity

IM14.11	Communicate and counsel patient on behavioural, dietary and lifestyle modifications	Obesity
IM14.12	Demonstrate an understanding of patient's inability to adhere to lifestyle instructions and counsel them in a non - judgemental way	Obesity
IM14.13	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for obesity	Obesity
IM14.14	Describe and enumerate the indications and side effects of bariatric surgery	Obesity
IM14.15	Describe and enumerate and educate patients, health care workers and the public on measures to prevent obesity and promote a healthy lifestyle	Obesity
IM14.2	Describe and discuss the aetiology of obesity including modifiable and non-modifiable risk factors and secondary causes	Obesity
IM14.3	Describe and discuss the monogenic forms of obesity	Obesity
IM14.4	Describe and discuss the impact of environmental factors including eating habits, food, work, environment and physical activity on the incidence of obesity	General Medicine
IM14.5	Describe and discuss the natural history of obesity and its complications	Obesity
IM14.6	Elicit and document and present an appropriate history that includes the natural history, dietary history, modifiable risk factors, family history, clues for secondary causes and motivation to lose weight	Obesity
IM14.7	Perform, document and demonstrate a physical examination based on the history that includes general examination, measurement of abdominal obesity, signs of secondary causes and comorbidities	Obesity
IM14.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis	Obesity

IM14.9	Order and interpret diagnostic tests based on the clinical diagnosis including blood glucose, lipids, thyroid function tests etc.	Obesity
IM15.1	Enumerate, describe and discuss the aetiology of upper and lower GI bleeding	GI bleeding
IM15.10	Enumerate the indications for endoscopy, colonoscopy and other imaging procedures in the investigation of Upper GI bleeding	GI bleeding
IM15.11	Develop, document and present a treatment plan that includes fluid resuscitation, blood and blood component transfusion, and specific therapy for arresting blood loss	GI bleeding
IM15.12	Enumerate the indications for whole blood, component and platelet transfusion and describe the clinical features and management of a mismatched transfusion	GI bleeding
IM15.13	Observe cross matching and blood / blood component transfusion	GI bleeding
IM15.14	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy of pressors used in the treatment of Upper GI bleed	GI bleeding
IM15.15	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy of acid peptic disease including Helicobacter pylori	GI bleeding
IM15.16	Enumerate the indications for endoscopic interventions and Surgery	GI bleeding
IM15.17	Determine appropriate level of specialist consultation	GI bleeding
IM15.18	Counsel the family and patient in an empathetic non-judgmental manner on the diagnosis and therapeutic options	GI bleeding
IM15.2	Enumerate, describe and discuss the evaluation and steps involved in stabilizing a patient who presents with acute volume loss and GI bleed	GI bleeding
IM15.3	Describe and discuss the physiologic effects of acute blood and volume loss	GI bleeding

IM15.4	Elicit and document and present an appropriate history that identifies the route of bleeding, quantity, grade, volume loss, duration, etiology, comorbid illnesses and risk factors	GI bleeding
IM15.5	Perform, demonstrate and document a physical examination based on the history that includes general examination, volume assessment and appropriate abdominal examination	GI bleeding
IM15.6	Distinguish between upper and lower gastrointestinal bleeding based on the clinical features	GI bleeding
IM15.7	Demonstrate the correct technique to perform an anal and rectal examination in a mannequin or equivalent	GI bleeding
IM15.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis	GI bleeding
IM15.9	Choose and interpret diagnostic tests based on the clinical diagnosis including complete blood count, PT and PTT, stool examination, occult blood, liver function tests, H.pylori test.	GI bleeding
IM16.1	Describe and discuss the aetiology of acute and chronic diarrhea including infectious and non infectious causes	Diarrheal disorder
IM16.10	Identify vibrio cholera in a hanging drop specimen	Diarrheal disorder
IM16.11	Enumerate the indications for stool cultures and blood cultures in patients with acute diarrhea	Diarrheal disorder
IM16.12	Enumerate and discuss the indications for further investigations including antibodies, colonoscopy, diagnostic imaging and biopsy in the diagnosis of chronic diarrhea	Diarrheal disorder
IM16.13	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for parasitic causes of diarrhea	Diarrheal disorder
IM16.14	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for bacterial and viral diarrhea	Diarrheal disorder
IM16.15	Distinguish based on the clinical presentation Crohn’s disease from Ulcerative Colitis	Diarrheal disorder

IM16.16	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy including immunotherapy	Diarrheal disorder
IM16.17	Describe and enumerate the indications for surgery in inflammatory bowel disease	Diarrheal disorder
IM16.2	Describe and discuss the acute systemic consequences of diarrhea including its impact on fluid balance	Diarrheal disorder
IM16.3	Describe and discuss the chronic effects of diarrhea including malabsorption	Diarrheal disorder
IM16.4	Elicit and document and present an appropriate history that includes the natural history, dietary history, travel , sexual history and other concomitant illnesses	Diarrheal disorder
IM16.5	Perform, document and demonstrate a physical examination based on the history that includes general examination, including an appropriate abdominal examination	Diarrheal disorder
IM16.6	Distinguish between diarrhea and dysentery based on clinical features	Diarrheal disorder
IM16.7	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis	Diarrheal disorder
IM16.8	Choose and interpret diagnostic tests based on the clinical diagnosis including complete blood count, and stool examination	Diarrheal disorder
IM16.9	Identify common parasitic causes of diarrhea under the microscope in a stool specimen	Diarrheal disorder
IM17.1	Define and classify headache and describe the presenting features, precipitating factors, aggravating and relieving factors of various kinds of headache	Headache
IM17.10	Enumerate the indications for emergency care admission and immediate supportive care in patients with headache	Headache
IM17.11	Describe the indications, pharmacology, dose, side effects of abortive therapy in migraine	Headache
IM17.12	Describe the indications, pharmacology, dose, side effects of prophylactic therapy in migraine	Headache

IM17.13	Describe the pharmacology, dose, adverse reactions and regimens of drugs used in the treatment of bacterial, tubercular and viral meningitis	Headache
IM17.14	Counsel patients with migraine and tension headache on lifestyle changes and need for prophylactic therapy	Headache
IM17.2	Elicit and document and present an appropriate history including aura, precipitating aggravating and relieving factors, associated symptoms that help identify the cause of headaches	Headache
IM17.3	Classify migraine and describe the distinguishing features between classical and non classical forms of migraine	Headache
IM17.4	Perform and demonstrate a general neurologic examination and a focused examination for signs of intracranial tension including neck signs of meningitis	Headache
IM17.5	Generate document and present a differential diagnosis based on the clinical features, and prioritise the diagnosis based on the presentation	Headache
IM17.6	Choose and interpret diagnostic testing based on the clinical diagnosis including imaging	Headache
IM17.7	Enumerate the indications and describe the findings in the CSF in patients with meningitis	Headache
IM17.8	Demonstrate in a mannequin or equivalent the correct technique for performing a lumbar puncture	Headache
IM17.9	Interpret the CSF findings when presented with various parameters of CSF fluid analysis	Headache
IM18.1	Describe the functional and the vascular anatomy of the brain	Cerebrovascular accident
IM18.10	Choose and interpret the appropriate diagnostic testing in young patients with a cerebrovascular accident (CVA)	Cerebrovascular accident
IM18.11	Describe the initial supportive management of a patient presenting with a cerebrovascular accident (CVA)	Cerebrovascular accident

IM18.12	Enumerate the indications for and describe acute therapy of non hemorrhagic stroke including the use of thrombolytic agents	Cerebrovascular accident
IM18.13	Enumerate the indications for and describe the role of anti platelet agents in non hemorrhagic stroke	Cerebrovascular accident
IM18.14	Describe the initial management of a hemorrhagic stroke	Cerebrovascular accident
IM18.15	Enumerate the indications for surgery in a hemorrhagic stroke	Cerebrovascular accident
IM18.16	Enumerate the indications describe and observe the multidisciplinary rehabilitation of patients with a CVA	Cerebrovascular accident
IM18.17	Counsel patient and family about the diagnosis and therapy in an empathetic manner	Cerebrovascular accident
IM18.2	Classify cerebrovascular accidents and describe the aetiology, predisposing genetic and risk factors pathogenesis of hemorrhagic and non hemorrhagic stroke	Cerebrovascular accident
IM18.3	Elicit and document and present an appropriate history including onset, progression, precipitating and aggravating relieving factors, associated symptoms that help identify the cause of the cerebrovascular accident	Cerebrovascular accident
IM18.4	Identify the nature of the cerebrovascular accident based on the temporal evolution and resolution of the illness	Cerebrovascular accident
IM18.5	Perform, demonstrate & document physical examination that includes general and a detailed neurologic examination as appropriate, based on the history	Cerebrovascular accident
IM18.6	Distinguish the lesion based on upper vs lower motor neuron, side, site and most probable nature of the lesion	Cerebrovascular accident
IM18.7	Describe the clinical features and distinguish, based on clinical examination, the various disorders of speech	Cerebrovascular accident

IM18.8	Describe and distinguish, based on the clinical presentation, the types of bladder dysfunction seen in CNS disease	Cerebrovascular accident
IM18.9	Choose and interpret the appropriate diagnostic and imaging test that will delineate the anatomy and underlying cause of the lesion	Cerebrovascular accident
IM19.1	Describe the functional anatomy of the locomotor system of the brain	Movement disorders
IM19.2	Classify movement disorders of the brain based on distribution, rhythm, repetition, exacerbating and relieving factors	Movement disorders
IM19.3	Elicit and document and present an appropriate history including onset, progression precipitating and aggravating relieving factors, associated symptoms that help identify the cause of the movement disorders	Movement disorders
IM19.4	Perform, demonstrate and document a physical examination that includes a general examination and a detailed neurologic examination using standard movement rating scales	Movement disorders
IM19.5	Generate document and present a differential diagnosis and prioritise based on the history and physical examination	Movement disorders
IM19.6	Make a clinical diagnosis regarding on the anatomical location, nature and cause of the lesion based on the clinical presentation and findings	Movement disorders
IM19.7	Choose and interpret diagnostic and imaging tests in the diagnosis of movement disorders	Movement disorders
IM19.8	Discuss and describe the pharmacology, dose, side effects and interactions used in the drug therapy of Parkinson's syndrome	Movement disorders
IM19.9	Enumerate the indications for use of surgery and botulinum toxin in the treatment of movement disorders	Movement disorders
IM2.1	Discuss and describe the epidemiology, antecedents and risk factors for atherosclerosis and ischemic heart disease	General Medicine

IM2.10	Order, perform and interpret an ECG	Acute Myocardial Infarction/ IHD
IM2.11	Order and interpret a Chest X-ray and markers of acute myocardial infarction	Acute Myocardial Infarction/ IHD
IM2.12	Choose and interpret a lipid profile and identify the desirable lipid profile in the clinical context	Acute Myocardial Infarction/ IHD
IM2.13	Discuss and enumerate the indications for and findings on echocardiogram, stress testing and coronary angiogram	Acute Myocardial Infarction/ IHD
IM2.14	Discuss and describe the indications for admission to a coronary care unit and supportive therapy for a patient with acute coronary syndrome	Acute Myocardial Infarction/ IHD
IM2.15	Discuss and describe the medications used in patients with an acute coronary syndrome based on the clinical presentation	Acute Myocardial Infarction/ IHD
IM2.16	Discuss and describe the indications for acute thrombolysis, PTCA and CABG	Acute Myocardial Infarction/ IHD
IM2.17	Discuss and describe the indications and methods of cardiac rehabilitation	Acute Myocardial Infarction/ IHD
IM2.18	Discuss and describe the indications, formulations, doses, side effects and monitoring for drugs used in the management of dyslipidemia	Acute Myocardial Infarction/ IHD
IM2.19	Discuss and describe the pathogenesis, recognition and management of complications of acute coronary syndromes including arrhythmias, shock, LV dysfunction, papillary muscle rupture and pericarditis	Acute Myocardial Infarction/ IHD
IM2.2	Discuss the aetiology of risk factors both modifiable and non modifiable of atherosclerosis and IHD	Acute Myocardial Infarction/ IHD
IM2.20	Discuss and describe the assessment and relief of pain in acute coronary syndromes	Acute Myocardial Infarction/ IHD
IM2.21	Observe and participate in a controlled environment an ACLS program	Acute Myocardial Infarction/ IHD
IM2.22	Perform and demonstrate in a mannequin BLS	Acute Myocardial Infarction/ IHD

IM2.23	Describe and discuss the indications for nitrates, anti platelet agents, gpIIb IIIa inhibitors, beta blockers, ACE inhibitors etc in the management of coronary syndromes	Acute Myocardial Infarction/ IHD
IM2.24	Counsel and communicate to patients with empathy lifestyle changes in atherosclerosis / post coronary syndromes	Acute Myocardial Infarction/ IHD
IM2.3	Discuss and describe the lipid cycle and the role of dyslipidemia in the pathogenesis of atherosclerosis	Acute Myocardial Infarction/ IHD
IM2.4	Discuss and describe the pathogenesis natural history, evolution and complications of atherosclerosis and IHD	Acute Myocardial Infarction/ IHD
IM2.5	Define the various acute coronary syndromes and describe their evolution, natural history and outcomes	Acute Myocardial Infarction/ IHD
IM2.6	Elicit document and present an appropriate history that includes onset evolution, presentation risk factors, family history, comorbid conditions, complications, medication, history of atherosclerosis, IHD and coronary syndromes	Acute Myocardial Infarction/ IHD
IM2.7	Perform, demonstrate and document a physical examination including a vascular and cardiac examination that is appropriate for the clinical presentation	Acute Myocardial Infarction/ IHD
IM2.8	Generate document and present a differential diagnosis based on the clinical presentation and prioritise based on “cannot miss”, most likely diagnosis and severity	Acute Myocardial Infarction/ IHD
IM2.9	Distinguish and differentiate between stable and unstable angina and AMI based on the clinical presentation	Acute Myocardial Infarction/ IHD
IM20.1	Enumerate the local poisonous snakes and describe the distinguishing marks of each	Envenomation
IM20.2	Describe, demonstrate in a volunteer or a mannequin and educate (to other health care workers / patients) the correct initial management of patient with a snake bite in the field	Envenomation

IM20.3	Describe the initial approach to the stabilisation of the patient who presents with snake bite	Envenomation
IM20.4	Elicit and document and present an appropriate history, the circumstance, time, kind of snake, evolution of symptoms in a patient with snake bite	Envenomation
IM20.5	Perform a systematic examination, document and present a physical examination that includes general examination, local examination, appropriate cardiac and neurologic examination	Envenomation
IM20.6	Choose and interpret the appropriate diagnostic testing in patients with snake bites	Envenomation
IM20.7	Enumerate the indications and describe the pharmacology, dose, adverse reactions, hypersensitivity reactions of anti snake venom	Envenomation
IM20.8	Describe the diagnosis, initial approach stabilisation and therapy of scorpion envenomation	Envenomation
IM20.9	Describe the diagnosis initial approach stabilisation and therapy of bee sting allergy	Envenomation
IM21.1	Describe the initial approach to the stabilisation of the patient who presents with poisoning	Poisoning
IM21.2	Enumerate the common plant poisons seen in your area and describe their toxicology, clinical features, prognosis and specific approach to detoxification	Poisoning
IM21.3	Enumerate the common corrosives used in your area and describe their toxicology, clinical features, prognosis and approach to therapy	Poisoning
IM21.4	Enumerate the commonly observed drug overdose in your area and describe their toxicology, clinical features, prognosis and approach to therapy	Poisoning
IM21.5	Observe and describe the functions and role of a poison center in suspected poisoning	Poisoning
IM21.6	Describe the medico legal aspects of suspected suicidal or homicidal poisoning and demonstrate the correct procedure to write a medico legal report on a suspected poisoning	Poisoning

IM21.7	Counsel family members of a patient with suspected poisoning about the clinical and medico legal aspects with empathy	Poisoning
IM21.8	Enumerate the indications for psychiatric consultation and describe the precautions to be taken in a patient with suspected suicidal ideation / gesture	Poisoning
IM22.1	Enumerate the causes of hypercalcemia and distinguish the features of PTH vs non PTH mediated hypercalcemia	Mineral, Fluid Electrolyte and Acid base Disorder
IM22.10	Enumerate the causes of describe the clinical and laboratory features of metabolic alkalosis	Mineral, Fluid Electrolyte and Acid base Disorder
IM22.11	Enumerate the causes and describe the clinical and laboratory features of respiratory acidosis	Mineral, Fluid Electrolyte and Acid base Disorder
IM22.12	Enumerate the causes and describe the clinical and laboratory features of respiratory alkalosis	Mineral, Fluid Electrolyte and Acid base Disorder
IM22.13	Identify the underlying acid based disorder based on an ABG report and clinical situation	Mineral, Fluid Electrolyte and Acid base Disorder
IM22.2	Describe the aetiology, clinical manifestations, diagnosis and clinical approach to primary hyperparathyroidism	Mineral, Fluid Electrolyte and Acid base Disorder
IM22.3	Describe the approach to the management of hypercalcemia	Mineral, Fluid Electrolyte and Acid base Disorder
IM22.4	Enumerate the components and describe the genetic basis of the multiple endocrine neoplasia syndrome	Mineral, Fluid Electrolyte and Acid base Disorder
IM22.5	Enumerate the causes and describe the clinical features and the correct approach to the diagnosis and management of the patient with hyponatremia	Mineral, Fluid Electrolyte and Acid base Disorder

IM22.6	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hyponatremia	Mineral, Fluid Electrolyte and Acid base Disorder
IM22.7	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hypokalemia	Mineral, Fluid Electrolyte and Acid base Disorder
IM22.8	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hyperkalemia	Mineral, Fluid Electrolyte and Acid base Disorder
IM22.9	Enumerate the causes and describe the clinical and laboratory features of metabolic acidosis	Mineral, Fluid Electrolyte and Acid base Disorder
IM23.1	Discuss and describe the methods of nutritional assessment in an adult and calculation of caloric requirements during illnesses	Nutritional and Vitamin Deficiencies
IM23.2	Discuss and describe the causes and consequences of protein caloric malnutrition in the hospital	Nutritional and Vitamin Deficiencies
IM23.3	Discuss and describe the aetiology, causes, clinical manifestations, complications, diagnosis and management of common vitamin deficiencies	Nutritional and Vitamin Deficiencies
IM23.4	Enumerate the indications for enteral and parenteral nutrition in critically ill patients	Nutritional and Vitamin Deficiencies
IM23.5	Counsel and communicate to patients in a simulated environment with illness on an appropriate balanced diet	Nutritional and Vitamin Deficiencies
IM24 5	Describe and discuss the aetiopathogenesis clinical presentation identification, functional changes, acute care, stabilization, management and rehabilitation of depression in the elderly	Geriatrics
IM24.1	Describe and discuss the epidemiology, pathogenesis, clinical evolution, presentation and course of common diseases in the elderly	Geriatrics

IM24.10	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of COPD in the elderly	Geriatrics
IM24.11	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of the elderly undergoing surgery	Geriatrics
IM24.12	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of degenerative joint disease	Geriatrics
IM24.13	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of falls in the elderly	Geriatrics
IM24.14	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of common fractures in the elderly	Geriatrics
IM24.15	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of vision and visual loss in the elderly	Geriatrics
IM24.16	Describe and discuss the principles of physical and social rehabilitation, functional assessment, role of physiotherapy and occupational therapy in the management of disability in the elderly	Geriatrics
IM24.17	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of hearing loss in the elderly	Geriatrics

IM24.18	Describe the impact of the demographic changes in ageing on the population	General Medicine
IM24.19	Enumerate and describe the social problems in the elderly including isolation, abuse, change in family structure and their impact on health.	Geriatrics
IM24.2	Perform multidimensional geriatric assessment that includes medical, psycho-social and functional components	Geriatrics
IM24.20	Enumerate and describe social interventions in the care of elderly including domiciliary discussion services, rehabilitation facilities, old age homes and state interventions	Geriatrics
IM24.21	Enumerate and describe ethical issues in the care of the elderly	Geriatrics
IM24.22	Describe and discuss the aetiopathogenesis, clinical presentation, complications, assessment and management of nutritional disorders in the elderly	Geriatrics
IM24.3	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of acute confusional states	Geriatrics
IM24.4	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of vascular events in the elderly	Geriatrics
IM24.5	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of depression in the elderly	General Medicine
IM24.6	Describe and discuss the aetiopathogenesis causes, clinical presentation, difference in discussion presentation identification, functional changes, acute care, stabilization, management and rehabilitation of dementia in the elderly	Geriatrics

IM24.7	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of personality changes in the elderly	Geriatrics
IM24.8	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of osteoporosis in the elderly	Geriatrics
IM24.9	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of CVA in the elderly	Geriatrics
IM25.1	Describe and discuss the response and the influence of host immune status, risk factors and comorbidities on zoonotic diseases (e.g. Leptospirosis, Rabies) and non-febrile infectious disease (e.g. Tetanus)	General Medicine
IM25.10	Develop and present an appropriate diagnostic plan based on the clinical presentation, most likely diagnosis in a prioritised and cost effective manner	Miscellaneous Infections
IM25.11	Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis	Miscellaneous Infections
IM25.12	Communicate to the patient and family the diagnosis and treatment of identified infection	Miscellaneous Infections
IM25.13	Counsel the patient and family on prevention of various infections due to environmental issues	General Medicine
IM25.2	Discuss and describe the common causes, pathophysiology and manifestations of these diseases	General Medicine
IM25.3	Describe and discuss the pathophysiology and manifestations of these diseases	Miscellaneous Infections

IM25.4	Elicit document and present a medical history that helps delineate the aetiology of these diseases that includes the evolution and pattern of symptoms, risk factors, exposure through occupation and travel	General Medicine
IM25.5	Perform a systematic examination that establishes the diagnosis and severity of presentation that includes: general skin, mucosal and lymph node examination, chest and abdominal examination (including examination of the liver and spleen)	Miscellaneous Infections
IM25.6	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes	Miscellaneous Infections
IM25.7	Order and interpret diagnostic tests based on the differential diagnosis including: CBC with differential, blood biochemistry, peripheral smear, urinary analysis with sediment, Chest X ray, blood and urine cultures, sputum gram stain and cultures, sputum AFB and cultures, CSF analysis, pleural and body fluid analysis, stool routine and culture and QBC	Miscellaneous Infections
IM25.8	Enumerate the indications for use of newer techniques in the diagnosis of these infections	Miscellaneous Infections
IM25.9	Assist in the collection of blood and other specimen cultures	Miscellaneous Infections
IM26.1	Enumerate and describe professional qualities and roles of a physician	The role of the physician in the community
IM26.10	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to confidentiality in patient care	The role of the physician in the community
IM26.11	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to patient autonomy, patient rights and shared responsibility in health care	The role of the physician in the community

IM26.12	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to decision making in health care including advanced directives and surrogate decision making	The role of the physician in the community
IM26.13	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to decision making in emergency care including situations where patients do not have the capability or capacity to give consent	The role of the physician in the community
IM26.14	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to research in human subjects	The role of the physician in the community
IM26.15	Identify, discuss and defend, medicolegal,socio-cultural and ethical issues as they pertain to consent for surgical procedures	The role of the physician in the community
IM26.16	Identify, discuss and defend medicolegal, socio-cultural, professional and ethical issues as it pertains to the physician patient relationship (including fiduciary duty)	The role of the physician in the community
IM26.17	Identify, discuss physician's role and responsibility to society and the community that she/ he serves	The role of the physician in the community
IM26.18	Identify, discuss and defend medicolegal, socio-cultural, professional and ethical issues in physician- industry relationships	The role of the physician in the community
IM26.19	Demonstrate ability to work in a team of peers and superiors	The role of the physician in the community
IM26.2	Describe and discuss the commitment to lifelong learning as an important part of physician growth	The role of the physician in the community
IM26.20	Demonstrate ability to communicate to patients in a patient, respectful, non threatening, non judgemental and empathetic manner	The role of the physician in the community
IM26.21	Demonstrate respect to patient privacy	The role of the physician in the community

IM26.22	Demonstrate ability to maintain confidentiality in patient care	The role of the physician in the community
IM26.23	Demonstrate a commitment to continued learning	The role of the physician in the community
IM26.24	Demonstrate respect in relationship with patients, fellow team members, superiors and other health care workers	The role of the physician in the community
IM26.25	Demonstrate responsibility and work ethics while working in the health care team	The role of the physician in the community
IM26.26	Demonstrate ability to maintain required documentation in health care (including correct use of medical records)	The role of the physician in the community
IM26.27	Demonstrate personal grooming that is adequate and appropriate for health care responsibilities	The role of the physician in the community
IM26.28	Demonstrate adequate knowledge and use of information technology that permits appropriate patient care and continued learning	The role of the physician in the community
IM26.29	Communicate diagnostic and therapeutic opitons to patient and family in a simulated environment	The role of the physician in the community
IM26.3	Describe and discuss the role of non maleficence as a guiding principle in patient care	The role of the physician in the community
IM26.30	Communicate care opitons to patient and family with a terminal illness in a simulated environment	The role of the physician in the community
IM26.31	Demonstrate awareness of limitations and seeks help and consultations appropriately	The role of the physician in the community
IM26.32	Demonstrate appropriate respect to colleagues in the profession	The role of the physician in the community

IM26.33	Demonstrate an understanding of the implications and the appropriate procedures and response to be followed in the event of medical errors	The role of the physician in the community
IM26.34	Identify conflicts of interest in patient care and professional relationships and describe the correct response to these conflicts	The role of the physician in the community
IM26.35	Demonstrate empathy in patient encounters	The role of the physician in the community
IM26.36	Demonstrate ability to balance personal and professional priorities	The role of the physician in the community
IM26.37	Demonstrate ability to manage time appropriately	The role of the physician in the community
IM26.38	Demonstrate ability to form and function in appropriate professional networks	The role of the physician in the community
IM26.39	Demonstrate ability to pursue and seek career advancement	The role of the physician in the community
IM26.4	Describe and discuss the role of autonomy and shared responsibility as a guiding principle in patient care	The role of the physician in the community
IM26.40	Demonstrate ability to follow risk management and medical error reduction practices where appropriate	The role of the physician in the community
IM26.41	Demonstrate ability to work in a mentoring relationship with junior colleagues	The role of the physician in the community
IM26.42	Demonstrate commitment to learning and scholarship	The role of the physician in the community
IM26.43	Identify, discuss and defend medicolegal, sociocultural, economic and ethical issues as they pertain to in vitro fertilisation donor insemination and surrogate motherhood	The role of the physician in the community

IM26.44	Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues pertaining to medical negligence	The role of the physician in the community
IM26.45	Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues pertaining to malpractice	The role of the physician in the community
IM26.46	Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues in dealing with impaired physicians	The role of the physician in the community
IM26.47	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as they pertain to refusal of care including do not resuscitate and withdrawal of life support	The role of the physician in the community
IM26.48	Demonstrate altruism	The role of the physician in the community
IM26.49	Administer informed consent and approriately adress patient queries to a patient being enrolled in a research protocol in a simulated environment	The role of the physician in the community
IM26.5	Describe and discuss the role of beneficence of a guiding principle in patient care	The role of the physician in the community
IM26.6	Describe and discuss the role of a physician in health care system	The role of the physician in the community
IM26.7	Describe and discuss the role of justice as a guiding principle in patient care	The role of the physician in the community
IM26.8	Identify discuss medicolegal, socioeconomic and ethical issues as it pertains to organ donation	The role of the physician in the community
IM26.9	Identify, discuss and defend medicolegal, sociocultural, economic and ethical issues as it pertains to rights, equity and justice in access to health care	The role of the physician in the community
IM3.1	Define, discuss, describe and distinguish community acquired pneumonia, nosocomial pneumonia and aspiration pneumonia	Pneumonia

IM3.10	Demonstrate the correct technique in a mannequin and interpret results of a blood culture	Pneumonia
IM3.11	Describe and enumerate the indications for further testing including HRCT, Viral cultures, PCR and specialised testing	Pneumonia
IM3.12	Select, describe and prescribe based on the most likely aetiology, an appropriate empirical antimicrobial based on the pharmacology and antimicrobial spectrum	Pneumonia
IM3.13	Select, describe and prescribe based on culture and sensitivity appropriate empaling antimicrobial based on the pharmacology and antimicrobial spectrum.	Pneumonia
IM3.14	Perform and interpret a sputum gram stain and AFB	Pneumonia
IM3.15	Describe and enumerate the indications for hospitalisation in patients with pneumonia	Pneumonia
IM3.16	Describe and enumerate the indications for isolation and barrier nursing in patients with pneumonia	Pneumonia
IM3.17	Describe and discuss the supportive therapy in patients with pneumonia including oxygen use and indications for ventilation	Pneumonia
IM3.18	Communicate and counsel patient on family on the diagnosis and therapy of pneumonia	Pneumonia
IM3.19	Discuss, describe, enumerate the indications and communicate to patients on pneumococcal and influenza vaccines	Pneumonia
IM3.2	Discuss and describe the aetiologies of various kinds of pneumonia and their microbiology depending on the setting and immune status of the host	Pneumonia
IM3.3	Discuss and describe the pathogenesis, presentation, natural history and complications of pneumonia	Pneumonia
IM3.4	Elicit document and present an appropriate history including the evolution, risk factors including immune status and occupational risk	Pneumonia

IM3.5	Perform, document and demonstrate a physical examination including general examination and appropriate examination of the lungs that establishes the diagnosis, complications and severity of disease	Pneumonia
IM3.6	Generate document and present a differential diagnosis based on the clinical features, and prioritise the diagnosis based on the presentation	Pneumonia
IM3.7	Order and interpret diagnostic tests based on the clinical presentation including: CBC, Chest X ray PA view, Mantoux, sputum gram stain, sputum culture and sensitivity, pleural fluid examination and culture, HIV testing and ABG	Pneumonia
IM3.8	Demonstrate in a mannequin and interpret results of an arterial blood gas examination	Pneumonia
IM3.9	Demonstrate in a mannequin and interpret results of a pleural fluid aspiration	Pneumonia
IM4.1	Describe and discuss the febrile response and the influence of host immune status, risk factors and comorbidities on the febrile response	Fever and febrile syndromes
IM4.10	Perform a systematic examination that establishes the diagnosis and severity of presentation that includes: general skin mucosal and lymph node examination, chest and abdominal examination (including examination of the liver and spleen)	
IM4.11	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes	Fever and febrile syndromes
IM4.12	Order and interpret diagnostic tests based on the differential diagnosis including: CBC with differential, peripheral smear, urinary analysis with sediment, Chest X ray, blood and urine cultures, sputum gram stain and cultures, sputum AFB and cultures, CSF analysis, pleural and body fluid analysis, stool routine and culture and QBC	Fever and febrile syndromes
IM4.13	Perform and interpret a sputum gram stain	

IM4.14	Perform and interpret a sputum AFB	Fever and febrile syndromes
IM4.15	Perform and interpret a malarial smear	Fever and febrile syndromes
IM4.16	Enumerate the indications and describe the findings in tests of inflammation and specific rheumatologic tests, serologic testing for pathogens including HIV, bone marrow aspiration and biopsy	Fever and febrile syndromes
IM4.17	Observe and assist in the performance of a bone marrow aspiration and biopsy in a simulated environment	Fever and febrile syndromes
IM4.18	Enumerate the indications for use of imaging in the diagnosis of febrile syndromes	Fever and febrile syndromes
IM4.19	Assist in the collection of blood and wound cultures	Fever and febrile syndromes
IM4.2	Describe and discuss the influence of special populations on the febrile response including: the elderly, immune suppression, malignancy and neutropenia, HIV and travel	Fever and febrile syndromes
IM4.20	Interpret a PPD (Mantoux)	Fever and febrile syndromes
IM4.21	Develop and present an appropriate diagnostic plan based on the clinical presentation, most likely diagnosis in a prioritised and cost effective manner	Fever and febrile syndromes
IM4.22	Describe and discuss the pharmacology, indications, adverse reactions, interactions of antimalarial drugs and basis of resistance	Fever and febrile syndromes
IM4.23	Prescribe drugs for malaria based on the species identified, prevalence of drug resistance and national programs	Fever and febrile syndromes
IM4.24	Develop an appropriate empiric treatment plan based on the patient’s clinical and immune status pending definitive diagnosis	Fever and febrile syndromes
IM4.25	Communicate to the patient and family the diagnosis and treatment	Fever and febrile syndromes

IM4.26	Counsel the patient on malarial prevention	Fever and febrile syndromes
IM4.3	Discuss and describe the common causes, pathophysiology and manifestations of fever in various regions in India including bacterial, parasitic and viral causes (e.g. Dengue, Chikungunya, Typhus)	General Medicine
IM4.4	Describe and discuss the pathophysiology and manifestations of inflammatory causes of fever	Fever and febrile syndromes
IM4.5	Describe and discuss the pathophysiology and manifestations of malignant causes of fever including hematologic and lymph node malignancies	Fever and febrile syndromes
IM4.6	Discuss and describe the pathophysiology and manifestations of malaria	Fever and febrile syndromes
IM4.7	Discuss and describe the pathophysiology and manifestations of the sepsis syndrome	Fever and febrile syndromes
IM4.8	Discuss and describe the pathophysiology, aetiology and clinical manifestations of fever of unknown origin (FUO) including in a normal host, neutropenic host, nosocomial host and a host with HIV disease	Fever and febrile syndromes
IM4.9	Elicit document and present a medical history that helps delineate the aetiology of fever that includes the evolution and pattern of fever, associated symptoms, immune status, comorbidities, risk factors, exposure through occupation, travel and environment and medication use	Fever and febrile syndromes
IM5.1	Describe and discuss the physiologic and biochemical basis of hyperbilirubinemia	Liver disease
IM5.10	Perform a systematic examination that establishes the diagnosis and severity that includes nutritional status, mental status, jaundice, abdominal distension ascites, features of portosystemic hypertension and hepatic encephalopathy	Liver disease

IM5.11	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology for the presenting symptom	
IM5.12	Choose and interpret appropriate diagnostic tests including: CBC, bilirubin, function tests, Hepatitis serology and ascitic fluid examination in patient with liver diseases.	Liver disease
IM5.13	Enumerate the indications for ultrasound and other imaging studies including MRCP and ERCP and describe the findings in liver disease	Liver disease
IM5.14	Outline a diagnostic approach to liver disease based on hyperbilirubinemia, liver function changes and hepatitis serology	Liver disease
IM5.15	Assist in the performance and interpret the findings of an ascitic fluid analysis	Liver disease
IM5.16	Describe and discuss the management of hepatitis, cirrhosis, portal hypertension, ascites spontaneous, bacterial peritonitis and hepatic encephalopathy	Liver disease
IM5.17	Enumerate the indications, precautions and counsel patients on vaccination for hepatitis	Liver disease
IM5.18	Enumerate the indications for hepatic transplantation	Liver disease
IM5.2	Describe and discuss the aetiology and pathophysiology of liver injury	Liver disease
IM5.3	Describe and discuss the pathologic changes in various forms of liver disease	Liver disease
IM5.4	Describe and discuss the epidemiology, microbiology, immunology and clinical evolution of infective (viral) hepatitis	Liver disease
IM5.5	Describe and discuss the pathophysiology and clinical evolution of alcoholic liver disease	Liver disease
IM5.6	Describe and discuss the pathophysiology, clinical evolution and complications of cirrhosis and portal hypertension including ascites, spontaneous bacterial peritonitis, hepatorenal syndrome and hepatic encephalopathy	Liver disease
IM5.7	Enumerate and describe the causes and pathophysiology of drug induced liver injury	Liver disease

IM5.8	Describe and discuss the pathophysiology, clinical evolution and complications cholelithiasis and cholecystitis	Liver disease
IM5.9	Elicit document and present a medical history that helps delineate the aetiology of the current presentation and includes clinical presentation, risk factors, drug use, sexual history, vaccination history and family history	Liver disease
IM6.1	Describe and discuss the symptoms and signs of acute HIV seroconversion	HIV
IM6.10	Choose and interpret appropriate diagnostic tests to diagnose opportunistic infections including CBC, sputum examination and cultures, blood cultures, stool analysis, CSF analysis and Chest radiographs	HIV
IM6.11	Enumerate the indications and describe the findings for CT of the chest and brain and MRI	HIV
IM6.12	Enumerate the indications for and interpret the results of: pulse oximetry, ABG, Chest Radiograph	HIV
IM6.13	Describe and enumerate the indications and side effects of drugs for bacterial, viral and other types of diarrhea	HIV
IM6.14	Perform and interpret AFB sputum	HIV
IM6.15	Demonstrate in a model the correct technique to perform a lumbar puncture	HIV
IM6.16	Discuss and describe the principles of HAART, the classes of antiretrovirals used, adverse reactions and interactions	HIV
IM6.17	Discuss and describe the principles and regimens used in post exposure prophylaxis	HIV
IM6.18	Enumerate the indications and discuss prophylactic drugs used to prevent HIV related opportunistic infections	HIV
IM6.19	Counsel patients on prevention of HIV transmission	HIV
IM6.2	Define and classify HIV AIDS based on the CDC criteria	HIV
IM6.20	Communicate diagnosis, treatment plan and subsequent follow up plan to patients	HIV

IM6.21	Communicate with patients on the importance of medication adherence	HIV
IM6.22	Demonstrate understanding of ethical and legal issues regarding patient confidentiality and disclosure in patients with HIV	HIV
IM6.23	Demonstrate a non-judgemental attitude to patients with HIV and to their lifestyles	HIV
IM6.3	Describe and discuss the relationship between CDC count and the risk of opportunistic infections	HIV
IM6.4	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related opportunistic infections	HIV
IM6.5	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related malignancies	HIV
IM6.6	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related skin and oral lesions	HIV
IM6.7	Elicit document and present a medical history that helps delineate the aetiology of the current presentation and includes risk factors for HIV, mode of infection, other sexually transmitted diseases, risks for opportunistic infections and nutritional status	HIV
IM6.8	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology for the presenting symptom	HIV
IM6.9	Choose and interpret appropriate diagnostic tests to diagnose and classify the severity of HIV-AIDS including specific tests of HIV, CDC	HIV
IM7.1	Describe the pathophysiology of autoimmune disease	Rheumatologic problems
IM7.10	Describe the systemic manifestations of rheumatologic disease	Rheumatologic problems
IM7.11	Elicit document and present a medical history that will differentiate the aetiologies of disease	Rheumatologic problems
IM7.12	Perform a systematic examination of all joints, muscle and skin that will establish the diagnosis and severity of disease	Rheumatologic problems

IM7.13	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	Rheumatologic problems
IM7.14	Describe the appropriate diagnostic work up based on the presumed aetiology	Rheumatologic problems
IM7.15	Enumerate the indications for and interpret the results of : CBC, anti- CCP, RA, ANA, DNA and other tests of autoimmunity	Rheumatologic problems
IM7.16	Enumerate the indications for arthrocentesis	Rheumatologic problems
IM7.17	Enumerate the indications and interpret plain radiographs of joints	Rheumatologic problems
IM7.18	Communicate diagnosis, treatment plan and subsequent follow up plan to patients	Rheumatologic problems
IM7.19	Develop an appropriate treatment plan for patients with rheumatologic diseases	Rheumatologic problems
IM7.2	Describe the genetic basis of autoimmune disease	Rheumatologic problems
IM7.20	Select, prescribe and communicate appropriate medications for relief of joint pain	Rheumatologic problems
IM7.21	Select, prescribe and communicate preventive therapy for crystalline arthropathies	Rheumatologic problems
IM7.22	Select, prescribe and communicate treatment option for systemic rheumatologic conditions	Rheumatologic problems
IM7.23	Describe the basis for biologic and disease modifying therapy in rheumatologic diseases	Rheumatologic problems
IM7.24	Communicate and incorporate patient preferences in the choice of therapy	Rheumatologic problems
IM7.25	Develop and communicate appropriate follow up and monitoring plans for patients with rheumatologic conditions	Rheumatologic problems
IM7.26	Demonstrate an understanding of the impact of rheumatologic conditions on quality of life, well being, work and family	Rheumatologic problems
IM7.27	Determine the need for specialist consultation	Rheumatologic problems
IM7.3	Classify cause of joint pain based on the pathophysiology	Rheumatologic problems

IM7.4	Develop a systematic clinical approach to joint pain based on the pathophysiology	Rheumatologic problems
IM7.5	Describe and discriminate acute, subacute and chronic causes of joint pain	Rheumatologic problems
IM7.6	Discriminate, describe and discuss arthralgia from arthritis and mechanical from inflammatory causes of joint pain	Rheumatologic problems
IM7.7	Discriminate, describe and discuss distinguishing articular from periarticular complaints	Rheumatologic problems
IM7.8	Determine the potential causes of join pain based on the presenting features of joint involvement	Rheumatologic problems
IM7.9	Describe the common signs and symptoms of articular and periarticular diseases	Rheumatologic problems
IM8.1	Describe and discuss the epidemiology, aetiology and the prevalence of primary and secondary hypertension	Hypertension
IM8.10	Perform a systematic examination that includes : an accurate measurement of blood pressure, fundus examination, examination of vasculature and heart	Hypertension
IM8.11	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	Hypertension
IM8.12	Describe the appropriate diagnostic work up based on the presumed aetiology	Hypertension
IM8.13	Enumerate the indications for and interpret the results of : CBC, Urine routine, BUN, Cr, Electrolytes, Uric acid, ECG	Hypertension
IM8.14	Develop an appropriate treatment plan for essential hypertension	Hypertension
IM8.15	Recognise, prioritise and manage hypertensive emergencies	Hypertension
IM8.16	Develop and communicate to the patient lifestyle modification including weight reduction, moderation of alcohol intake, physical activity and sodium intake	Hypertension
IM8.17	Perform and interpret a 12 lead ECG	Hypertension
IM8.18	Incorporate patient preferences in the management of HTN	Hypertension

IM8.19	Demonstrate understanding of the impact of Hypertension on quality of life, well being, work and family	Hypertension
IM8.2	Describe and discuss the pathophysiology of hypertension	Hypertension
IM8.20	Determine the need for specialist consultation	Hypertension
IM8.3	Describe and discuss the genetic basis of hypertension	Hypertension
IM8.4	Define and classify hypertension	Hypertension
IM8.5	Describe and discuss the differences between primary and secondary hypertension	Hypertension
IM8.6	Define, describe and discuss and recognise hypertensive urgency and emergency	Hypertension
IM8.7	Describe and discuss the clinical manifestations of the various aetiologies of secondary causes of hypertension	Hypertension
IM8.8	Describe, discuss and identify target organ damage due to hypertension	Hypertension
IM8.9	Elicit document and present a medical history that includes: duration and levels, symptoms, comorbidities, lifestyle, risk factors, family history, psychosocial and environmental factors, dietary assessment, previous and concomitant therapy	Hypertension
IM9.1	Define, describe and classify anemia based on red blood cell size and reticulocyte count	Anemia
IM9.10	Describe, perform and interpret a peripheral smear and stool occult blood	Anemia
IM9.11	Describe the indications and interpret the results of a bone marrow aspirations and biopsy	Anemia
IM9.12	Describe, develop a diagnostic plan to determine the aetiology of anemia	Anemia
IM9.13	Prescribe replacement therapy with iron, B12, folate	Anemia
IM9.14	Describe the national programs for anemia prevention	Anemia
IM9.15	Describe the national programs for anemia prevention	General Medicine
IM9.16	Incorporate patient preferences in the management of anemia	Anemia

IM9.17	Describe the indications for blood transfusion and the appropriate use of blood components	Anemia
IM9.18	Describe the precautions required necessary when performing a blood transfusion	Anemia
IM9.19	Assist in a blood transfusion	Anemia
IM9.2	Describe and discuss the morphological characteristics, aetiology and prevalence of each of the causes of anemia	Anemia
IM9.20	Communicate and counsel patients with methods to prevent nutritional anemia	Anemia
IM9.21	Determine the need for specialist consultation	Anemia
IM9.3	Elicit document and present a medical history that includes symptoms, risk factors including GI bleeding, prior history, medications, menstrual history, and family history	Anemia
IM9.4	Perform a systematic examination that includes : general examination for pallor, oral examination, DOAP session of hyper dynamic circulation, lymph node and splenic examination	Anemia
IM9.5	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	Anemia
IM9.6	Describe the appropriate diagnostic work up based on the presumed aetiology	Anemia
IM9.7	Describe and discuss the meaning and utility of various components of the hemogram	Anemia
IM9.8	Describe and discuss the various tests for iron deficiency	Anemia
IM9.9	Order and interpret tests for anemia including hemogram, red cell indices, reticulocyte count, iron studies, B12 and folate	Anemia
MI1.1	Describe the different causative agents of Infectious diseases+A208, the methods used in their detection, and discuss the role of microbes in health and disease	General Microbiology and Immunity

MI1.10	Describe the immunological mechanisms in immunological disorder (hypersensitivity, autoimmune disorders and immunodeficiency states) and discuss the laboratory methods used in detection	Microbiology
MI1.11	Describe the immunological mechanisms of transplantation and tumor immunity	General Microbiology and Immunity
MI1.2	Perform and identify the different causative agents of Infectious diseases by Gram Stain, ZN stain and stool routine microscopy	General Microbiology and Immunity
MI1.3	Describe the epidemiological basis of common infectious diseases	Microbiology
MI1.4	Classify and describe the different methods of sterilization and disinfection. Discuss the application of the different methods in the laboratory, in clinical and surgical practice	Microbiology
MI1.5	Choose the most appropriate method of sterilization and disinfection to be used in specific situations in the laboratory, in clinical and surgical practice	Microbiology
MI1.6	Describe the mechanisms of drug resistance, methods of antimicrobial susceptibility testing and monitoring of antimicrobial therapy.	Microbiology
MI1.7	Describe the immunological mechanisms in health	Microbiology
MI1.8	Describe the mechanisms of immunity and response of the host immune system to infections	Microbiology
MI1.9	Discuss the immunological basis of vaccines and describe the Universal Immunisation schedule	Microbiology
MI2.1	Describe the etiologic agents in rheumatic fever and their diagnosis	Microbiology
MI2.2	Describe the classification, etio-pathogenesis, clinical features and discuss the diagnostic modalities of Infective endocarditis	Microbiology
MI2.3	Identify the microbial agents causing Rheumatic heart disease & infective Endocarditis	Microbiology

MI2.4	List the common microbial agents causing anemia. Describe the morphology, mode of infection and discuss the pathogenesis, clinical course, diagnosis and prevention and treatment of the common microbial agents causing Anemia	Microbiology
MI2.5	Describe the etio-pathogenesis and discuss the clinical evolution and the laboratory diagnosis of kalazaar, malaria, filariasis and other common parasites prevalent in India	Microbiology
MI2.6	Identify the causative agent of malaria and filariasis	Microbiology
MI2.7	Describe the epidemiology, the etio- pathogenesis evolution complications, opportunistic infections, diagnosis prevention and the principles of management of HIV	Microbiology
MI3.1	Enumerate the microbial agents causing diarrhea and dysentery. Describe the epidemiology, morphology, pathogenesis, clinical features, and diagnostic modalities of these agents	Microbiology
MI3.2	Identify the common etiologic agents of diarrhea and dysentery	Microbiology
MI3.3	Describe the enteric fever pathogens and discuss the evolution of the clinical course, the laboratory diagnosis of the diseases caused by them	Microbiology
MI3.4	Identify the different modalities for diagnosis of enteric fever. Choose the appropriate test related to the duration of illness	Microbiology
MI3.5	Enumerate the causative agents of food poisoning and discuss the pathogenesis, clinical course and laboratory diagnosis	Microbiology
MI3.6	Describe the etio-pathogenesis of Acid peptic disease (APD) and the clinical course. Discuss the diagnosis and management of the causative agent of APD	Microbiology
MI3.7	Describe the epidemiology, the etio- pathogenesis and discuss the viral markers in the evolution of Viral hepatitis. Discuss the modalities in the diagnosis, and prevention of viral hepatitis	Microbiology

MI3.8	Choose the appropriate laboratory test in the diagnosis of viral hepatitis	Microbiology
MI4.1	Enumerate the microbial agents causing anaerobic infections. Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of anaerobic infections	Microbiology
MI4.2	Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of bone & joint infections.	Microbiology
MI4.3	Describe the etio-pathogenesis of Skin and soft tissue infections and discuss the clinical course, and the laboratory diagnosis.	Microbiology
MI5.1	Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of meningitis	Microbiology
MI5.2	Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of encephalitis	Microbiology
MI5.3	Identify the microbial agents causing meningitis	Microbiology
MI6.1	Describe the etio-pathogenesis, laboratory diagnosis and prevention of Infections of upper and lower respiratory tract	Microbiology
MI6.2	Identify the common etiologic agents of upper respiratory tract infections (Gram Stain)	Microbiology
MI6.3	Identify the common etiologic agents of lower respiratory tract infections (Gram Stain & Acid fast stain).	Microbiology
MI7.1	Describe the etio-pathogenesis and discuss the laboratory diagnosis of infections of genitourinary system	Microbiology
MI7.2	Describe the etio-pathogenesis and discuss the laboratory diagnosis of sexually transmitted infections. Recommend preventive measures, wherever relevant.	Microbiology
MI7.3	Describe the etio-pathogenesis, clinical features, the appropriate method for specimen collection, and discuss the laboratory diagnosis of Urinary tract infections	Microbiology

MI8.1	Enumerate the microbial agents and their vectors causing Zoonotic diseases. Describe the morphology, mode of transmission, pathogenesis and discuss the clinical course, laboratory diagnosis and prevention	Microbiology
MI8.10	Demonstrate the appropriate method of collection of samples in the performance of laboratory tests in the detection of microbial agents causing Infectious diseases	Zoonotic diseases and miscellaneous
MI8.11	Demonstrate respect for patient samples sent to the laboratory for performance of laboratory tests in the detection of microbial agents causing Infectious diseases	Zoonotic diseases and miscellaneous
MI8.12	Discuss confidentiality pertaining to patient identity in laboratory results	Zoonotic diseases and miscellaneous
MI8.13	Choose the appropriate laboratory test in the diagnosis of the infectious disease	Zoonotic diseases and miscellaneous
MI8.14	Demonstrate confidentiality pertaining to patient identity in laboratory results	Zoonotic diseases and miscellaneous
MI8.15	Choose and Interpret the results of the laboratory tests used in diagnosis of the infectious diseas	Zoonotic diseases and miscellaneous
MI8.16	Describe the National Health Programs in the prevention of common infectious disease (for information purpose only as taught in CM)	Microbiology
MI8.2	Describe the etio-pathogenesis of opportunistic infections (OI) and discuss the factors contributing to the occurrence of OI, and the laboratory diagnosis	Microbiology
MI8.3	Describe the role of oncogenic viruses in the evolution of virus associated malignancy	Microbiology
MI8.4	Describe the etiologic agents of emerging Infectious diseases. Discuss the clinical course and diagnosis	Microbiology
MI8.5	Define Healthcare Associated Infections (HAI) and enumerate the types. Discuss the factors that contribute to the development of HAI and the methods for prevention	Microbiology
MI8.6	Describe the basics of Infection control	Microbiology

MI8.7	Demonstrate Infection control practices and use of Personal Protective Equipments (PPE)	Microbiology
MI8.8	Describe the methods used and significance of assessing the microbial contamination of food, water and air	Zoonotic diseases and miscellaneous
MI8.9	Discuss the appropriate method of collection of samples in the performance of laboratory tests in the detection of microbial agents causing infectious diseases	Zoonotic diseases and miscellaneous
OG1.1	Define and discuss birth rate, maternal mortality and morbidity	Obstetrics & Gynaecology
OG1.2	Define and discuss perinatal mortality and morbidity including perinatal and neonatal mortality and morbidity audit	Obstetrics & Gynaecology
OG1.3	Define and discuss still birth and abortion	Demographic and Vital Statistics
OG10.1	Define, classify and describe the aetiology, pathogenesis, clinical features, ultrasonography, differential diagnosis and management of antepartum haemorrhage in pregnancy	Antepartum haemorrhage
OG10.2	Enumerate the indications and describe the appropriate use of blood and blood products, their complications and management.	Antepartum haemorrhage
OG11.1	Describe the etiopathology, clinical features; diagnosis and investigations, complications, principles of management of multiple pregnancies	Multiple pregnancies
OG12.1	Define, classify and describe the etiology and pathophysiology, early detection, investigations; principles of management of hypertensive disorders of pregnancy and eclampsia, complications of eclampsia	Obstetrics & Gynaecology
OG12.2	Define, Classify and describe the etiology, pathophysiology, diagnosis, investigations, adverse effects on the mother and foetus and the management during pregnancy and labor, and complications of anemia in pregnancy	Obstetrics & Gynaecology

OG12.3	Define, Classify and describe the etiology, pathophysiology, diagnosis, investigations, criteria, adverse effects on the mother and foetus and the management during pregnancy and labor, and complications of diabetes in pregnancy	Obstetrics & Gynaecology
OG12.4	Define, classify and describe the etiology, pathophysiology, diagnosis, investigations, criteria, adverse effects on the mother and foetus and the management during pregnancy and labor, and complications of heart diseases in pregnancy	Obstetrics & Gynaecology
OG12.5	disease and impact of the disease on pregnancy complications and management in pregnancy of liver disease	Obstetrics & Gynaecology
OG12.6	Describe the clinical features, detection, effect of pregnancy on the disease and impact of the disease on pregnancy complications and management of liver disease in pregnancy	Medical Disorders in pregnancy
OG12.7	Describe and discuss Screening, risk factors, management of mother and newborn with HIV	Obstetrics & Gynaecology
OG12.8	Describe the mechanism, prophylaxis, fetal complications, diagnosis and management of isoimmunization in pregnancy	Medical Disorders in pregnancy
OG13.1	Enumerate and discuss the physiology of normal labor, mechanism of labor in occipito-anterior presentation; monitoring of labor including partogram; conduct of labor, pain relief; principles of induction and acceleration of labor; management of third stage of labor.	Labour
OG13.2	Define, describe the causes, pathophysiology, diagnosis, investigations and management of preterm labor, PROM and postdated pregnancy	Labour
OG13.3	Observe/ assist in the performance of an artificial rupture of membranes	Labour
OG13.4	Demonstrate the stages of normal labor in a simulated environment / mannequin and counsel on methods of safe abortion.	Labour
OG13.5	Observe and assist the conduct of a normal vaginal delivery	Labour

OG14.1	Enumerate and discuss the diameters of maternal pelvis and types	Abnormal Lie and Presentation; Maternal Pelvis
OG14.2	Discuss the mechanism of normal labor, Define and describe obstructed labor, its clinical features; prevention; and management	Abnormal Lie and Presentation; Maternal Pelvis
OG14.3	Describe and discuss rupture uterus, causes, diagnosis and management.	Abnormal Lie and Presentation; Maternal Pelvis
OG14.4	Describe and discuss the classification; diagnosis; management of abnormal labor	Abnormal Lie and Presentation; Maternal Pelvis
OG15.1	Enumerate and describe the indications and steps of common obstetric procedures, technique and complications: Episiotomy, vacuum extraction; low forceps; Caesarean section, assisted breech delivery; external cephalic version; cervical cerclage	Operative obstetrics
OG15.2	Observe and assist in the performance of an episiotomy and demonstrate the correct suturing technique of an episiotomy in a simulated environment. Observe/Assist in operative obstetrics cases – including - CS, Forceps, vacuum extraction, and breech delivery	Operative obstetrics
OG16.1	Enumerate and discuss causes, prevention, diagnosis, management, appropriate use of blood and blood products in postpartum haemorrhage	Complications of the third stage
OG16.2	Describe and discuss uterine inversion – causes, prevention, diagnosis and management.	Complications of the third stage
OG16.3	Describe and discuss causes, clinical features, diagnosis, investigations; monitoring of fetal well-being, including ultrasound and fetal Doppler; principles of management; prevention and counselling in intrauterine growth retardation	Complications of the third stage
OG17.1	Describe and discuss the physiology of lactation	Lactation

OG17.2	Counsel in a simulated environment, care of the breast, importance and the technique of breast feeding	Lactation
OG17.3	Describe and discuss the clinical features, diagnosis and management of mastitis and breast abscess	Lactation
OG18.1	Describe and discuss the assessment of maturity of the newborn, diagnosis of birth asphyxia, principles of resuscitation, common problems	Obstetrics & Gynocology
OG18.2	Demonstrate the steps of neonatal resuscitation in a simulated environment	Obstetrics & Gynocology
OG18.3	Describe and discuss the diagnosis of birth asphyxia	Obstetrics & Gynocology
OG18.4	Describe the principles of resuscitation of the newborn and enumerate the common problems encountered	Obstetrics & Gynocology
OG19.1	Describe and discuss the physiology of puerperium, its complications, diagnosis and management; counselling for contraception, puerperal sterilization	Normal and abnormal puerperium.
OG19.2	Counsel in a simulated environment, contraception and puerperal sterilisation	Obstetrics & Gynaecology
OG19.3	Observe/ assist in the performance of tubal ligation	Normal and abnormal puerperium.
OG19.4	Enumerate the indications for, describe the steps in and insert and remove an intrauterine device in a simulated environment	Normal and abnormal puerperium.
OG2.1	Describe and discuss the development and anatomy of the female reproductive tract, relationship to other pelvic organs, applied anatomy as related to Obstetrics and Gynaecology.	Anatomy of the female reproductive tract (Basic anatomy and embryology)
OG20.1	Enumerate the indications and describe and discuss the legal aspects, indications, methods for first and second trimester MTP; complications and management of complications of Medical Termination of Pregnancy	Medical termination of pregnancy

OG20.2	In a simulated environment administer informed consent to a person wishing to undergo Medical Termination of Pregnancy	Medical termination of pregnancy
OG20.3	Discuss Pre-conception and Pre Natal Diagnostic Techniques (PC& PNDT) Act 1994 & its amendments	Medical termination of pregnancy
OG21.1	Describe and discuss the temporary and permanent methods of contraception, indications, technique and complications; selection of patients, side effects and failure rate including OC, male contraception, emergency contraception and IUCD	Obstetrics & Gynaecology
OG21.2	Describe & discuss PPIUCD programme	Contraception
OG22.1	Describe the clinical characteristics of physiological vaginal discharge.	Vaginal discharge
OG22.2	Describe and discuss the etiology (with special emphasis on Candida, T. vaginalis, bacterial vaginosis), characteristics, clinical diagnosis, investigations, genital hygiene, management of common causes and the syndromic management	Vaginal discharge
OG23.1	Describe and discuss the physiology of puberty, features of abnormal puberty, common problems and their management	Normal and abnormal puberty
OG23.2	Enumerate the causes of delayed puberty. Describe the investigation and management of common causes	Normal and abnormal puberty
OG23.3	Enumerate the causes of precocious puberty	Normal and abnormal puberty
OG24.1	Define, classify and discuss abnormal uterine bleeding, its aetiology, clinical features, investigations, diagnosis and management	Abnormal uterine bleeding
OG25.1	Describe and discuss the causes of primary and secondary amenorrhea, its investigation and the principles of management.	Amenorrhea
OG26.1	Describe and discuss the etiopathogenesis, clinical features; investigation and implications on health and fertility and management of endometriosis and adenomyosis	Genital injuries and fistulae

OG26.2	Describe the causes, prevention, clinical features, principles of management of genital injuries and fistulae	Obstetrics & Gynaecology
OG27.1	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, management and long term implications of sexually transmitted infections	Genital infections
OG27.2	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, management and long term implications of genital tuberculosis	Genital infections
OG27.3	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, management and long term implications of HIV	Genital infections
OG27.4	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, management and long term implications of Pelvic Inflammatory Disease	Genital infections
OG28.1	Describe and discuss the common causes, pathogenesis, clinical features, differential diagnosis; investigations; principles of management of infertility – methods of tubal patency, ovulation induction, assisted reproductive techniques	Infertility
OG28.2	Enumerate the assessment and restoration of tubal latency	Infertility
OG28.3	Describe the principles of ovulation induction	Infertility
OG28.4	Enumerate the various Assisted Reproduction Techniques	Infertility
OG29.1	Describe and discuss the etiology; pathology; clinical features; differential diagnosis; investigations; principles of management, complications of fibroid uterus	Uterine fibroids
OG3.1	Describe the physiology of ovulation, menstruation, fertilization, implantation and gametogenesis.	Physiology of conception

OG30.1	Describe and discuss the etiopathogenesis; clinical features; differential diagnosis; investigations; management, complications of PCOS	PCOS and hirsutism
OG30.2	Enumerate the causes and describe the investigations and management of hyperandrogenism	PCOS and hirsutism
OG31.1	Describe and discuss the etiology, classification, clinical features, diagnosis, investigations, principles of management and preventive aspects of prolapse of uterus	Uterine prolapse
OG32.1	Describe and discuss the physiology of menopause, symptoms, prevention, management and the role of hormone replacement therapy.	Menopause
OG32.2	Enumerate the causes of postmenopausal bleeding and describe its management	Menopause
OG33.1	Classify, describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations and staging of cervical cancer	Benign, Pre-malignant (CIN) and Malignant Lesions of the Cervix
OG33.2	Describe the principles of management including Surgery and radiotherapy of benign, pre-malignant (CIN) and malignant Lesions of the Cervix	Obstetrics & Gynaecology
OG33.3	Describe and demonstrate the screening for cervical cancer in a simulated environment	Obstetrics & Gynaecology
OG33.4	Enumerate the methods to prevent cancer of cervix including visual inspection with acetic acid (VIA), visual inspection of cervix with Lugol's iodine (VILI), pap smear and colposcopy	Benign, Pre-malignant (CIN) and Malignant Lesions of the Cervix
OG34.1	Describe and discuss aetiology, pathology, staging clinical features, differential diagnosis, investigations, staging laparotomy and principles of management of endometrial cancer	Benign and malignant diseases of the uterus and the ovaries

OG34.2	Describe and discuss the etiology, pathology, classification, staging of ovarian cancer, clinical features, differential diagnosis, investigations, principal of management including staging laparotomy	Benign and malignant diseases of the uterus and the ovaries
OG34.3	Describe and discuss the etiology, pathology, classification, staging, clinical features, differential diagnosis, investigations and management of gestational trophoblastic disease	Benign and malignant diseases of the uterus and the ovaries
OG34.4	Operative Gynaecology : Understand and describe the technique and complications: Dilatation & Curettage (D&C); EA-ECC; cervical biopsy; abdominal hysterectomy; myomectomy; surgery for ovarian tumours; staging laparotomy; vaginal hysterectomy including pelvic floor repair; Fothergill's operation, Laparoscopy; hysteroscopy; management of postoperative complications	Benign and malignant diseases of the uterus and the ovaries
OG35.1	Obtain a logical sequence of history, and perform a humane and thorough clinical examination, excluding internal examinations (per- rectal and per-vaginal)	Obstetrics & Gynecological skills - I
OG35.10	Write a proper referral note to secondary or tertiary centres or to other physicians with all necessary details.	Obstetrics & Gynecological skills - I
OG35.11	Demonstrate the correct use of appropriate universal precautions for self-protection against HIV and hepatitis and counsel patients	Obstetrics & Gynecological skills - I
OG35.12	Obtain a PAP smear in a stimulated environment	Obstetrics & Gynecological skills - I
OG35.13	Demonstrate the correct technique to perform artificial rupture of membranes in a simulated / supervised environment	Obstetrics & Gynecological skills - I
OG35.14	Demonstrate the correct technique to perform and suture episiotomies in a simulated/ supervised environment	Obstetrics & Gynecological skills - I

OG35.15	Demonstrate the correct technique to insert and remove an IUD in a simulated/ supervised environment	Obstetrics & Gynecological skills - I
OG35.16	Diagnose and provide emergency management of antepartum and postpartum hemorrhage in a simulated / guided environment	Obstetrics & Gynecological skills - I
OG35.17	Demonstrate the correct technique of urinary catheterisation in a simulated/ supervised environment	Obstetrics & Gynecological skills - I
OG35.2	Arrive at a logical provisional diagnosis after examination.	Obstetrics & Gynecological skills - I
OG35.3	Recognize situations, which call for urgent or early treatment at secondary and tertiary centres and make a prompt referral of such patients after giving first aid or emergency treatment.	Obstetrics & Gynecological skills - I
OG35.4	Demonstrate interpersonal and communication skills befitting a physician in order to discuss illness and its outcome with patient and family	Obstetrics & Gynecological skills - I
OG35.5	Determine gestational age, EDD and obstetric formula	Obstetrics & Gynecological skills - I
OG35.6	Demonstrate ethical behavior in all aspects of medical practice.	Obstetrics & Gynecological skills - I
OG35.7	Obtain informed consent for any examination / procedure	Obstetrics & Gynecological skills - I
OG35.8	Write a complete case record with all necessary details	Obstetrics & Gynecological skills - I
OG35.9	Write a proper discharge summary with all relevant information	Obstetrics & Gynecological skills - I

OG36.1	Plan and institute a line of treatment, which is need based, cost effective and appropriate for common conditions taking into consideration (a) Patient (b) Disease (c) Socio-economic status (d) Institution/ Governmental guidelines.	Obstetrics & Gynecological skills - II
OG36.2	Organise antenatal, postnatal, well-baby and family welfare clinics	Obstetrics & Gynecological skills - II
OG36.3	Demonstrate the correct technique of punch biopsy of uterus in a simulated/ supervised environment	Obstetrics & Gynecological skills - II
OG37.1	Observe and assist in the performance of a Caesarean section	Obstetrics & Gynecological skills - III
OG37.2	Observe and assist in the performance of Laparotomy	Obstetrics & Gynecological skills - III
OG37.3	Observe and assist in the performance of Hysterectomy – abdominal/vaginal	Obstetrics & Gynecological skills - III
OG37.4	Observe and assist in the performance of Dilatation & Curettage (D&C)	Obstetrics & Gynecological skills - III
OG37.5	Observe and assist in the performance of Endometrial aspiration - endocervical curettage (EA-ECC)	Obstetrics & Gynecological skills - III
OG37.6	Observe and assist in the performance of outlet forceps application of vacuum and breech delivery	Obstetrics & Gynecological skills - III
OG37.7	Observe and assist in the performance of MTP in the first trimester and evacuation in incomplete abortion	Obstetrics & Gynecological skills - III
OG38.1	Laparoscopy	Should observe
OG38.2	Hysteroscopy	Should observe
OG38.3	Lap sterilization	Should observe

OG38.4	Assess the need for and issue proper medical certificates to patients for various purposes	Should observe
OG4.1	Describe and discuss the basic embryology of fetus, factors influencing fetal growth and development, anatomy and physiology of placenta, and teratogenesis	Development of the fetus and the placenta
OG5.1	Describe, discuss and identify pre-existing medical disorders and discuss their management; discuss evidence-based intrapartum care	Preconception counselling
OG5.2	Determine maternal high risk factors and verify immunization status	Preconception counselling
OG6.1	Describe, discuss and demonstrate the clinical features of pregnancy, derive and discuss its differential diagnosis, elaborate the principles underlying and interpret pregnancy tests.	Diagnosis of pregnancy
OG7.1	Describe and discuss the changes in the genital tract, cardiovascular system, respiratory, haematology, renal and gastrointestinal system in pregnancy	Maternal Changes in pregnancy
OG8.1	Enumerate describe and discuss the objectives of antenatal care, assessment of period of gestation; screening for high-risk factors	Obstetrics & Gynaecology
OG8.2	Elicit document and present an obstetric history including menstrual history, last menstrual period, previous obstetric history, comorbid conditions, past medical history and surgical history	Antenatal Care
OG8.3	Describe, demonstrate, document and perform an obstetrical examination including a general and abdominal examination and clinical monitoring of maternal and fetal well-being;	Antenatal Care
OG8.4	Describe and demonstrate clinical monitoring of maternal and fetal well-being	Antenatal Care
OG8.5	Describe and demonstrate pelvic assessment in a model	Antenatal Care
OG8.6	Assess and counsel a patient in a simulated environment regarding appropriate nutrition in pregnancy	Antenatal Care

OG8.7	Enumerate the indications for and types of vaccination in pregnancy	Antenatal Care
OG8.8	Enumerate the indications and describe the investigations including the use of ultrasound in the initial assessment and monitoring in pregnancy	Antenatal Care
OG9.1	Classify, define and discuses the aetiology and management of abortions including threatened, incomplete, inevitable, missed and septic	Complications in early pregnancy
OG9.2	Describe the steps and observe/ assist in the performance of an MTP evacuation	Complications in early pregnancy
OG9.3	Discuss the aetiology, clinical features, differential diagnosis of acute abdomen in early pregnancy (with a focus on ectopic pregnancy) and enumerate the principles of medical and surgical management	Complications in early pregnancy
OG9.4	Discuss the clinical features, laboratory investigations, ultrasonography, differential diagnosis, principles of management and follow up of gestational trophoblastic neoplasms	Complications in early pregnancy
OG9.5	Describe the etiopathology, impact on maternal and fetal health and principles of management of hyperemesis gravidarum	Complications in early pregnancy
OP1.1	Describe the physiology of vision	Visual Acuity Assessment
OP1.2	Define, classify and describe the types and methods of correcting refractive errors	Visual Acuity Assessment
OP1.3	Demonstrate the steps in performing the visual acuity assessment for distance vision, near vision, colour vision, the pin hole test and the menace and blink reflexes	Visual Acuity Assessment
OP1.4	Enumerate the indications and describe the principles of refractive surgery	Visual Acuity Assessment
OP1.5	Define, enumerate the types and the mechanism by which strabismus leads to amblyopia	Visual Acuity Assessment

OP2.1	Enumerate the causes, describe and discuss the aetiology, clinical presentations and diagnostic features of common conditions of the lid and adnexa including Hordeolum externum/ internum, blepharitis, preseptal cellulitis, dacryocystitis, hemangioma, dermoid, ptosis, entropion, lid lag, lagopthalmos	Lids and Adnexa, Orbit
OP2.2	Demonstrate the symptoms & clinical signs of conditions enumerated in OP2.1	Lids and Adnexa, Orbit
OP2.3	Demonstrate under supervision clinical procedures performed in the lid including: bells phenomenon, assessment of entropion/ ectropion, perform the regurgitation test of lacrimal sac. massage technique in cong. dacryocystitis, and trichiatic cilia removal by epilation	Lids and Adnexa, Orbit
OP2.4	Describe the aetiology, clinical presentation. Discuss the complications and management of orbital cellulitis	Lids and Adnexa, Orbit
OP2.5	Describe the clinical features on ocular examination and management of a patient with cavernous sinus thrombosis	Lids and Adnexa, Orbit
OP2.6	Enumerate the causes and describe the differentiating features, and clinical features and management of proptosis	Lids and Adnexa, Orbit
OP2.7	Classify the various types of orbital tumours. Differentiate the symptoms and signs of the presentation of various types of ocular tumours	Lids and Adnexa, Orbit
OP2.8	List the investigations helpful in diagnosis of orbital tumors. Enumerate the indications for appropriate referral	Lids and Adnexa, Orbit
OP3.1	Elicit document and present an appropriate history in a patient presenting with a “red eye” including congestion, discharge, pain	Conjunctiva
OP3.2	Demonstrate document and present the correct method of examination of a “red eye” including vision assessment, corneal lustre, pupil abnormality, ciliary tenderness	Conjunctiva

OP3.3	Describe the aetiology, pathophysiology, ocular features, differential diagnosis, complications. and management of various causes of conjunctivitis	Conjunctiva
OP3.4	Describe the aetiology, pathophysiology, ocular features, differential diagnosis, complications and management of trachoma.	Conjunctiva
OP3.5	Describe the aetiology, pathophysiology, ocular features, differential diagnosis, complications and management of vernal catarrh	Conjunctiva
OP3.6	Describe the aetiology, pathophysiology, ocular features, differential diagnosis, complications and management of pterygium	Conjunctiva
OP3.7	Describe the aetiology, pathophysiology, ocular features, differential diagnosis, complications and management of symblepharon	Conjunctiva
OP3.8	Demonstrate correct technique of removal of foreign body from the eye in a simulated environment	Conjunctiva
OP3.9	Demonstrate the correct technique of instillation of eye drops in a simulated environment	Conjunctiva
OP4.1	Enumerate, describe and discuss the types and causes of corneal ulceration	Corneas
OP4.10	Counsel patients and family about eye donation in a simulated environment	Corneas
OP4.2	Enumerate and discuss the differential diagnosis of infective keratitis	Corneas
OP4.3	Enumerate the causes of corneal edema	Corneas
OP4.4	Enumerate the causes and discuss the management of dry eye	Corneas
OP4.5	Enumerate the causes of corneal blindness	Corneas
OP4.6	Enumerate the indications and the types of keratoplasty	Corneas
OP4.7	Enumerate the indications and describe the methods of tarsorraphy	Corneas
OP4.8	Demonstrate technique of removal of foreign body in the cornea in a simulated environment	Corneas

OP4.9	Describe and discuss the importance and protocols involved in eye donation and eye banking	Corneas
OP5.1	Define, enumerate and describe the aetiology, associated systemic conditions, clinical features complications indications for referral and management of episcleritis	Sclera
OP5.2	Define, enumerate and describe the aetiology, associated systemic conditions, clinical features, complications, indications for referral and management of scleritis	Ophthalmology
OP6.1	Describe clinical signs of intraocular inflammation and enumerate the features that distinguish granulomatous from non-granulomatous inflammation. Identify acute iridocyclitis from chronic condition	Iris and Anterior chamber
OP6.10	Counsel patients with conditions of the iris and anterior chamber about their diagnosis, therapy and prognosis in an empathetic manner in a simulated environment	Iris and Anterior chamber
OP6.2	Identify and distinguish acute iridocyclitis from chronic iridocyclitis	Iris and Anterior chamber
OP6.3	Enumerate systemic conditions that can present as iridocyclitis and describe their ocular manifestations	Ophthalmology
OP6.4	Describe and distinguish hyphema and hypopyon	Iris and Anterior chamber
OP6.5	Describe and discuss the angle of the anterior chamber and its clinical correlates	Iris and Anterior chamber
OP6.6	Identify and demonstrate the clinical features and distinguish and diagnose common clinical conditions affecting the anterior chamber	Iris and Anterior chamber
OP6.7	Enumerate and discuss the aetiology, the clinical distinguishing features of various glaucomas associated with shallow and deep anterior chamber. Choose appropriate investigations and treatment for patients with above conditions.	Iris and Anterior chamber

OP6.8	Enumerate and choose the appropriate investigation for patients with conditions affecting the Uvea	Iris and Anterior chamber
OP6.9	Choose the correct local and systemic therapy for conditions of the anterior chamber and enumerate their indications, adverse events and interactions	Iris and Anterior chamber
OP7.1	Describe the surgical anatomy and the metabolism of the lens	Lens
OP7.2	Describe and discuss the aetio-pathogenesis, stages of maturation and complications of cataract	Lens
OP7.3	Demonstrate the correct technique of ocular examination in a patient with a cataract	Lens
OP7.4	Enumerate the types of cataract surgery and describe the steps, intra-operative and post-operative complications of extracapsular cataract extraction surgery.	Lens
OP7.5	To participate in the team for cataract surgery	Lens
OP7.6	Administer informed consent and counsel patients for cataract surgery in a simulated environment	Lens
OP8.1	Discuss the aetiology, pathology, clinical features and management of vascular occlusions of the retina	Retina & optic Nerve
OP8.2	Enumerate the indications for laser therapy in the treatment of retinal diseases (including retinal detachment, retinal degenerations, diabetic retinopathy & hypertensive retinopathy)	Retina & optic Nerve
OP8.3	Demonstrate the correct technique of a fundus examination and describe and distinguish the funduscopic features in a normal condition and in conditions causing an abnormal retinal exam	Retina & optic Nerve
OP8.4	Enumerate and discuss treatment modalities in management of diseases of the retina	Retina & optic Nerve
OP8.5	Describe and discuss the correlative anatomy, aetiology, clinical manifestations, diagnostic tests, imaging and management of diseases of the optic nerve and visual pathway	Retina & optic Nerve

OP9.1	Demonstrate the correct technique to examine extra ocular movements (Uniocular & Binocular)	Miscellaneous
OP9.2	Classify, enumerate the types, methods of diagnosis and indications for referral in a patient with heterotropia/ strabismus	Miscellaneous
OP9.3	Describe the role of refractive error correction in a patient with headache and enumerate the indications for referral	Ophthalmology
OP9.4	Enumerate, describe and discuss the causes of avoidable blindness and the National Programs for Control of Blindness (including vision 2020)	Ophthalmology
OP9.5	Describe the evaluation and enumerate the steps involved in the stabilisation, initial management and indication for referral in a patient with ocular injury	Miscellaneous
OR1.1	Describe and discuss the principles of pre-hospital care and casuality management of a trauma victim including principles of triage	Orthopedics
OR1.2	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of shock	Orthopedics
OR1.3	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of soft tissue injuries	Orthopedics
OR1.4	Describe and discuss the principles of management of soft tissue injuries	Orthopedics
OR1.5	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of dislocation of major joints, shoulder, knee, hip	Skeletal Trauma, Poly trauma
OR1.6	Participate as a member in the team for closed reduction of shoulder dislocation / hip dislocation / knee dislocation	Skeletal Trauma, Poly trauma
OR10.1	Describe and discuss the aetiopathogenesis, clinical features, Investigations and principles of management of benign and malignant bone tumours and pathological fractures	Orthopedics

OR11.1	Describe and discuss the aetiopathogenesis, Clinical features, Investigations and principles of management of peripheral nerve injuries in diseases like foot drop, wrist drop, claw hand, palsies of Radial, Ulnar, Median, Lateral Popliteal and Sciatic Nerves	Orthopaedics
OR12.1	Describe and discuss the clinical features, investigations and principles of management of Congenital and acquired malformations and deformities of: a. limbs and spine - Scoliosis and spinal bifida b. Congenital dislocation of Hip,Torticollis, c. congenital talipes equino varus	Congenital lesions
OR13.1	Participate in a team for procedures in patients and demonstrating the ability to perform on mannequins / simulated patients in the following: i. Above elbow plaster ii. Below knee plaster iii. Above knee plaster iv. Thomas splint v. splinting for long bone fractures vi. Strapping for shoulder and clavicle trauma	Procedural Skills
OR13.2	Participate as a member in team for Resuscitation of Polytrauma victim by doing all of the following : (a) I.V. access central - peripheral (b) Bladder catheterization (c) Endotracheal intubation (d) Splintage	Procedural Skills
OR14.1	Demonstrate the ability to counsel patients regarding prognosis in patients with various orthopedic illnesses like a. fractures with disabilities b. fractures that require prolonged bed stay c. bone tumours d. congenital disabilities	Counselling Skills
OR14.2	Demonstrate the ability to counsel patients to obtain consent for various orthopedic procedures like limp amputation, permanent fixations etc..	Counselling Skills

OR14.3	Demonstrate the ability to convince the patient for referral to a higher centre in various orthopedic illnesses, based on the detection of warning signals and need for sophisticated management	Counselling Skills
OR2.1	Describe and discuss the mechanism of Injury, clinical features, investigations and plan management of fracture of clavicle	Fractures
OR2.10	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of proximal femur	Fractures
OR2.11	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of (a) Fracture patella (b) Fracture distal femur (c) Fracture proximal tibia with special focus on neurovascular injury and compartment syndrome	Fractures
OR2.12	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of Fracture shaft of femur in all age groups and the recognition and management of fat embolism as a complication	Fractures
OR2.13	Describe and discuss the aetiopathogenesis, clinical features, Investigation and principles of management of: (a) Fracture both bones leg (b) Calcaneus (c) Small bones of foot	Fractures
OR2.14	Describe and discuss the aetiopathogenesis, clinical features, Investigation and principles of management of ankle fractures	Fractures
OR2.15	Plan and interpret the investigations to diagnose complications of fractures like malunion, non-union, infection, compartmental syndrome	Fractures
OR2.16	Describe and discuss the mechanism of injury, clinical features, investigations and principles of management of open fractures with focus on secondary infection prevention and management	Fractures

OR2.2	Describe and discuss the mechanism of Injury, clinical features, investigations and plan management of fractures of proximal humerus	Fractures
OR2.3	Select, prescribe and communicate appropriate medications for relief of joint pain	Fractures
OR2.4	Describe and discuss the mechanism of injury, clinical features, investigations and principles of management of fracture of shaft of humerus and intercondylar fracture humerus with emphasis on neurovasular deficit	Fractures
OR2.5	Describe and discuss the aetiopathogenesis, clinical features, mechanism of injury, investigation & principles of management of fractures of both bones forearm and Galeazzi and Monteggia injury	Fractures
OR2.6	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of distal radius	Fractures
OR2.7	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of pelvic injuries with emphasis on hemodynamic instability	Fractures
OR2.8	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of spine injuries with emphasis on mobilisation of the patient	Fractures
OR2.9	Describe and discuss the mechanism of injury, Clinical features, investigations and principle of management of acetabular fracture	Fractures

OR3.1	Describe and discuss the aetiopathogenesis, clinical features, Investigations and principles of management of Bone and Joint infections a) Acute Osteomyelitis b) Subacute osteomyelitis c) Acute Suppurative arthritis d) Septic arthritis & HIV infection e) Spirochaetal infection f) Skeletal Tuberculosis	Orthopedics
OR3.2	Participate as a member in team for aspiration of joints under supervision	Musculoskeletal Infection
OR3.3	Participate as a member in team for procedures like drainage of abscess, sequestrectomy/ saucerisation and arthrotomy	Orthopedics
OR4.1	Describe and discuss the clinical features, Investigation and principles of management of Tuberculosis affecting major joints (Hip, Knee) including cold abcess and caries spine	Orthopedics
OR5.1	Describe and discuss the aetiopathogenesis, clinical features, Investigations and principles of management of various inflammatory disorder of joints	Orthopaedics
OR6.1	Describe and discuss the clinical features, investigations and principles of management of degenerative condition of spine (Cervical Spondylosis, Lumbar Spondylosis, PID)	Degenerative disorders
OR7.1	Describe and discuss the aetiopathogenesis, clinical features, investigation and principles of management of metabolic bone disorders in particular osteoporosis, osteomalacia, rickets, Paget's disease	Metabolic bone disorders
OR8.1	Describe and discuss the aetiopathogenesis, clinical features, assessment and principles of management a patient with Post Polio Residual Paralysis	Poliomyelitis
OR9.1	Describe and discuss the aetiopathogenesis, clinical features, assessment and principles of management of Cerebral palsy patient	Cerebral Palsy

PA 17.1	Enumerate the etiology, pathogenesis and findings in aplastic anemia	Pathology
PA`18.2	Describe the etiology, genetics, pathogenesis classification, features, hematologic features of acute and chronic leukemia	Leukocyte disorders
PA1.1	Describe the role of a pathologist in diagnosis and management of disease	Introduction to Pathology
PA1.2	Enumerate common definitions and terms used in Pathology	Introduction to Pathology
PA1.3	Describe the history and evolution of Pathology	Introduction to Pathology
PA10.1	Define and describe the pathogenesis and pathology of malaria	Pathology
PA10.2	Define and describe the pathogenesis and pathology of cysticercosis	Pathology
PA10.3	Define and describe the pathogenesis and pathology of leprosy	Pathology
PA10.4	Define and describe the pathogenesis and pathology of common bacterial, viral, protozoal and helminthic diseases	Pathology
PA11.1	Describe the pathogenesis and features of common cytogenetic abnormalities and mutations in childhood	Genetic and paediatric diseases
PA11.2	Describe the pathogenesis and pathology of tumor and tumour- like conditions in infancy and childhood	Genetic and paediatric diseases
PA11.3	Describe the pathogenesis of common storage disorders in infancy and childhood	Genetic and paediatric diseases
PA12.1	Enumerate and describe the pathogenesis of disorders caused by air pollution, tobacco and alcohol	Pathology
PA12.2	Describe the pathogenesis of disorders caused by protein calorie malnutrition and starvation	Pathology
PA12.3	Describe the pathogenesis of obesity and its consequences	Pathology
PA13.1	Describe hematopoiesis and extramedullary hematopoiesis	Pathology
PA13.2	Describe the role of anticoagulants in hematology	Pathology
PA13.3	Define and classify anemia	Pathology

PA13.4	Enumerate and describe the investigation of anemia	Pathology
PA13.5	Perform, Identify and describe the peripheral blood picture in anemia	Pathology
PA14.1	Describe iron metabolism	Pathology
PA14.2	Describe the etiology, investigations and differential diagnosis of microcytic hypochromic anemia	Pathology
PA14.3	Identify and describe the peripheral smear in microcytic anemia	Pathology
PA15.1	Describe the metabolism of Vitamin B12 and the etiology and pathogenesis of B12 deficiency	Pathology
PA15.2	Describe the laboratory investigations of macrocytic anemia	Pathology
PA15.3	Identify and describe the peripheral blood picture of macrocytic anemia	Macrocytic anemia
PA15.4	Enumerate the differences and describe the etiology and distinguishing features of megaloblastic and non-megaloblastic macrocytic anemia	Pathology
PA16.1	Define and classify hemolytic anemia	Pathology
PA16.2	Describe the pathogenesis and clinical features and hematologic indices of hemolytic anemia	Pathology
PA16.3	Describe the pathogenesis, features, hematologic indices and peripheral blood picture of sickle cell anemia and thalassemia	Pathology
PA16.4	Describe the etiology pathogenesis, hematologic indices and peripheral blood picture of Acquired hemolytic anemia	Pathology
PA16.5	Describe indices and peripheral blood smear	Pathology
PA16.6	Prepare a peripheral blood smear and identify hemolytic anaemia from it	Hemolytic anemia
PA16.7	Discribe the correct technique to perform a cross match	Hemolytic anemia
PA17.2	Enumerate the indications and describe the findings in bone marrow aspiration and biopsy	Pathology
PA18.1	Enumerate and describe the causes of leucocytosis leucopenia lymphocytosis and leukemoid reactions	Leukocyte disorders

PA19.1	Enumerate the causes and describe the differentiating features of lymphadenopathy	Pathology
PA19.2	Describe the pathogenesis and pathology of tuberculous lymphadenitis	Pathology
PA19.3	Identify and describe the features of tuberculous lymphadenitis in a gross and microscopic specimen	Lymph node and spleen
PA19.4	Describe and discuss the pathogenesis pathology and the differentiating features of Hodgkin's and non-Hodgkin's lymphoma	Pathology
PA19.5	Identify and describe the features of Hodgkin's lymphoma in a gross and microscopic specimen	Pathology
PA19.6	Enumerate and differentiate the causes of splenomegaly	Pathology
PA19.7	Identify and describe the gross specimen of an enlarged spleen	Lymph node and spleen
PA2.1	Demonstrate knowledge of the causes, mechanisms, types and effects of cell injury and their clinical significance	Cell Injury and Adaptation
PA2.2	Describe the etiology of cell injury. Distinguish between reversible-irreversible injury: mechanisms; morphology of cell injury	Cell Injury and Adaptation
PA2.3	Intracellular accumulation of fats, proteins, carbohydrates, pigments	Cell Injury and Adaptation
PA2.4	Describe and discuss Cell death- types, mechanisms, necrosis, apoptosis (basic as contrasted with necrosis), autolysis	Cell Injury and Adaptation
PA2.5	Describe and discuss pathologic calcifications, gangrene	Cell Injury and Adaptation
PA2.6	Describe and discuss cellular adaptations: atrophy, hypertrophy, hyperplasia, metaplasia, dysplasia	Cell Injury and Adaptation
PA2.7	Describe and discuss the mechanisms of cellular aging and apoptosis	Cell Injury and Adaptation
PA2.8	Identify and describe various forms of cell injuries, their manifestations and consequences in gross and microscopic specimens	Cell Injury and Adaptation
PA20.1	Describe the features of plasma cell myeloma	Plasma cell disorders

PA21.1	Describe normal hemostasis	Hemorrhagic disorders
PA21.2	Classify and describe the etiology, pathogenesis and pathology of vascular and platelet disorders including ITP and hemophilias	Pathology
PA21.3	Differentiate platelet from clotting disorders based on the clinical and hematologic features	Pathology
PA21.4	Define and describe disseminated intravascular coagulation, its laboratory findings and diagnosis of disseminated intravascular coagulation	Pathology
PA21.5	Define and describe disseminated intravascular coagulation its laboratory findings and diagnosis of Vitamin K deficiency	Pathology
PA22.1	Classify and describe blood group systems (ABO and RH)	Blood banking and transfusion
PA22.2	Enumerate the indications describe the principles enumerate and demonstrate the steps of compatibility testing	Pathology
PA22.4	Enumerate blood components and describe their clinical uses	Pathology
PA22.5	Enumerate and describe infections transmitted by blood transfusion	Blood banking and transfusion
PA22.6	Describe transfusion reactions and enumerate the steps in the investigation of a transfusion reaction	Pathology
PA22.7	Enumerate the indications and describe the principles and procedure of autologous transfusion	Blood banking and transfusion
PA23.1	Describe abnormal urinary findings in disease states and identify and describe common urinary abnormalities in a clinical specimen	Clinical Pathology
PA23.2	Describe abnormal findings in body fluids in various disease states	Clinical Pathology
PA23.3	Describe and interpret the abnormalities in a panel containing semen analysis, thyroid function tests, renal function tests or liver function tests	Clinical Pathology
PA24.1	Describe the etiology, pathogenesis, pathology and clinical features of oral cancers	Pathology

PA24.2	Describe the etiology, pathogenesis, pathology, microbiology, clinical and microscopic features of peptic ulcer disease	Pathology
PA24.3	Describe and identify the microscopic features of peptic ulcer	Pathology
PA24.4	Describe and etiology and pathogenesis and pathologic features of carcinoma of the stomach	Pathology
PA24.5	Describe and etiology and pathogenesis and pathologic features of Tuberculosis of the intestine	Pathology
PA24.6	Describe and etiology and pathogenesis and pathologic and distinguishing features of inflammatory bowel disease	Pathology
PA24.7	Describe the etiology and pathogenesis and pathologic and distinguishing features of carcinoma of the colon	Pathology
PA25.1	Describe bilirubin metabolism, enumerate the etiology and pathogenesis of jaundice, distinguish between direct and indirect hyperbilirubinemia	Pathology
PA25.2	Describe the pathophysiology and pathologic changes seen in hepatic failure and their clinical manifestations, complications and consequences	Pathology
PA25.3	Describe the etiology and pathogenesis of viral and toxic hepatitis: distinguish the causes of hepatitis based on the clinical and laboratory features. Describe the pathology, complications and consequences of hepatitis	Pathology
PA25.4	Describe the pathophysiology, pathology and progression of alcoholic liver disease including cirrhosis	Pathology
PA25.5	Describe the etiology, pathogenesis and complications of portal hypertension	Pathology
PA25.6	Interpret a liver function and viral hepatitis serology panel. Distinguish obstructive from non obstructive jaundice based on clinical features and liver function tests	Pathology
PA26.1	Define and describe the etiology, types, pathogenesis, stages, morphology and complications of pneumonia	Pathology

PA26.2	Describe the etiology, gross and microscopic appearance and complications of lung abscess	Pathology
PA26.3	Define and describe the etiology, types, pathogenesis, stages, morphology and complications and evaluation of Obstructive airway disease (OAD) and bronchiectasis	Pathology
PA26.4	Define and describe the etiology, types, pathogenesis, stages, morphology microscopic appearance and complications of tuberculosis	Pathology
PA26.5	Define and describe the etiology, types, exposure, environmental influence, pathogenesis, stages, morphology, microscopic appearance and complications of Occupational lung disease	Pathology
PA26.6	Define and describe the etiology, types, exposure, genetics environmental influence, pathogenesis, stages, morphology, microscopic appearance,metastases and complications of tumors of the lung and pleura	Pathology
PA26.7	Define and describe the etiology, types, exposure, genetics environmental influence, pathogenesis, morphology, microscopic appearance and complications of mesothelioma	Pathology
PA27.1	Distinguish arteriosclerosis from atherosclerosis. Describe the pathogenesis and pathology of various causes and types of arteriosclerosis	Pathology
PA27.10	Describe the etiology, pathophysiology, pathology features and complications of syphilis on the cardiovascular system	Pathology
PA27.2	Describe the etiology, dynamics, pathology types and complications of aneurysms including aortic aneurysms	Pathology
PA27.3	Describe the etiology, types, stages pathophysiology pathology and complications of heat failure	Pathology
PA27.4	Describe the etiology, pathophysiology, pathology, gross and microscopic, features, criteria and complications of rheumatic fever	Pathology

PA27.5	Describe the epidemiology, risk factors, etiology, pathophysiology, pathology, presentations, gross and microscopic, features, diagnostic tests and complications of ischemic heart disease	Pathology
PA27.6	Describe the etiology, pathophysiology, pathology, gross and microscopic, features diagnosis and complications of infective endocarditis	Pathology
PA27.7	Describe the etiology, pathophysiology, pathology, gross and microscopic, features diagnosis and complications of pericarditis and pericardial effusion	Pathology
PA27.8	Interpret abnormalities in cardiac function testing in acute coronary syndromes	Pathology
PA27.9	Classify and describe the etiology, types, pathophysiology, pathology, gross and microscopic features, diagnosis and complications of cardiomyopathies	Pathology
PA28.1	Describe the normal histology of the kidney	Urinary Tract
PA28.10	Describe the etiology, pathogenesis, pathology, laboratory findings, distinguishing features progression and complications of acute and chronic pyelonephritis and reflux nephropathy	Pathology
PA28.11	Define classify and describe the etiology, pathogenesis pathology, laboratory, urinary findings, distinguishing features, progression and complications of vascular disease of the kidney	Pathology
PA28.12	Define classify and describe the genetics, inheritance etiology, pathogenesis, pathology, laboratory, urinary findings, distinguishing features, progression and complications of cystic disease of the kidney	Pathology
PA28.13	Define, classify and describe the etiology, pathogenesis, pathology, laboratory urinary findings, distinguishing features, progression and complications of renal stone disease and obstructive uropathy	Pathology

PA28.14	Classify and describe the etiology, genetics, pathogenesis, pathology, presenting features, progression and spread of renal tumors	Pathology
PA28.15	Describe the etiology, genetics, pathogenesis, pathology, presenting features and progression of thrombotic angiopathies	Pathology
PA28.16	Describe the etiology, genetics, pathogenesis, pathology, presenting features and progression of urothelial tumors	Pathology
PA28.2	Define, classify and distinguish the clinical syndromes and describe the etiology, pathogenesis, pathology, morphology, clinical and laboratory and urinary findings, complications of renal failure	Urinary Tract
PA28.3	Define and describe the etiology, precipitating factors, pathogenesis, pathology, laboratory urinary findings, progression and complications of acute renal failure	Pathology
PA28.4	Define and describe the etiology, precipitating factors, pathogenesis, pathology, laboratory urinary findings progression and complications of chronic renal failure	Pathology
PA28.5	Define and classify glomerular diseases. Enumerate and describe the etiology, pathogenesis, mechanisms of glomerular injury, pathology, distinguishing features and clinical manifestations of glomerulonephritis	Pathology
PA28.6	Define and describe the etiology, pathogenesis, pathology, laboratory, urinary findings, progression and complications of IgA nephropathy	Pathology
PA28.7	Enumerate and describe the findings in glomerular manifestations of systemic disease	Pathology
PA28.8	Enumerate and classify diseases affecting the tubular interstitium	Pathology
PA28.9	Define and describe the etiology, pathogenesis, pathology, laboratory, urinary findings, progression and complications of acute tubular necrosis	Pathology

PA29.1	Classify testicular tumors and describe the pathogenesis, pathology, presenting and distinguishing features, diagnostic tests, progression and spread of testicular tumors	Pathology
PA29.2	Describe the pathogenesis, pathology, presenting and distinguishing features, diagnostic tests, progression and spread of carcinoma of the penis	Pathology
PA29.3	Describe the pathogenesis, pathology, hormonal dependency, presenting and distinguishing features, urologic findings and diagnostic tests of benign prostatic hyperplasia	Pathology
PA29.4	Describe the pathogenesis, pathology, hormonal dependency, presenting and distinguishing features, diagnostic tests, progression and spread of carcinoma of the prostate	Pathology
PA29.5	Describe the etiology, pathogenesis, pathology and progression of prostatitis	Pathology
PA3.1	Describe the pathogenesis and pathology of amyloidosis	Amyloidosis
PA3.2	Identify and describe amyloidosis in a pathology specimen	Amyloidosis
PA30.1	Describe the epidemiology, pathogenesis, etiology, pathology, screening, diagnosis and progression of carcinoma of the cervix	Pathology
PA30.2	Describe the pathogenesis, etiology, pathology, diagnosis and progression and spread of carcinoma of the endometrium	Pathology
PA30.3	Describe the pathogenesis, etiology, pathology, diagnosis and progression and spread of carcinoma of the leiomyomas and leiomyosarcomas	Pathology
PA30.4	Classify and describe the etiology, pathogenesis, pathology, morphology, clinical course, spread and complications of ovarian tumors	Pathology
PA30.5	Describe the etiology, pathogenesis, pathology, morphology, clinical course, spread and complications of gestational trophoblastic neoplasms	Pathology

PA30.6	Describe the etiology and morphologic features of cervicitis	Pathology
PA30.7	Describe the etiology, hormonal dependence, features and morphology of endometriosis	Pathology
PA30.8	Describe the etiology and morphologic features of adenomyosis	Pathology
PA30.9	Describe the etiology, hormonal dependence and morphology of endometrial hyperplasia	Pathology
PA31.1	Classify and describe the types, etiology, pathogenesis, pathology and hormonal dependency of benign breast disease	Pathology
PA31.2	Classify and describe the epidemiology, pathogenesis, classification, morphology, prognostic factors, hormonal dependency, staging and spread of carcinoma of the breast	Pathology
PA31.3	Describe and identify the morphologic and microscopic features of carcinoma of the breast	Pathology
PA31.4	Enumerate and describe the etiology, hormonal dependency and pathogenesis of gynecomastia	Pathology
PA32.1	Enumerate, classify and describe the etiology, pathogenesis, pathology and iodine dependency of thyroid swellings	Pathology
PA32.2	Describe the etiology, cause, iodine dependency, pathogenesis, manifestations, laboratory and imaging features and course of thyrotoxicosis	Pathology
PA32.3	Describe the etiology, pathogenesis, manifestations, laboratory and imaging features and course of thyrotoxicosis/ hypothyroidism	Pathology
PA32.4	Classify and describe the epidemiology, etiology, pathogenesis, pathology, clinical laboratory features, complications and progression of diabetes mellitus	Pathology
PA32.5	Describe the etiology, genetics, pathogenesis, manifestations, laboratory and morphologic features of hyperparathyroidism	Pathology
PA32.6	Describe the etiology, pathogenesis, manifestations, laboratory, morphologic features, complications and metastases of pancreatic cancer	Pathology

PA32.7	Describe the etiology, pathogenesis, manifestations, laboratory, morphologic features, complications of adrenal insufficiency	Pathology
PA32.8	Describe the etiology, pathogenesis, manifestations, laboratory, morphologic features, complications of Cushing's syndrome	Pathology
PA32.9	Describe the etiology, pathogenesis, manifestations, laboratory and morphologic features of adrenal neoplasms	Pathology
PA33.1	Classify and describe the etiology, pathogenesis, manifestations, radiologic and morphologic features and complications of osteomyelitis	Pathology
PA33.2	Classify and describe the etiology, pathogenesis, manifestations, radiologic and morphologic features and complications and metastases of bone tumors	Pathology
PA33.3	Classify and describe the etiology, pathogenesis, manifestations, radiologic and morphologic features and complications and metastases of soft tissue tumors	Pathology
PA33.4	Classify and describe the etiology, pathogenesis, manifestations, radiologic and morphologic features and complications of Paget's disease of the bone	Pathology
PA33.5	Classify and describe the etiology, immunology, pathogenesis, manifestations, radiologic and laboratory features, diagnostic criteria and complications of rheumatoid arthritis	Pathology
PA34.1	Describe the risk factors, pathogenesis, pathology and natural history of squamous cell carcinoma of the skin	Pathology
PA34.2	Describe the risk factors, pathogenesis, pathology and natural history of basal cell carcinoma of the skin	Pathology
PA34.3	Describe the distinguishing features between a nevus and melanoma. Describe the etiology, pathogenesis, risk factors, morphology, clinical features and metastases of melanoma	Pathology

PA34.4	Identify, distinguish and describe common tumors of the skin	Pathology
PA35.1	Describe the etiology, types and pathogenesis, differentiating factors, CSF findings in meningitis	Pathology
PA35.2	Classify and describe the etiology, genetics, pathogenesis, pathology, presentation sequelae and complications of CNS tumors	Pathology
PA35.3	Identify the etiology of meningitis based on given CSF parameters	Pathology
PA36.1	Describe the etiology, genetics, pathogenesis, pathology, presentation, sequelae and complications of retinoblastoma	Pathology
PA4.1	Define and describe the general features of acute and chronic inflammation including stimuli, vascular and cellular events	Pathology
PA4.2	Enumerate and describe the mediators of acute inflammation	Pathology
PA4.3	Define and describe chronic inflammation including causes, types, non-specific and granulomatous; and enumerate examples of each	Inflammation
PA4.4	Identify and describe acute and chronic inflammation in gross and microscopic specimens	Inflammation
PA5.1	Define and describe the process of repair and regeneration including wound healing and its types	Pathology
PA6.1	Define and describe edema its types pathogenesis and clinical correlations	Pathology
PA6.2	Define and describe hyperemia, congestion, hemorrhage	Hemodynamic disorders
PA6.3	Define and describe shock, its pathogenesis and its stages	Pathology
PA6.4	Define and describe normal haemostasis and the etiopathogenesis and consequences of thrombosis	Hemodynamic disorders
PA6.5	Define and describe embolism and its causes and common types	Hemodynamic disorders
PA6.6	Define and describe Ischaemia/infarction its types, etiology, morphologic changes and clinical effects	Hemodynamic disorders

PA6.7	Identify and describe the gross and microscopic features of infarction in a pathologic specimen	Hemodynamic disorders
PA7.1	Define and classify neoplasia. Describe the characteristics of neoplasia including gross, microscopy, biologic, behaviour and spread. Differentiate between benign from maignant neoplams	Neoplastic disorders
PA7.2	Describe the molecular basis of cancer	Neoplastic disorders
PA7.3	Enumerate carcinogens and describe the process of carcinogenesis	Neoplastic disorders
PA7.4	Describe the effects of tumor on the host including paraneoplastic syndrome	Neoplastic disorders
PA7.5	Describe immunology and the immune response to cancer	Neoplastic disorders
PA8.1	Describe the diagnostic role of cytology and its application in clinical care	Pathology
PA8.2	Describe the basis of exfoliative cytology including the technique, stains used	Pathology
PA8.3	Observe a diagnostic cytology and its staining and interpret the specimen	Basic diagnostic cytology
PA9.1	Describe the principles and mechanisms involved in immunity	Immunopathology and AIDS
PA9.2	Describe the mechanism of hypersensitivity reactions	Immunopathology and AIDS
PA9.3	Describe the HLA system and the immune principles involved in transplant and mechanism of transplant rejection	Immunopathology and AIDS
PA9.4	Define autoimmunity. Enumerate autoimmune disorders	Pathology
PA9.5	Define and describe the pathogenesis of systemic lupus erythematosus	Pathology
PA9.6	Define and describe the pathogenesis and pathology of HIV and AIDS	Pathology
PA9.7	Define and describe the pathogenesis of other common autoimmune diseases	Pathology

PE.27.29	Discuss the common causes, clinical presentation, medico-legal implications of abuse	Pediatric Emergencies – Common Pediatric Emergencies
PE1.1	Define the terminologies Growth and development and discuss the factors affecting normal growth and development	Normal Growth and Development
PE1.2	Discuss and describe the patterns of growth in infants, children and adolescents	Normal Growth and Development
PE1.3	Discuss and describe the methods of assessment of growth including use of WHO and Indian national standards. Enumerate the parameters used for assessment of physical growth in infants, children and adolescents	Normal Growth and Development
PE1.4	Perform Anthropometric measurements, document in growth charts and interpret	Normal Growth and Development
PE1.5	Define development and discuss the normal developmental mile stones with respect to motor, behaviour, social, adaptive and language	Normal Growth and Development
PE1.6	Discuss the methods of assessment of development	Normal Growth and Development
PE1.7	Perform Developmental assessment and interpret	Normal Growth and Development
PE10.1	Define and describe the etio-pathogenesis, classify including WHO classification, clinical features, complication and management of Severe Acute Malnourishment (SAM) and Moderate Acute Malnutrition (MAM)	Provide nutritional support , assessment and monitoring for common nutritional problems
PE10.2	Outline the clinical approach to a child with SAM and MAM	Provide nutritional support , assessment and monitoring for common nutritional problems

PE10.3	Assessment of a patient with SAM and MAM, diagnosis, classification and planning management including hospital and community based intervention, rehabilitation and prevention	Provide nutritional support , assessment and monitoring for common nutritional problems
PE10.4	Identify children with under nutrition as per IMNCI criteria and plan referral	Pediatrics
PE10.5	Counsel parents of children with SAM and MAM	Provide nutritional support , assessment and monitoring for common nutritional problems
PE10.6	Enumerate the role of locally prepared therapeutic diets and ready to use therapeutic diets	Provide nutritional support , assessment and monitoring for common nutritional problems
PE11.1	Describe the common etiology, clinical features and management of obesity in children	Obesity in children
PE11.2	Discuss the risk approach for obesity and discuss the prevention strategies	Obesity in children
PE11.3	Assessment of a child with obesity with regard to eliciting history including physical activity, charting and dietary recall	Obesity in children
PE11.4	Examination including calculation of BMI, measurement of waist hip ratio, identifying external markers like acanthosis, striae, pseudogynaecomastia etc	Obesity in children
PE11.5	Calculate BMI, document in BMI chart and interpret	Obesity in children
PE11.6	Discuss criteria for referral	Obesity in children

PE12.1	Discuss the RDA, dietary sources of Vitamin A and their role in Health and disease	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.10	Discuss the role of screening for Vitamin D deficiency	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.11	Discuss the RDA, dietary sources of Vitamin E and their role in health and disease	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.12	Describe the causes, clinical features, diagnosis and management of deficiency of Vitamin E	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.13	Discuss the RDA, dietary sources of Vitamin K and their role in health and disease	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.14	Describe the causes, clinical features, diagnosis management and prevention of deficiency of Vitamin K	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.15	Discuss the RDA, dietary sources of Vitamin B and their role in health and disease	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.16	Describe the causes, clinical features, diagnosis and management of deficiency of B complex Vitamins	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.17	Identify the clinical features of Vitamin B complex deficiency	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)

PE12.18	Diagnose patients with Vitamin B complex deficiency and plan management	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.19	Discuss the RDA , dietary sources of Vitamin C and their role in Health and disease	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.2	Describe the causes, clinical features, diagnosis and management of Deficiency / excess of Vitamin A	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.20	Describe the causes, clinical features, diagnosis and management of deficiency of Vitamin C (scurvy)	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.21	Identify the clinical features of Vitamin C deficiency	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.3	Identify the clinical features of dietary deficiency / excess of Vitamin A	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.4	Diagnose patients with Vitamin A deficiency, classify and plan management	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.5	Discuss the Vitamin A prophylaxis program and their recommendations	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.6	Discuss the RDA, dietary sources of Vitamin D and their role in health and disease	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)

PE12.7	Describe the causes, clinical features, diagnosis and management of Deficiency / excess of Vitamin D (Rickets and Hypervitaminosis D)	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.8	Identify the clinical features of dietary deficiency of Vitamin D	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE12.9	Assess patients with Vitamin D deficiency, diagnose, classify and plan management	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
PE13.1	Discuss the RDA, dietary sources of Iron and their role in health and disease	Micronutrients in Health and disease - 2: Iron, Iodine, Calcium, Magnesium
PE13.10	Discuss the National Goiter Control program and their recommendations	Micronutrients in Health and disease - 2: Iron, Iodine, Calcium, Magnesium
PE13.11	Discuss the RDA, dietary sources of Calcium and their role in health and disease	Micronutrients in Health and disease - 2: Iron, Iodine, Calcium, Magnesium
PE13.12	Describe the causes, clinical features, diagnosis and management of Ca Deficiency	Micronutrients in Health and disease - 2: Iron, Iodine, Calcium, Magnesium
PE13.13	Discuss the RDA, dietary sources of Magnesium and their role in health and disease	Micronutrients in Health and disease - 2: Iron, Iodine, Calcium, Magnesium

PE13.14	Describe the causes, clinical features, diagnosis and management of Magnesium Deficiency	Micronutrients in Health and disease - 2: Iron, Iodine, Calcium, Magnesium
PE13.2	Describe the causes, diagnosis and management of Fe deficiency	Micronutrients in Health and disease - 2: Iron, Iodine, Calcium, Magnesium
PE13.3	Identify the clinical features of dietary deficiency of Iron and make a diagnosis	Micronutrients in Health and disease - 2: Iron, Iodine, Calcium, Magnesium
PE13.4	Interpret hemogram and Iron Panel	Micronutrients in Health and disease - 2: Iron, Iodine, Calcium, Magnesium
PE13.5	Propose a management plan for Fe deficiency anaemia	Micronutrients in Health and disease - 2: Iron, Iodine, Calcium, Magnesium
PE13.6	Discuss the National anaemia control program and its recommendations	Micronutrients in Health and disease - 2: Iron, Iodine, Calcium, Magnesium
PE13.7	Discuss the RDA , dietary sources of Iodine and their role in Health and disease	Micronutrients in Health and disease - 2: Iron, Iodine, Calcium, Magnesium

PE13.8	Describe the causes, diagnosis and management of deficiency of Iodine	Micronutrients in Health and disease - 2: Iron, Iodine, Calcium, Magnesium
PE13.9	Identify the clinical features of Iodine deficiency disorders	Micronutrients in Health and disease - 2: Iron, Iodine, Calcium, Magnesium
PE14.1	Discuss the risk factors, clinical features, diagnosis and management of Lead Poisoning	Toxic elements and free radicals and oxygen toxicity
PE14.2	Discuss the risk factors, clinical features, diagnosis and management of Kerosene ingestion	Toxic elements and free radicals and oxygen toxicity
PE14.3	Discuss the risk factors, clinical features, diagnosis and management of Organophosphorous poisoning	Pediatrics
PE14.4	Discuss the risk factors, clinical features, diagnosis and management of paracetamol poisoning	Toxic elements and free radicals and oxygen toxicity
PE14.5	Discuss the risk factors, clinical features, diagnosis and management of Oxygen toxicity	Toxic elements and free radicals and oxygen toxicity
PE15.1	Discuss the fluid and electrolyte requirement in health and disease	Fluid and electrolyte balance
PE15.2	Discuss the clinical features and complications of fluid and electrolyte imbalance and outline the management	Fluid and electrolyte balance
PE15.3	Calculate the fluid and electrolyte requirement in health	Fluid and electrolyte balance
PE15.4	Interpret electrolyte report	Fluid and electrolyte balance
PE15.5	Calculate fluid and electrolyte imbalance	Fluid and electrolyte balance
PE15.6	Demonstrate the steps of inserting an IV cannula in a model	Fluid and electrolyte balance

PE15.7	Demonstrate the steps of inserting an interosseous line in a mannequin	Fluid and electrolyte balance
PE16.1	Explain the components of Integrated Management of Neonatal and Childhood Illnesses (IMNCI) guidelines and method of Risk stratification	Integrated Management of Neonatal and Childhood Illnesses (IMNCI) Guideline
PE16.2	Assess children <2 months using IMNCI Guidelines	Integrated Management of Neonatal and Childhood Illnesses (IMNCI) Guideline
PE16.3	Assess children >2 to 5 years using IMNCI guidelines and Stratify Risk	Integrated Management of Neonatal and Childhood Illnesses (IMNCI) Guideline
PE17.1	State the vision and outline the goals, strategies and plan of action of NHM and other important national programs pertaining to maternal and child health including RMNCH A+, RBSK, RKSK, JSSK mission Indradhanush and ICDS	Pediatrics
PE17.2	Analyse the outcomes and appraise the monitoring and evaluation of NHM	Pediatrics
PE18.1	List and explain the components, plans, outcomes of Reproductive child health (RCH) program and appraise the monitoring and evaluation	Pediatrics
PE18.2	Explain preventive interventions for Child survival and safe motherhood	Pediatrics
PE18.3	Conduct Antenatal examination of women independently and apply at-risk approach in antenatal care	Pediatrics
PE18.4	Provide intra-natal care and conduct a normal Delivery in a simulated environment	Pediatrics
PE18.5	Provide intra-natal care and observe the conduct of a normal delivery	The National Health Programs: RCH

PE18.6	Perform Postnatal assessment of newborn and mother, provide advice on breast feeding, weaning and on family planning	Pediatrics
PE18.7	Educate and counsel caregivers of children	The National Health Programs: RCH
PE18.8	Observe the implementation of the program by Visiting the Rural Health Centre	Pediatrics
PE19.1	Explain the components of the Universal immunization Program and the sub National Immunization Programs	Pediatrics
PE19.10	Observe the handling and storing of vaccines	National Programs, RCH - Universal Immunizations program
PE19.11	Document Immunization in an immunization record	National Programs, RCH - Universal Immunizations program
PE19.12	Observe the Administration the UIP vaccines	Pediatrics
PE19.13	Demonstrate the correct administration of different vaccines in a mannequin	National Programs, RCH - Universal Immunizations program
PE19.14	Practice Infection control measures and appropriate handling of the sharps	National Programs, RCH - Universal Immunizations program
PE19.15	Explain the term implied consent in Immunization services	National Programs, RCH - Universal Immunizations program
PE19.16	Enumerate available newer vaccines and their indications including pentavalent pneumococcal, rotavirus, JE, typhoid IPV & HPV	National Programs, RCH - Universal Immunizations program
PE19.2	Explain the epidemiology of Vaccine preventable diseases	Pediatrics

PE19.3	Vaccine description with regard to classification of vaccines, strain used, dose, route, schedule, risks, benefits and side effects, indications and contraindications	Pediatrics
PE19.4	Define cold chain and discuss the methods of safe storage and handling of vaccines	Pediatrics
PE19.5	Discuss immunization in special situations – HIV positive children, immunodeficiency, preterm , organ transplants, those who received blood and blood products, splenectomised children, Adolescents, travellers	Pediatrics
PE19.6	Assess patient for fitness for immunization and prescribe an age appropriate immunization schedule	National Programs, RCH - Universal Immunizations program
PE19.7	Educate and counsel a patient for immunization	National Programs, RCH - Universal Immunizations program
PE19.8	Demonstrate willingness to participate in the National and sub national immunisation days	Pediatrics
PE19.9	Describe the components of safe vaccine practice – Patient education/ counselling; adverse events following immunization, safe injection practices, documentation and Medico-legal implications	National Programs, RCH - Universal Immunizations program
PE2.1	Discuss the etio-pathogenesis, clinical features and management of a child who fails to thrive	Common problems related to Growth
PE2.2	Assessment of a child with failing to thrive including eliciting an appropriate history and examination	Common problems related to Growth
PE2.3	Counselling a parent with failing to thrive child	Common problems related to Growth
PE2.4	Discuss the etio-pathogenesis, clinical features and management of a child with short stature	Common problems related to Growth
PE2.5	Assessment of a child with short stature: Elicit history, perform examination, document and present	Common problems related to Growth

PE2.6	Enumerate the referral criteria for growth related problems	Common problems related to Growth
PE20.1	Define the common neonatal nomenclatures including the classification and describe the characteristics of a Normal Term Neonate and High Risk Neonates	Care of the Normal New born, and High risk New born
PE20.10	Discuss the etiology, clinical features and management of Hemorrhagic disease of New born	Care of the Normal New born, and High risk New born
PE20.11	Discuss the clinical characteristics, complications and management of Low birth weight (preterm and Small for gestation)	Care of the Normal New born, and High risk New born
PE20.12	Discuss the temperature regulation in neonates, clinical features and management of Neonatal Hypothermia	Care of the Normal New born, and High risk New born
PE20.13	Discuss the temperature regulation in neonates, clinical features and management of Neonatal Hypoglycemia	Care of the Normal New born, and High risk New born
PE20.14	Discuss the etiology, clinical features and management of Neonatal hypocalcemia	Care of the Normal New born, and High risk New born
PE20.15	Discuss the etiology, clinical features and management of Neonatal seizures	Care of the Normal New born, and High risk New born
PE20.16	Discuss the etiology, clinical features and management of Neonatal Sepsis	Care of the Normal New born, and High risk New born
PE20.17	Discuss the etiology, clinical features and management of Perinatal infections	Care of the Normal New born, and High risk New born
PE20.18	Identify and stratify risk in a sick neonate using IMNCI guidelines	Care of the Normal New born, and High risk New born
PE20.19	Discuss the etiology, clinical features and management of Neonatal hyperbilirubinemia	Care of the Normal New born, and High risk New born

PE20.2	Explain the care of a normal neonate	Care of the Normal New born, and High risk New born
PE20.20	Identify clinical presentations of common surgical conditions in the new born including TEF, esophageal atresia, anal atresia, cleft lip and palate, congenital diaphragmatic hernia and causes of acute abdomen	Care of the Normal New born, and High risk New born
PE20.3	Perform Neonatal resuscitation in a manikin	Care of the Normal New born, and High risk New born
PE20.4	Assessment of a normal neonate	Care of the Normal New born, and High risk New born
PE20.5	Counsel / educate mothers on the care of neonates	Care of the Normal New born, and High risk New born
PE20.6	Explain the follow up care for neonates including Breast Feeding, Temperature maintenance, immunization, importance of growth monitoring and red flags	Care of the Normal New born, and High risk New born
PE20.7	Discuss the etiology, clinical features and management of Birth asphyxia	Care of the Normal New born, and High risk New born
PE20.8	Discuss the etiology, clinical features and management of respiratory distress in New born including meconium aspiration and transient tachypnoea of newborn	Care of the Normal New born, and High risk New born
PE20.9	Discuss the etiology, clinical features and management of Birth injuries	Care of the Normal New born, and High risk New born
PE21.1	Enumerate the etio-pathogenesis, clinical features, complications and management of Urinary Tract infection in children	Genito-Urinary system
PE21.10	Analyse symptom and interpret the physical findings and arrive at an appropriate provisional / differential diagnosis	Genito-Urinary system

PE21.11	Perform and interpret the common analytes in a Urine examination	Genito-Urinary system
PE21.12	Interpret report of Plain X Ray of KUB	Genito-Urinary system
PE21.13	Enumerate the indications for and Interpret the written report of Ultra sonogram of KUB	Genito-Urinary system
PE21.14	Recognize common surgical conditions of the abdomen and genitourinary system and enumerate the indications for referral including acute and subacute intestinal obstruction, appendicitis, pancreatitis, perforation intussusception, Phimosis, undescended testis, Chordee, hypospadiasis, Torsion testis, hernia Hydrocele, Vulval Synechiae	Genito-Urinary system
PE21.15	Discuss and enumerate the referral criteria for children with genitourinary disorder	Genito-Urinary system
PE21.16	Counsel / educate a patient for referral appropriately	Genito-Urinary system
PE21.17	Describe the etiopathogenesis, grading, clinical features and management of hypertension in children	Genito-Urinary system
PE21.2	Enumerate the etio-pathogenesis, clinical features, complications and management of acute post-streptococcal Glomerular Nephritis in children	Genito-Urinary system
PE21.3	Discuss the approach and referral criteria to a child with Proteinuria	Genito-Urinary system
PE21.4	Discuss the approach and referral criteria to a child with Hematuria	Genito-Urinary system
PE21.5	Enumerate the etio-pathogenesis, clinical features, complications and management of Acute Renal Failure in children	Genito-Urinary system
PE21.6	Enumerate the etio-pathogenesis, clinical features, complications and management of Chronic Renal Failure in Children	Genito-Urinary system
PE21.7	Enumerate the etio-pathogenesis, clinical features, complications and management of Wilms Tumor	Genito-Urinary system

PE21.8	Elicit, document and present a history pertaining to diseases of the Genitourinary tract	Genito-Urinary system
PE21.9	Identify external markers for Kidney disease, like Failing to thrive, hypertension, pallor, Icthyosis, anasarca	Genito-Urinary system
PE22.1	Enumerate the common Rheumatological problems in children. Discuss the clinical approach to recognition and referral of a child with Rheumatological problem	Approach to and recognition of a child with possible Rheumatologic problem
PE22.2	Counsel a patient with Chronic illness	Approach to and recognition of a child with possible Rheumatologic problem
PE22.3	Describe the diagnosis and management of common vasculitic disorders including Henoch Schonlein Purpura, Kawasaki Disease, SLE, JIA	Approach to and recognition of a child with possible Rheumatologic problem
PE23.1	Discuss the Hemodynamic changes, clinical presentation, complications and management of Acyanotic Heart Diseases –VSD, ASD and PDA	Cardiovascular system- Heart Diseases
PE23.10	Perform independently examination of the cardiovascular system – look for precordial bulge, pulsations in the precordium, JVP and its significance in children and infants, relevance of percussion in Pediatric examination, Auscultation and other system examination and document	Cardiovascular system- Heart Diseases
PE23.11	Develop a treatment plan and prescribe appropriate drugs including fluids in cardiac diseases, anti -failure drugs, and inotropic agents	Cardiovascular system- Heart Diseases
PE23.12	Interpret a chest X ray and recognize Cardiomegaly	Cardiovascular system- Heart Diseases
PE23.13	Choose and Interpret blood reports in Cardiac illness	Cardiovascular system- Heart Diseases

PE23.14	Interpret Pediatric ECG	Cardiovascular system- Heart Diseases
PE23.15	Use the ECHO reports in management of cases	Cardiovascular system- Heart Diseases
PE23.16	Discuss the indications and limitations of Cardiac catheterization	Cardiovascular system- Heart Diseases
PE23.17	Enumerate some common cardiac surgeries like BT shunt, Potts and Waterston's and corrective surgeries	Cardiovascular system- Heart Diseases
PE23.18	Demonstrate empathy while dealing with children with cardiac diseases in every patient encounter	Cardiovascular system- Heart Diseases
PE23.2	Discuss the Hemodynamic changes, clinical presentation, complications and management of Cyanotic Heart Diseases – Fallot's Physiology	Cardiovascular system- Heart Diseases
PE23.3	Discuss the etio-pathogenesis, clinical presentation and management of cardiac failure in infant and children	Cardiovascular system- Heart Diseases
PE23.4	Discuss the etio-pathogenesis, clinical presentation and management of Acute Rheumatic Fever in children	Cardiovascular system- Heart Diseases
PE23.5	Discuss the clinical features, complications, diagnosis, management and prevention of Acute Rheumatic Fever	Cardiovascular system- Heart Diseases
PE23.6	Discuss the etio-pathogenesis, clinical features and management of Infective endocarditis in children	Cardiovascular system- Heart Diseases
PE23.7	Elicit appropriate history for a cardiac disease, analyse the symptoms e.g. breathlessness, chest pain, tachycardia, feeding difficulty, failing to thrive, reduced urinary output, swelling, syncope, cyanotic spells, Suck rest cycle, frontal swelling in infants. Document and present	Cardiovascular system- Heart Diseases

PE23.8	Identify external markers of a cardiac disease e.g. Cyanosis, Clubbing, dependent edema, dental caries, arthritis, erythema rash, chorea, subcutaneous nodules, Oslers node, Janeway lesions and document	Cardiovascular system- Heart Diseases
PE23.9	Record pulse, blood pressure, temperature and respiratory rate and interpret as per the age	Cardiovascular system- Heart Diseases
PE24.1	Discuss the etio-pathogenesis, classification, clinical presentation and management of diarrheal diseases in children	Diarrhoeal diseases and Dehydration
PE24.10	Assess for signs of dehydration, document and present	Diarrhoeal diseases and Dehydration
PE24.11	Apply the IMNCI guidelines in risk stratification of children with diarrheal dehydration and refer	Diarrhoeal diseases and Dehydration
PE24.12	Perform and interpret stool examination including Hanging Drop	Diarrhoeal diseases and Dehydration
PE24.13	Interpret RFT and electrolyte report	Diarrhoeal diseases and Dehydration
PE24.14	Plan fluid management as per the WHO criteria	Diarrhoeal diseases and Dehydration
PE24.15	Perform NG tube insertion in a manikin	Diarrhoeal diseases and Dehydration
PE24.16	Perform IV cannulation in a model	Diarrhoeal diseases and Dehydration
PE24.17	Perform Interosseous insertion model	Diarrhoeal diseases and Dehydration
PE24.2	Discuss the classification and clinical presentation of various types of diarrheal dehydration	Diarrhoeal diseases and Dehydration
PE24.3	Discuss the physiological basis of ORT, types of ORS and the composition of various types of ORS	Diarrhoeal diseases and Dehydration
PE24.4	Discuss the types of fluid used in Paediatric diarrheal diseases and their composition	Diarrhoeal diseases and Dehydration
PE24.5	Discuss the role of antibiotics, antispasmodics, anti-secretory drugs, probiotics, anti-emetics in acute diarrheal diseases	Diarrhoeal diseases and Dehydration
PE24.6	Discuss the causes, clinical presentation and management of persistent diarrhoea in children	Diarrhoeal diseases and Dehydration

PE24.7	Discuss the causes, clinical presentation and management of chronic diarrhoea in children	Diarrhoeal diseases and Dehydration
PE24.8	Discuss the causes, clinical presentation and management of dysentery in children	Diarrhoeal diseases and Dehydration
PE24.9	Elicit, document and present history pertaining to diarrheal diseases	Diarrhoeal diseases and Dehydration
PE25.1	Discuss the etio-pathogenesis, clinical presentation and management of Malabsorption in Children and its causes including celiac disease	Malabsorption
PE26.1	Discuss the etio-pathogenesis, clinical features and management of acute hepatitis in children	Acute and chronic liver disorders
PE26.10	Demonstrate the technique of liver biopsy in a Perform Liver Biopsy in a simulated environment	Acute and chronic liver disorders
PE26.11	Enumerate the indications for Upper GI endoscopy	Acute and chronic liver disorders
PE26.12	Discuss the prevention of Hep B infection – Universal precautions and Immunisation	Acute and chronic liver disorders
PE26.13	Counsel and educate patients and their family appropriately on liver diseases	Acute and chronic liver disorders
PE26.2	Discuss the etio-pathogenesis, clinical features and management of Fulminant Hepatic Failure in children	Acute and chronic liver disorders
PE26.3	Discuss the etio-pathogenesis, clinical features and management of chronic liver diseases in children	Acute and chronic liver disorders
PE26.4	Discuss the etio-pathogenesis, clinical features and management of Portal Hypertension in children	Acute and chronic liver disorders
PE26.5	Elicit document and present the history related to diseases of Gastrointestinal system	Acute and chronic liver disorders
PE26.6	Identify external markers for GI and Liver disorders e.g.. Jaundice, Pallor, Gynaecomastia, Spider angioma, Palmar erythema, Icthyosis, Caput medusa, Clubbing, Failing to thrive, Vitamin A and D deficiency	Acute and chronic liver disorders
PE26.7	Perform examination of the abdomen, demonstrate organomegaly, ascites etc.	Acute and chronic liver disorders

PE26.8	Analyse symptoms and interpret physical signs to make a provisional/ differential diagnosis	Acute and chronic liver disorders
PE26.9	Interpret Liver Function Tests, viral markers, ultra sonogram report	Acute and chronic liver disorders
PE27.1	List the common causes of morbidity and mortality in the under five children	Pediatric Emergencies – Common Pediatric Emergencies
PE27.10	Observe the various methods of administering Oxygen	Pediatric Emergencies – Common Pediatric Emergencies
PE27.11	Explain the need and process of triage of sick children brought to health facility	Pediatric Emergencies – Common Pediatric Emergencies
PE27.12	Enumerate emergency signs and priority signs	Pediatric Emergencies – Common Pediatric Emergencies
PE27.13	List the sequential approach of assessment of emergency and priority signs	Pediatric Emergencies – Common Pediatric Emergencies
PE27.14	Assess emergency signs and prioritize	Pediatric Emergencies – Common Pediatric Emergencies
PE27.15	Assess airway and breathing: recognise signs of severe respiratory distress. Check for cyanosis, severe chest indrawing, grunting	Pediatric Emergencies – Common Pediatric Emergencies
PE27.16	Assess airway and breathing. Demonstrate the method of positioning of an infant & child to open airway in a simulated environment	Pediatric Emergencies – Common Pediatric Emergencies

PE27.17	Assess airway and breathing: administer oxygen using correct technique and appropriate flow rate	Pediatric Emergencies – Common Pediatric Emergencies
PE27.18	Assess airway and breathing: perform assisted ventilation by Bag and mask in a simulated environment	Pediatric Emergencies – Common Pediatric Emergencies
PE27.19	Check for signs of shock i.e. pulse, Blood pressure, CRT	Pediatric Emergencies – Common Pediatric Emergencies
PE27.2	Describe the etio-pathogenesis, clinical approach and management of cardiorespiratory arrest in children	Pediatric Emergencies – Common Pediatric Emergencies
PE27.20	Secure an IV access in a simulated environment	Pediatric Emergencies – Common Pediatric Emergencies
PE27.22	Assess level of consciousness & provide emergency treatment to a child with convulsions/ coma - Position an unconscious child - Position a child with suspected trauma - Administer IV/per rectal Diazepam for a convulsing child in a simulated environment	Pediatric Emergencies – Common Pediatric Emergencies
PE27.23	Assess for signs of severe dehydration	Pediatric Emergencies – Common Pediatric Emergencies
PE27.24	Monitoring and maintaining temperature: define hypothermia. Describe the clinical features, complications and management of Hypothermia	Pediatric Emergencies – Common Pediatric Emergencies

PE27.25	Describe the advantages and correct method of keeping an infant warm by skin to skin contact	Pediatric Emergencies – Common Pediatric Emergencies
PE27.26	Describe the environmental measures to maintain temperature	Pediatric Emergencies – Common Pediatric Emergencies
PE27.27	Assess for hypothermia and maintain temperature	Pediatric Emergencies – Common Pediatric Emergencies
PE27.28	Provide BLS for children in manikin	Pediatric Emergencies – Common Pediatric Emergencies
PE27.3	Describe the etio-pathogenesis of respiratory distress in children	Pediatric Emergencies – Common Pediatric Emergencies
PE27.30	Demonstrate confidentiality with regard to abuse	Pediatric Emergencies – Common Pediatric Emergencies
PE27.31	Assess child for signs of abuse	Pediatric Emergencies – Common Pediatric Emergencies
PE27.32	Counsel parents of dangerously ill / terminally ill child to break a bad news	Pediatric Emergencies – Common Pediatric Emergencies
PE27.33	Obtain Informed Consent	Pediatric Emergencies – Common Pediatric Emergencies

PE27.34	Willing to be a part of the ER team	Pediatric Emergencies – Common Pediatric Emergencies
PE27.35	Attends to emergency calls promptly	Pediatric Emergencies – Common Pediatric Emergencies
PE27.4	Describe the clinical approach and management of respiratory distress in children	Pediatric Emergencies – Common Pediatric Emergencies
PE27.5	Describe the etio-pathogenesis, clinical approach and management of Shock in children	Pediatric Emergencies – Common Pediatric Emergencies
PE27.6	Describe the etio-pathogenesis, clinical approach and management of Status epilepticus	Pediatric Emergencies – Common Pediatric Emergencies
PE27.7	Describe the etio-pathogenesis, clinical approach and management of an unconscious child	Pediatric Emergencies – Common Pediatric Emergencies
PE27.8	Discuss the common types, clinical presentations and management of poisoning in children	Pediatric Emergencies – Common Pediatric Emergencies
PE27.9	Discuss oxygen therapy, in Pediatric emergencies and modes of administration	Pediatric Emergencies – Common Pediatric Emergencies
PE28.1	Discuss the etio-pathogenesis, clinical features and management of Naso pharyngitis	Respiratory system
PE28.10	Perform otoscopic examination of the ear	Respiratory system
PE28.11	Perform throat examination using tongue depressor	Respiratory system
PE28.12	Perform examination of the nose	Respiratory system

PE28.13	Analyse the clinical symptoms and interpret physical findings and make a provisional / differential diagnosis in a child with ENT symptoms	Respiratory system
PE28.14	Develop a treatment plan and document appropriately in a child with upper respiratory symptoms	Respiratory system
PE28.15	Stratify risk in children with stridor using IMNCI guidelines	Respiratory system
PE28.16	Interpret blood tests relevant to upper respiratory problems	Respiratory system
PE28.17	Interpret X-ray of the paranasal sinuses and mastoid; and /or use written report in case of management Interpret CXR in foreign body aspiration and lower respiratory tract infection, understand the significance of thymic shadow in pediatric chest X-rays	Respiratory system
PE28.18	Describe the etio-pathogenesis, diagnosis, clinical features, management and prevention of lower respiratory infections including bronchiolitis, wheeze associated LRTI Pneumonia and empyema	Respiratory system
PE28.19	Describe the etio-pathogenesis, clinical features, diagnosis, management and prevention of asthma in children	Pediatrics
PE28.2	Discuss the etio-pathogenesis of Pharyngo Tonsillitis	Respiratory system
PE28.20	Counsel the child with asthma on the correct use of inhalers in a simulated environment	Pediatrics
PE28.3	Discuss the clinical features and management of Pharyngo Tonsillitis	Respiratory system
PE28.4	Discuss the etio-pathogenesis, clinical features and management of Acute Otitis Media (AOM)	Respiratory system
PE28.5	Discuss the etio-pathogenesis, clinical features and management of Epiglottitis	Respiratory system
PE28.6	Discuss the etio-pathogenesis, clinical features and management of Acute laryngo- trachea-bronchitis	Respiratory system

PE28.7	Discuss the etiology, clinical features and management of Stridor in children	Respiratory system
PE28.8	Discuss the types, clinical presentation, and management of foreign body aspiration in infants and children	Respiratory system
PE28.9	Elicit, document and present age appropriate history of a child with upper respiratory problem including Stridor	Respiratory system
PE29.1	Discuss the etio-pathogenesis, clinical features, classification and approach to a child with anaemia	Anemia and other Hemato-oncologic disorders in children
PE29.10	Elicit, document and present the history related to Hematology	Anemia and other Hemato-oncologic disorders in children
PE29.11	Identify external markers for hematological disorders e.g.. Jaundice, Pallor, Petechiae purpura, Ecchymosis, Lymphadenopathy, bone tenderness, loss of weight, Mucosal and large joint bleed	Anemia and other Hemato-oncologic disorders in children
PE29.12	Perform examination of the abdomen, demonstrate organomegaly	Anemia and other Hemato-oncologic disorders in children
PE29.13	Analyse symptoms and interpret physical signs to make a provisional/ differential diagnosis	Anemia and other Hemato-oncologic disorders in children
PE29.14	Interpret CBC, LFT	Anemia and other Hemato-oncologic disorders in children
PE29.15	Perform and interpret peripheral smear	Anemia and other Hemato-oncologic disorders in children

PE29.16	Discuss the indications for Hemoglobin electrophoresis and interpret report	Anemia and other Hemato-oncologic disorders in children
PE29.17	Demonstrate performance of bone marrow aspiration in manikin	Anemia and other Hemato-oncologic disorders in children
PE29.18	Enumerate the referral criteria for Hematological conditions	Anemia and other Hemato-oncologic disorders in children
PE29.19	Counsel and educate patients about prevention and treatment of anemia	Anemia and other Hemato-oncologic disorders in children
PE29.2	Discuss the etio-pathogenesis, clinical features and management of Iron Deficiency anaemia	Anemia and other Hemato-oncologic disorders in children
PE29.20	Enumerate the indications for splenectomy and precautions	Anemia and other Hemato-oncologic disorders in children
PE29.3	Discuss the etiopathogenesis, clinical features and management of VIT B12, Folate deficiency anaemia	Anemia and other Hemato-oncologic disorders in children
PE29.4	Discuss the etio-pathogenesis, clinical features and management of Hemolytic anemia, Thalassemia Major, Sickle cell anaemia, Hereditary spherocytosis, Auto-immune hemolytic anaemia and hemolytic uremic syndrome	Anemia and other Hemato-oncologic disorders in children
PE29.5	Discuss the National anaemia Control program	Pediatrics
PE29.6	Discuss the cause of thrombocytopenia in children: describe the clinical features and management of Idiopathic Thrombocytopenic Purpura (ITP)	Anemia and other Hemato-oncologic disorders in children

PE29.7	Discuss the etiology, classification, pathogenesis and clinical features of Hemophilia in children	Anemia and other Hemato-oncologic disorders in children
PE29.8	Discuss the etiology, clinical presentation and management of Acute Lymphoblastic Leukemia in children	Anemia and other Hemato-oncologic disorders in children
PE29.9	Discuss the etiology, clinical presentation and management of lymphoma in children	Anemia and other Hemato-oncologic disorders in children
PE3.1	Define, enumerate and discuss the causes of developmental delay and disability including intellectual disability in children	Common problems related to Development -1 (Developmental delay , Cerebral palsy)
PE3.2	Discuss the approach to a child with developmental delay	Common problems related to Development -1 (Developmental delay , Cerebral palsy)
PE3.3	Assessment of a child with developmental delay - Elicit document and present history	Common problems related to Development -1 (Developmental delay , Cerebral palsy)

PE3.4	Counsel a parent of a child with developmental delay	Common problems related to Development -1 (Developmental delay , Cerebral palsy)
PE3.5	Discuss the role of the child developmental unit in management of developmental delay	Pediatrics
PE3.6	Discuss the referral criteria for children with developmental delay	Common problems related to Development -1 (Developmental delay , Cerebral palsy)
PE3.7	Visit a Child Developmental unit and observe its functioning	Pediatrics
PE3.8	Discuss the etio-pathogenesis, clinical presentation and multi- disciplinary approach in the management of Cerebral palsy	Common problems related to Development -1 (Developmental delay , Cerebral palsy)
PE30.1	Discuss the etio-pathogenesis, clinical features , complications, management and prevention of meningitis in children	Systemic Pediatrics-Central Nervous system
PE30.10	Discuss the etio-pathogenesis, clinical features and management of Mental retardation in children	Systemic Pediatrics-Central Nervous system
PE30.11	Discuss the etio-pathogenesis, clinical features and management of children with cerebral palsy	Systemic Pediatrics-Central Nervous system
PE30.12	Enumerate the causes of floppiness in an infant and discuss the clinical features, differential diagnosis and management	Systemic Pediatrics-Central Nervous system

PE30.13	Discuss the etio-pathogenesis, clinical features, management and prevention of Poliomyelitis in children	Systemic Pediatrics-Central Nervous system
PE30.14	Discuss the etio-pathogenesis, clinical features and management of Duchene muscular dystrophy	Systemic Pediatrics-Central Nervous system
PE30.15	Discuss the etio-pathogenesis, clinical features and management of Ataxia in children	Systemic Pediatrics-Central Nervous system
PE30.16	Discuss the approach to and management of a child with headache	Systemic Pediatrics-Central Nervous system
PE30.17	Elicit document and present an age appropriate history pertaining to the CNS	Systemic Pediatrics-Central Nervous system
PE30.18	Demonstrate the correct method for physical examination of CNS including identification of external markers. Document and present clinical findings	Systemic Pediatrics-Central Nervous system
PE30.19	Analyse symptoms and interpret physical findings and propose a provisional / differential diagnosis	Systemic Pediatrics-Central Nervous system
PE30.2	Distinguish bacterial, viral and tuberculous meningitis	Systemic Pediatrics-Central Nervous system
PE30.20	Interpret and explain the findings in a CSF analysis	Systemic Pediatrics-Central Nervous system
PE30.21	Enumerate the indication and discuss the limitations of EEG, CT, MRI	Systemic Pediatrics-Central Nervous system
PE30.22	Interpret the reports of EEG, CT, MRI	Systemic Pediatrics-Central Nervous system
PE30.23	Perform in a mannequin lumbar puncture. Discuss the indications, contraindication of the procedure	Systemic Pediatrics-Central Nervous system

PE30.3	Discuss the etio-pathogenesis, classification, clinical features, complication and management of Hydrocephalus in children	Systemic Pediatrics-Central Nervous system
PE30.4	Discuss the etio-pathogenesis, classification, clinical features, and management of Microcephaly in children	Systemic Pediatrics-Central Nervous system
PE30.5	Enumerate the Neural tube defects. Discuss the causes, clinical features, types, and management of Neural Tube defect	Systemic Pediatrics-Central Nervous system
PE30.6	Discuss the etio-pathogenesis, clinical features, and management of Infantile hemiplegia	Systemic Pediatrics-Central Nervous system
PE30.7	Discuss the etio-pathogenesis, clinical features, complications and management of Febrile seizures in children	Systemic Pediatrics-Central Nervous system
PE30.8	Define epilepsy. Discuss the pathogenesis, clinical types, presentation and management of Epilepsy in children	Systemic Pediatrics-Central Nervous system
PE30.9	Define status Epilepticus. Discuss the clinical presentation and management	Systemic Pediatrics-Central Nervous system
PE31.1	Describe the etio-pathogenesis, management and prevention of Allergic Rhinitis in Children	Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urticaria Angioedema
PE31.10	Enumerate the indications for PFT	Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urticaria Angioedema
PE31.11	Observe administration of Nebulisation	Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urticaria Angioedema

PE31.12	Discuss the etio-pathogenesis, clinical features and complications and management of Urticaria Angioedema	Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urticaria Angioedema
PE31.2	Recognize the clinical signs of Allergic Rhinitis	Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urticaria Angioedema
PE31.3	Describe the etio-pathogenesis, clinical features and management of Atopic dermatitis in Children	Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urticaria Angioedema
PE31.4	Identify Atopic dermatitis and manage	Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urticaria Angioedema
PE31.5	Discuss the etio-pathogenesis, clinical types, presentations, management and prevention of childhood Asthma	Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urticaria Angioedema
PE31.6	Recognise symptoms and signs of Asthma	Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urticaria Angioedema
PE31.7	Develop a treatment plan for Asthma appropriate to clinical presentation & severity	Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urticaria Angioedema

PE31.8	Enumerate criteria for referral	Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urticaria Angioedema
PE31.9	Interpret CBC and CX Ray in Asthma	Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urticaria Angioedema
PE32.1	Discuss the genetic basis, risk factors, complications, prenatal diagnosis, management and genetic counselling in Down's Syndrome	Chromosomal Abnormalities
PE32.10	Counsel parents regarding 1. Present child 2. Risk in the next pregnancy	Chromosomal Abnormalities
PE32.11	Discuss the genetic basis, risk factors, complications, prenatal diagnosis, management and genetic counselling in Klineferlter Syndrome	Chromosomal Abnormalities
PE32.12	Identify the clinical features of Klineferlter Syndrome	Chromosomal Abnormalities
PE32.13	Interpret normal Karyotype and recognize the Klineferlter Karyotype	Chromosomal Abnormalities
PE32.2	Identify the clinical features of Down's Syndrome	Chromosomal Abnormalities
PE32.3	Interpret normal Karyotype and recognize Trisomy 21	Pediatrics
PE32.4	Discuss the referral criteria and Multidisciplinary approach to management	Chromosomal Abnormalities
PE32.5	Counsel parents regarding 1. Present child 2. Risk in the next pregnancy	Chromosomal Abnormalities
PE32.6	Discuss the genetic basis, risk factors, clinical features, complications, prenatal diagnosis, management and genetic counselling in Turner's Syndrome	Chromosomal Abnormalities
PE32.7	Identify the clinical features of Turner Syndrome	Chromosomal Abnormalities
PE32.8	Interpret normal Karyotype and recognize the Turner Karyotype	Chromosomal Abnormalities

PE32.9	Discuss the referral criteria and multidisciplinary approach to management of Turner Syndrome	Pediatrics
PE33.1	Describe the etio-pathogenesis clinical features, management of Hypothyroidism in children	Endocrinology
PE33.10	Recognize precocious and delayed Puberty and refer	Endocrinology
PE33.11	Identify deviations in growth and plan appropriate referral	Endocrinology
PE33.2	Recognize the clinical signs of Hypothyroidism and refer	Endocrinology
PE33.3	Interpret and explain neonatal thyroid screening report	Endocrinology
PE33.4	Discuss the etio-pathogenesis, clinical types, presentations, complication and management of Diabetes mellitus in children	Endocrinology
PE33.5	Interpret Blood sugar reports and explain the diagnostic criteria for Type 1 Diabetes	Endocrinology
PE33.6	Perform and interpret Urine Dip Stick for Sugar	Endocrinology
PE33.7	Perform genital examination and recognize Ambiguous Genitalia and refer appropriately	Endocrinology
PE33.8	Define precocious and delayed Puberty	Endocrinology
PE33.9	Perform Sexual Maturity Rating (SMR) and interpret	Endocrinology
PE34.1	Discuss the epidemiology, clinical features, clinical types, complications of Tuberculosis in Children and Adolescents	Pediatrics
PE34.10	Discuss the various samples for demonstraing the organism eg Gastric Aspirate, Sputum , CSF, FNAC	Pediatrics
PE34.11	Perform AFB staining	Pediatrics
PE34.12	Enumerate the indications and discuss the limitations of methods of culturing M.Tuberculii	Pediatrics
PE34.13	Enumerate the newer diagnostic tools for Tuberculosis including BACTEC CBNAAT and their indications	Vaccine preventable Diseases - Tuberculosis

PE34.14	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of fever in children	Vaccine preventable Diseases - Tuberculosis
PE34.15	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with exanthematous illnesses like Measles, Mumps, Rubella & Chicken pox	Vaccine preventable Diseases - Tuberculosis
PE34.16	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Diphtheria, Pertussis, Tetanus.	Vaccine preventable Diseases - Tuberculosis
PE34.17	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Typhoid	Vaccine preventable Diseases - Tuberculosis
PE34.18	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Dengue, Chikungunya and other vector born diseases	Vaccine preventable Diseases - Tuberculosis
PE34.19	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of children with Common Parasitic infections, malaria, leishmaniasis, filariasis, helminthic infestations, amebiasis, giardiasis	Vaccine preventable Diseases - Tuberculosis
PE34.2	Discuss the various diagnostic tools for childhood tuberculosis	Pediatrics
PE34.20	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Ricketsial diseases	Vaccine preventable Diseases - Tuberculosis
PE34.3	Discuss the various regimens for management of Tuberculosis as per National Guidelines	Pediatrics

PE34.4	Discuss the preventive strategies adopted and the objectives and outcome of the National Tuberculosis Control Program	Pediatrics
PE34.5	Able to elicit, document and present history of contact with tuberculosis in every patient encounter	Pediatrics
PE34.6	Identify a BCG scar	Pediatrics
PE34.7	Interpret a Mantoux test	Pediatrics
PE34.8	Interpret a Chest Radiograph	Pediatrics
PE34.9	Interpret blood tests in the context of laboratory evidence for tuberculosis	Pediatrics
PE35.1	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as they pertain to health care in children (including parental rights and right to refuse treatment)	The role of the physician in the community
PE4.1	Discuss the causes and approach to a child with scholastic backwardness	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)
PE4.2	Discuss the etiology, clinical features, diagnosis and management of a child with Learning Disabilities	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)
PE4.3	Discuss the etiology, clinical features, diagnosis and management of a child with Attention Deficit Hyperactivity Disorder (ADHD)	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)

PE4.4	Discuss the etiology, clinical features, diagnosis and management of a child with Autism	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)
PE4.5	Discuss the role of Child Guidance clinic in children with Developmental problems	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)
PE4.6	Visit to the Child Guidance Clinic	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)
PE5.1	Describe the clinical features, diagnosis and management of thumb sucking	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)

PE5.10	Discuss the role of child guidance clinic in children with behavioural problems and the referral criteria	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)
PE5.11	Visit to Child Guidance Clinic and observe functioning	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)
PE5.2	Describe the clinical features, diagnosis and management of Feeding problems	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)
PE5.3	Describe the clinical features, diagnosis and management of nail biting	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)

PE5.4	Describe the clinical features, diagnosis and management of Breath Holding spells	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)
PE5.5	Describe the clinical features, diagnosis and management of temper tantrums	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)
PE5.6	Describe the clinical features, diagnosis and management of Pica	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)
PE5.7	Describe the clinical features, diagnosis and management of Fussy infant	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)

PE5.8	Discuss the etiology, clinical features and management of Enuresis	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)
PE5.9	Discuss the etiology, clinical features and management of Encopresis	Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)
PE6.1	Define Adolescence and stages of adolescence	Adolescent Health & common problems related to Adolescent Health
PE6.10	Discuss the objectives and functions of AFHS (Adolescent Friendly Health Services) and the referral criteria	Adolescent Health & common problems related to Adolescent Health
PE6.11	Visit to the Adolescent Clinic	Adolescent Health & common problems related to Adolescent Health
PE6.12	Enumerate the importance of obesity and other NCD in adolescents	Adolescent Health & common problems related to Adolescent Health

PE6.13	Enumerate the prevalence and the importance of recognition of sexual drug abuse in adolescents and children	Adolescent Health & common problems related to Adolescent Health
PE6.2	Describe the physical, physiological and psychological changes during adolescence (Puberty)	Adolescent Health & common problems related to Adolescent Health
PE6.3	Discuss the general health problems during adolescence	Adolescent Health & common problems related to Adolescent Health
PE6.4	Describe adolescent sexuality and common problems related to it	Adolescent Health & common problems related to Adolescent Health
PE6.5	Explain the Adolescent Nutrition and common nutritional problems	Adolescent Health & common problems related to Adolescent Health
PE6.6	Discuss the common Adolescent eating disorders (Anorexia Nervosa, Bulimia)	Adolescent Health & common problems related to Adolescent Health
PE6.7	Describe the common mental health problems during adolescence	Adolescent Health & common problems related to Adolescent Health

PE6.8	Respecting patient privacy and maintaining confidentiality while dealing with adolescence	Adolescent Health & common problems related to Adolescent Health
PE6.9	Perform routine Adolescent Health check up including eliciting history, performing examination including SMR (Sexual Maturity Rating), growth assessments (using Growth charts) and systemic exam including thyroid and Breast exam and the HEADSS screening	Adolescent Health & common problems related to Adolescent Health
PE7.1	Awareness on the cultural beliefs and practices of breast feeding	To promote and support optimal Breast feeding for Infants
PE7.10	Respects patient privacy	To promote and support optimal Breast feeding for Infants
PE7.11	Participate in Breast Feeding Week Celebration	To promote and support optimal Breast feeding for Infants
PE7.2	Explain the physiology of lactation	To promote and support optimal Breast feeding for Infants
PE7.3	Describe the composition and types of breast milk and discuss the differences between cow's milk and Human milk	To promote and support optimal Breast feeding for Infants
PE7.4	Discuss the advantages of breast milk	To promote and support optimal Breast feeding for Infants
PE7.5	Observe the correct technique of breast feeding and distinguish right from wrong techniques	To promote and support optimal Breast feeding for Infants

PE7.6	Enumerate the baby friendly hospital initiatives	To promote and support optimal Breast feeding for Infants
PE7.7	Perform breast examination and identify common problems during lactation such as retracted nipples, cracked nipples, breast engorgement, breast abscess	To promote and support optimal Breast feeding for Infants
PE7.8	Educate mothers on ante natal breast care and prepare mothers for lactation	To promote and support optimal Breast feeding for Infants
PE7.9	Educate and counsel mothers for best practices in Breast feeding	To promote and support optimal Breast feeding for Infants
PE8.1	Define the term Complementary Feeding	Pediatrics
PE8.2	Discuss the principles the initiation, attributes , frequency, techniques and hygiene related to complementary feeding including	Pediatrics
PE8.3	Enumerate the common complimentary foods	Pediatrics
PE8.4	Elicit history on the Complementary Feeding habits	Pediatrics
PE8.5	Counsel and educate mothers on the best practices in Complimentary Feeding	Pediatrics
PE9.1	Describe the age related nutritional needs of infants, children and adolescents including micronutrients and vitamins	Pediatrics
PE9.2	Describe the tools and methods for Assessment and classification of Nutritional status of infants, children and adolescents	Pediatrics
PE9.3	Explains the Calorific value of common Indian foods	Normal nutrition, assessment and monitoring
PE9.4	Elicit, Document and present an appropriate nutritional history and perform a dietary recall	Pediatrics
PE9.5	Calculate the age related Calorie requirement in Health and Disease and identify gap	Pediatrics

PE9.6	Assess and classify the nutrition status of infants, children and adolescents and recognize deviations	Pediatrics
PE9.7	Plan an appropriate diet in Health and disease	Pediatrics
PF27.21	Choose the type of fluid and calculate the fluid requirement in shock	Pediatric Emergencies – Common Pediatric Emergencies
PH1.1	Define and describe the principles of pharmacology and pharmacotherapeutics	Pharmacology
PH1.10	Describe parts of a correct, complete and legible generic prescription. Identify errors in prescription and correct appropriately	Pharmacology
PH1.11	Describe various routes of drug administration, eg., oral, SC, IV, IM, SL	Pharmacology
PH1.12	Calculate the dosage of drugs using appropriate formulae for an individual patient, including children, elderly and patient with renal dysfunction	Pharmacology
PH1.13	Describe mechanism of action, types, doses, side effects, indications and contraindications of adrenergic and anti-adrenergic drugs	Pharmacology
PH1.14	Describe mechanism of action, types, doses, side effects, indications and contraindications of cholinergic and anticholinergic drugs	Pharmacology
PH1.15	Describe mechanism/s of action, types, doses, side effects, indications and contraindications of skeletal muscle relaxants	Pharmacology
PH1.16	Describe mechanism/s of action, types, doses, side effects, indications and contraindications of the drugs which act by modulating autacoids, including: Anti-histaminics, 5-HT modulating drugs, NSAIDs, Drugs for gout, Anti-rheumatic drugs, drugs for migraine	Pharmacology
PH1.17	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of local anaesthetics	Pharmacology

PH1.18	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of general anaesthetics, and pre- anaesthetic medications	Pharmacology
PH1.19	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of the drugs which act on CNS, (including anxiolytics, sedatives & hypnotics, antipsychotic, antidepressant drugs, antimaniacs, opioid agonists and antagonists, drugs used for neurodegenerative disorders, antiepileptics drugs)	Pharmacology
PH1.2	Describe the basis of Evidence based medicine and Therapeutic drug monitoring	Pharmacology
PH1.20	Describe the effects of acute and chronic ethanol intake. Describe the symptoms and management of methanol and ethanol poisonings	Pharmacology
PH1.21	Describe the symptoms and management of methanol and ethanol poisonings	Pharmacology
PH1.22	Describe drugs of abuse (dependence, addiction, stimulants, depressants, psychedelics, drugs used for criminal offences)	Pharmacology
PH1.23	Describe the process and mechanism of drug deaddiction	Pharmacology
PH1.24	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of the drugs affecting renal systems including diuretics, antidiuretics-vasopressin and analogues	Pharmacology
PH1.25	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of the drugs acting on blood, like anticoagulants, antiplatelets, fibrinolytics, plasma expanders	Pharmacology
PH1.26	Describe mechanisms of action, types, doses, side effects, indications and contraindications of the drugs modulating the renin angiotensin and aldosterone system	Pharmacology

PH1.27	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of Antihypertensive drugs and drugs used in shock	Pharmacology
PH1.28	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of the drugs used in ischemic heart disease (stable, unstable angina and myocardial infarction), peripheral vascular disease	Pharmacology
PH1.29	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of the drugs used in congestive heart failure	Pharmacology
PH1.3	Enumerate and identify drug formulations and drug delivery systems	Pharmacology
PH1.30	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of the drugs used as Antiarrhythmics	Pharmacology
PH1.31	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of the drugs used in the management of dyslipidemia	Pharmacology
PH1.32	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of drugs used in bronchial asthma and COPD	Pharmacology
PH1.33	Describe the mechanism of action, types, doses, side effects, indications and contraindications of the drugs used in cough (antitussives, expectorants/ mucolytics)	Pharmacology

PH1.34	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of the drugs used as below: 1. Acid-peptic disease and GERD 2. Antiemetics and prokinetics 3. Antidiarrhoeals 4. Laxatives 5. Inflammatory Bowel Disease 6. Irritable Bowel Disorders, biliary and pancreatic diseases	Pharmacology
PH1.35	Describe the mechanism/s of action, types, doses, side effects, indications and contraindications of drugs used in hematological disorders like: 1.Drugs used in anemias 2.Colony Stimulating factors	Pharmacology
PH1.36	Describe the mechanism of action, types, doses, side effects, indications and contraindications of drugs used in endocrine disorders (diabetes mellitus, thyroid disorders and osteoporosis)	Pharmacology
PH1.37	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of the drugs used as sex hormones, their analogues and anterior Pituitary hormones	Pharmacology
PH1.38	Describe the mechanism of action, types, doses, side effects, indications and contraindications of corticosteroids	Pharmacology
PH1.39	Describe mechanism of action, types, doses, side effects, indications and contraindications of the drugs used for contraception	Pharmacology
PH1.4	Describe absorption, distribution, metabolism & excretion of drugs	Pharmacology
PH1.40	Describe mechanism of action, types, doses, side effects, indications and contraindications of 1. Drugs used in the treatment of infertility, and 2. Drugs used in erectile dysfunction	Pharmacology

PH1.41	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of uterine relaxants and stimulants	Pharmacology
PH1.42	Describe general principles of chemotherapy	Pharmacology
PH1.43	Describe and discuss the rational use of antimicrobials including antibiotic stewardship program	Pharmacology
PH1.44	Describe the first line antitubercular dugs, their mechanisms of action, side effects and doses.	Pharmacology
PH1.45	Describe the dugs used in MDR and XDR Tuberculosis	Pharmacology
PH1.46	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of antileprotic drugs	Pharmacology
PH1.47	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of the drugs used in malaria, KALA AZAR, amebiasis and intestinal helminthiasis	Pharmacology
PH1.48	Describe the mechanisms of action, types, doses, side effects, indications and contraindications of the drugs used in UTI/ STD and viral diseases including HIV	Pharmacology
PH1.49	Describe mechanism of action, classes, side effects, indications and contraindications of anticancer drugs	Pharmacology
PH1.5	Describe general principles of mechanism of drug action	Pharmacology
PH1.50	Describe mechanisms of action, types, doses, side effects, indications and contraindications of immunomodulators and management of organ transplant rejection	Pharmacology
PH1.51	Describe occupational and environmental pesticides, food adulterants, pollutants and insect repellents	Pharmacology
PH1.52	Describe management of common poisoning, insecticides, common sting and bites	Pharmacology

PH1.53	Describe heavy metal poisoning and chelating agents	Pharmacology
PH1.54	Describe vaccines and their uses	Pharmacology
PH1.55	Describe and discuss the following National Health programmes including Immunisation, Tuberculosis, Leprosy, Malaria, HIV, Filaria, Kala Azar, Diarrhoeal diseases, Anaemia & nutritional disorders, Blindness, Non-communicable diseases, Cancer and Iodine deficiency	Pharmacology
PH1.56	Describe basic aspects of Geriatric and Pediatric pharmacology	Pharmacology
PH1.57	Describe drugs used in skin disorders	Pharmacology
PH1.58	Describe drugs used in Ocular disorders	Pharmacology
PH1.59	Describe and discuss the following: Essential medicines, Fixed dose combinations, Over the counter drugs, Herbal medicines	Pharmacology
PH1.6	Describe principles of Pharmacovigilance & ADR reporting systems	Pharmacology
PH1.60	Describe and discuss Pharmacogenomics and Pharmacoeconomics	Pharmacology
PH1.61	Describe and discuss dietary supplements and nutraceuticals	Pharmacology
PH1.62	Describe and discuss antiseptics and disinfectants	Pharmacology
PH1.63	Describe Drug Regulations, acts and other legal aspects	Pharmacology
PH1.64	Describe overview of drug development, Phases of clinical trials and Good Clinical Practice	Pharmacology
PH1.7	Define, identify and describe the management of adverse drug reactions (ADR)	Pharmacology
PH1.8	Identify and describe the management of drug interactions	Pharmacology
PH1.9	Describe nomenclature of drugs i.e. generic, branded drugs	Pharmacology
PH2.1	Demonstrate understanding of the use of various dosage forms (oral/local/parenteral; solid/liquid)	Clinical Pharmacy
PH2.2	Prepare oral rehydration solution from ORS packet and explain its use	Clinical Pharmacy

PH2.3	Demonstrate the appropriate setting up of an intravenous drip in a simulated environment	Clinical Pharmacy
PH2.4	Demonstrate the correct method of calculation of drug dosage in patients including those used in special situations	Pharmacology
PH3.1	Write a rational, correct and legible generic prescription for a given condition and communicate the same to the patient	Pharmacology
PH3.2	Perform and interpret a critical appraisal (audit) of a given prescription	Clinical Pharmacology
PH3.3	Perform a critical evaluation of the drug promotional literature	Pharmacology
PH3.4	To recognise and report an adverse drug reaction	Clinical Pharmacology
PH3.5	To prepare and explain a list of P-drugs for a given case/condition	Pharmacology
PH3.6	Demonstrate how to optimize interaction with pharmaceutical representative to get authentic information on drugs	Clinical Pharmacology
PH3.7	Prepare a list of essential medicines for a healthcare facility	Clinical Pharmacology
PH3.8	Communicate effectively with a patient on the proper use of prescribed medication	Clinical Pharmacology
PH4.1	Administer drugs through various routes in a simulated environment using mannequins	Experimental Pharmacology
PH4.2	Demonstrate the effects of drugs on blood pressure (vasopressor and vaso-depressors with appropriate blockers) using computer aided learning	Experimental Pharmacology
PH5.1	Communicate with the patient with empathy and ethics on all aspects of drug use	Pharmacology
PH5.2	Communicate with the patient regarding optimal use of a) drug therapy, b) devices and c) storage of medicines	Pharmacology
PH5.3	Motivate patients with chronic diseases to adhere to the prescribed management by the health care provider	Pharmacology
PH5.4	Explain to the patient the relationship between cost of treatment and patient compliance	Pharmacology

PH5.5	Demonstrate an understanding of the caution in prescribing drugs likely to produce dependence and recommend the line of management	Pharmacology
PH5.6	Demonstrate ability to educate public & patients about various aspects of drug use including drug dependence and OTC drugs.	Pharmacology
PH5.7	Demonstrate an understanding of the legal and ethical aspects of prescribing drugs	Pharmacology
PM 9.1	Describe rehabilative aspects as they pertain to the elderly including patients with dementia, depression, incontinence immobility and nutritional needs	Physical Medicine & Rehabiliation
PM1.1	Define and describe the scope of physical Medicine and Rehabilitation and functional restoration	Introduction to Physical Medicine
PM1.2	Define and describe disability, its cause, and magnitude, identification and prevention of disability	Physical Medicine & Rehabiliation
PM1.3	Define and describe the methods to identify and prevent disability	Physical Medicine & Rehabiliation
PM1.4	Enumerate the rights and entitlements of differently abled persons	Physical Medicine & Rehabiliation
PM2.1	Describe the causes of disability in the patient with a cerebrovascular accident	Physical Medicine & Rehabiliation
PM2.2	Describe and discuss the treatment of rigidity and spasticity	Physical Medicine & Rehabiliation
PM2.3	Describe and discuss the principles of early mobilizations, mobility aids and splints	Physical Medicine & Rehabiliation
PM2.4	Describe and discuss the impact of comorbidities on the rehabilitation of the patient with cerebrovascular accident	Physical Medicine & Rehabiliation
PM3.1	Describe and discuss the clinical features, types, evaluation, diagnosis and management of cerebral palsy	Physical Medicine & Rehabilitation
PM3.2	Recognize, describe and discuss the spectrum of multiple disability : cognitive, motor, visual and hearing in cerebral palsy	Physical Medicine & Rehabilitation

PM3.3	Recognize, describe and discuss the role of special education in children with learning disabilities	Physical Medicine & Rehabilitation
PM3.4	Demonstrate spasticity, rigidity and dystonia in children with cerebral palsy	Physical Medicine & Rehabilitation
PM3.5	Enumerate the indications and describe the therapies for spasticity including medications, serial casts, nerve blocks, botulinum toxin injections	Physical Medicine & Rehabilitation
PM3.6	Enumerate the indications and describe prevention of joint subluxations and contractures by proper positioning, and use of special chairs, and appliances	Physical Medicine & Rehabilitation
PM3.7	Enumerate the first aid measures to be used in patients with seizures and role of common modalities (moist heat, ultrasound, Short wave diathermy)	Physical Medicine & Rehabilitation
PM4.1	Describe the common patterns, clinical features, investigations, diagnosis and treatment of common causes of arthritis	Physical Medicine & Rehabiliation
PM4.2	Describe and discuss the principles of management of chronic pain and role of common modalities (moist heat, ultrasound, Short wave diathermy)	Musculoskeletal system
PM4.3	Observe in a mannequin or equivalent the administration of an intra- articular injection	Musculoskeletal system
PM4.4	Describe the role of exercise as a therapeutic modality	Musculoskeletal system
PM4.5	Demonstrate correct assessment of muscle strength and range of movements	Physical Medicine & Rehabiliation
PM5.1	Enumerate the indications and describe the principles of amputation	Amputation
PM5.2	Describe the principles of early mobilization, evaluation of the residual limb, contralateral limb and the influence of co-morbidities	Amputation
PM5.3	Demonstrate the correct use of crutches in ambulation and postures to correct contractures and deformities	Amputation

PM5.4	Identify the correct prosthesis for common amputations	Amputation
PM6.1	Perform and demonstrate a clinical examination of sensory and motor deficits of peripheral nerve	Physical Medicine & Rehabiliation
PM6.2	Enumerate the indications and describe the principles of nerve conduction velocity and EMG	Physical Medicine & Rehabiliation
PM6.3	Describe the principles principles of skin traction, serial casts and surgical treatment including contracture release, tendon transfer, osteotomies and arthrodesis.	Lower motor neruon lesion
PM6.4	Describe the principles of orthosis for ambulation in PPRP	Lower motor neruon lesion
PM7.1	Describe and discuss the clinical features, diagnostic work up and management of spinal cord injury	Spinal injury
PM7.2	Describe and demonstrate process of transfer, application of collar restraints while maintaining airway and prevention of secondary injury in a mannequin/model	Spinal injury
PM7.3	Perform and demonstrate a correct neurological examination in a patient with spinal injury and determine the neurologic level of injury	Spinal injury
PM7.4	Assess bowel and bladder function and identify common patterns of bladder dysfunction	Physical Medicine & Rehabiliation
PM7.5	Enumerate the indications and identify the common mobility aids and appliances, wheel chairs	Spinal injury
PM7.6	Enumerate the indications and describe the pharmacology and side effects of commonly used drugs in neuropathic bladder	Physical Medicine & Rehabiliation
PM7.7	Enumerate and describe common life threatening complications following SCI like Deep vein Thrombosis, Aspiration Pneumonia, Autonomic dysreflexia	Physical Medicine & Rehabiliation
PM7.8	Enumerate the causes of, describe and classify Pressure Sores,their prevention, and treatment.	Spinal injury
PM7.9	Enumerate the indications of debridement, and Split thickness skin grafting.	Spinal injury

PM8.1	Describe the clinical features, evaluation, diagnosis and management of disability following traumatic brain injury	Physical Medicine & Rehabiliation
PM8.2	Describe and discuss cognitive dysfunction like deficits in attention, memory and communication	Physical Medicine & Rehabiliation
PM8.3	Describe and discuss common behavior and mood changes following TBI	Physical Medicine & Rehabiliation
PM8.4	Describe metabolic co-morbidities like SIADH, diabetes mellitus, insipidus and endocrine dysfunction following TBI	Physical Medicine & Rehabiliation
PM8.5	Describe the Vocational opportunities and community based rehabilitation following TBI	Physical Medicine & Rehabiliation
PS1.1	Establish rapport and empathy with patients	Doctor patient relationship
PS1.2	Describe the components of communication	Doctor patient relationship
PS1.3	Demonstrate breaking of bad news in a simulated environment	Doctor patient relationship
PS1.4	Describe and demonstrate the importance of confidentiality in patient encounters	Doctor patient relationship
PS10.1	Enumerate and describe the magnitude and etiology of somatoform, dissociative and conversion disorders	Psychiatry
PS10.2	Enumerate, elicit, describe and document clinical features in patients with somatoform, dissociative and conversion disorders	Psychiatry
PS10.3	Enumerate and describe the indications and interpret laboratory and other tests used in somatoform, dissociative and conversion disorders	Psychiatry
PS10.4	Describe the treatment of somatoform disorders including behavioural, psychosocial and pharmacologic therapy	Psychiatry
PS10.5	Demonstrate family education in a patient with somatoform, dissociative and conversion disorders in a simulated environment	Somatoform disorders
PS10.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in somatoform, dissociative and conversion disorders	Psychiatry

PS10.7	Enumerate the appropriate conditions for specialist referral in patients with somato form dissociative and conversion disorders	Somatoform disorders
PS11.1	Enumerate and describe the magnitude and etiology of personality disorders	Personality disorders
PS11.2	Enumerate, elicit, describe and document clinical features in patients with personality disorders	Personality disorders
PS11.3	Enumerate and describe the indications and interpret laboratory and other tests used in personality disorders	Personality disorders
PS11.4	Describe the treatment of **personalit**y disorders including behavioural, psychosocial and pharmacologic therapy	Personality disorders
PS11.5	Demonstrate family education in a patient with personality disorders in a simulated environment	Personality disorders
PS11.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in personality disorders	Personality disorders
PS11.7	Enumerate the appropriate conditions for specialist referral	Personality disorders
PS12.1	Enumerate and describe the magnitude and etiology of psychosomatic disorders	Psychiatry
PS12.2	Enumerate, elicit, describe and document clinical features in patients with magnitude and etiology of psychosomatic disorders	Psychiatry
PS12.3	Enumerate and describe the indications and interpret laboratory and other tests of psychosomatic disorders	Psychiatry
PS12.4	Describe the treatment of psychosomatic disorders including behavioural psychosocial and pharmacologic therapy	Psychiatry
PS12.5	Demonstrate family education in a patient with psychosomatic disorders in a simulated environment	Psychosomatic disorders
PS12.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychosomatic disorders	Psychosomatic disorders
PS12.7	Enumerate the appropriate conditions for specialist referral	Psychosomatic disorders

PS13.1	Enumerate and describe the magnitude and etiology of psychosexual and gender identity disorders	Psychosexual and gender identity disorders
PS13.2	Enumerate, elicit, describe and document clinical features in patients with magnitude and etiology of psychosexual and gender identity disorders	Psychosexual and gender identity disorders
PS13.3	Enumerate and describe the indications and interpret laboratory and other tests used in psychosexual and gender identity disorders	Psychosexual and gender identity disorders
PS13.4	Describe the treatment of psychosexual and gender identity disorders including behavioural, psychosocial and pharmacologic therapy	Psychosexual and gender identity disorders
PS13.5	Demonstrate family education in a patient with psychosexual and gender identity disorders in a simulated environment	Psychosexual and gender identity disorders
PS13.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychosexual and gender identity disorders	Psychosexual and gender identity disorders
PS13.7	Enumerate the appropriate conditions for specialist referral	Psychosexual and gender identity disorders
PS14.1	Enumerate and describe the magnitude and etiology of psychiatric disorders occurring in childhood and adolescence	Psychiatry
PS14.2	Enumerate, elicit, describe and document clinical features in patients with psychiatric disorders occurring in childhood and adolescence	Psychiatry
PS14.3	Describe the treatment of stress related disorders including behavioural, psychosocial and pharmacologic therapy	Psychiatry
PS14.4	Demonstrate family education in a patient with psychiatric disorders occurring in childhood and adolescence in a simulated environment	Psychiatry
PS14.5	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychiatric disorders occurring in childhood and adolescence	Psychiatry

PS14.6	Enumerate the appropriate conditions for specialist referral in children and adolescents with psychiatric disorders	Psychiatric disorders in childhood and adolescence
PS15.1	Describe the aetiology and magnitude of mental retardation	Psychiatry
PS15.2	Describe and discuss intelligence quotient and its measurement	Psychiatry
PS15.3	Elicit and document a history and clinical examination and choose appropriate investigations in a patient with mental retardation	Psychiatry
PS15.4	Describe the psychosocial interventions and treatment used in mental retardation	Psychiatry
PS16.1	Enumerate and describe common psychiatric disorders in the elderly including dementia, depression and psychosis	Psychiatry
PS16.2	Describe the aetiology and magnitude of psychiatric illness in the elderly	Psychiatry
PS16.3	Describe the therapy of psychiatric illness in elderly including psychosocial and behavioural therapy	Psychiatry
PS16.4	Demonstrate family education in a patient with psychiatric disorders occurring in the elderly in a simulated environment	Psychiatry
PS16.5	Enumerate the appropriate conditions for specialist referral in psychiatric disorders in the elderly	Psychiatric disorders in the elderly
PS17.1	Enumerate and describe the recognition and clinical presentation of psychiatric emergencies (Suicide, Deliberate Self Harm, Violent behaviour)	Psychiatric emergencies
PS17.2	Describe the initial stabilisation and management of psychiatric emergencies	Psychiatric emergencies
PS17.3	Enumerate the appropriate conditions for specialist referral in patients with psychiatric emergencies	Psychiatric emergencies
PS18.1	Enumerate the indications and describe the pharmacology, dose and side effects of commonly use drugs in psychiatric disorders	Therapeutics

PS18.2	Enumerate the indications for modified electroconvulsive therapy	Therapeutics
PS18.3	Enumerate and describe the principles and role of psychosocial interventions in psychiatric illness including psychotherapy, behavioural therapy and rehabilitation	Therapeutics
PS19.1	Describe the relevance, role and status of community psychiatry	Psychiatry
PS19.2	Describe the objectives strategies and contents of the of the National Mental Health Programme	Psychiatry
PS19.3	Describe and discuss the basic legal and ethical issues in psychiatry	Miscellaneous
PS19.4	Enumerate and describe the salient features of the prevalent mental health laws in India	Psychiatry
PS19.5	Describe the concept and principles of preventive psychiatry and mental health promotion (positive mental health); and community education	Psychiatry
PS19.6	Enumerate and describe the identifying features and the principles of participatory management of mental illness occurring during and after disasters	Miscellaneous
PS2.1	Define stress and describe its components and causes	Doctor patient relationship
PS2.2	Describe the role of time management, study skills, balanced diet and sleep wake habits in stress avoidance	Doctor patient relationship
PS2.3	Define and describe the principles and components of learning memory and emotions	Doctor patient relationship
PS2.4	Describe the principles of personality development and motivation	Doctor patient relationship
PS2.5	Define and distinguish normality and abnormality	Doctor patient relationship
PS3.1	Describe the growth of psychiatry as a medical specialty, its history and contribution to society	Introduction to psychiatry
PS3.10	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychiatric disorders	Introduction to psychiatry
PS3.11	Enumerate the appropriate conditions for specialist referral in patients with psychiatric disorders	Introduction to psychiatry

PS3.12	Describe, discuss and distinguish psychotic & non-psychotic (Mood, Anxiety, Stress related) disorders	Introduction to psychiatry
PS3.2	Enumerate, describe and discuss important signs & symptoms of common mental disorders	Introduction to psychiatry
PS3.3	Elicit, present and document a history in patients presenting with a mental disorder	Introduction to psychiatry
PS3.4	Describe the importance of establishing rapport with patients	Introduction to psychiatry
PS3.5	Perform, demonstrate and document a minimental examination	Introduction to psychiatry
PS3.6	Describe and discuss biological, psychological & social factors & their interactions in the causation of mental disorders	Introduction to psychiatry
PS3.7	Enumerate and describe common organic psychiatric disorders, magnitude, etiology and clinical features	Psychiatry
PS3.8	Enumerate and describe the essential investigations in patients with organic psychiatric disorders	Psychiatry
PS3.9	Describe the steps and demonstrate in a simulated environment family education in patients with organic psychiatric disorders	Introduction to psychiatry
PS4.1	Describe the magnitude and etiology of alcohol and substance use disorders	Psychiatry
PS4.2	Elicit, describe and document clinical features of alcohol and substance use disorders	Psychiatry
PS4.3	Enumerate and describe the indications and interpret laboratory and other tests used in alcohol and substance abuse disorders	Psychiatry
PS4.4	Describe the treatment of alcohol and substance abuse disorders including behavioural and pharmacologic therapy	Psychiatry
PS4.5	Demonstrate family education in a patient with alcohol and substance abuse in a simulated environment	Psychotic disorders
PS4.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in alcohol and substance abuse	Psychiatry

PS4.7	Enumerate the appropriate conditions for specialist referral in patients with alcohol and substance abuse disorders	Psychotic disorders
PS5.1	Classify and describe the magnitude and etiology of schizophrenia & other psychotic disorders	Psychotic disorders
PS5.2	Enumerate, elicit, describe and document clinical features, positive s	Psychotic disorders
PS5.3	Describe the treatment of schizophrenia including behavioural and pharmacologic therapy	Psychotic disorders
PS5.4	Demonstrate family education in a patient with schizophrenia in a simulated environment	Psychotic disorders
PS5.5	Enumerate and describe the pharmacologic basis and side effects of drugs used in schizophrenia	Psychotic disorders
PS5.6	Enumerate the appropriate conditions for specialist referral in patients with psychotic disorders	Psychotic disorders
PS6.1	Classify and describe the magnitude and etiology of depression	Depression
PS6.2	Enumerate, elicit, describe and document clinical features in patients with depression	Depression
PS6.3	Enumerate and describe the indications and interpret laboratory and other tests used in depression	Depression
PS6.4	Describe the treatment of depression including behavioural and pharmacologic therapy	Depression
PS6.5	Demonstrate family education in a patient with depression in a simulated environment	Depression
PS6.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in depression	Depression
PS6.7	Enumerate the appropriate conditions for specialist referral in patients with depression	Depression
PS7.1	Classify and describe the magnitude and etiology of bipolar disorders	Bipolar disorders
PS7.2	Enumerate, elicit, describe and document clinical features in patients with bipolar disorders	Bipolar disorders
PS7.3	Enumerate and describe the indications and interpret laboratory and other tests used in bipolar disorders	Bipolar disorders

PS7.4	Describe the treatment of bipolar disorders including behavioural and pharmacologic therapy	Bipolar disorders
PS7.5	Demonstrate family education in a patient with bipolar disorders in a simulated environment	Bipolar disorders
PS7.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in bipolar disorders	Bipolar disorders
PS7.7	Enumerate the appropriate conditions for specialist referral in patients with bipolar disorders	Bipolar disorders
PS8.1	Enumerate and describe the magnitude and etiology of anxiety disorders	Anxiety disorders
PS8.2	Enumerate, elicit, describe and document clinical features in patients with anxiety disorders	Anxiety disorders
PS8.3	Enumerate and describe the indications and interpret laboratory and other tests used in anxiety disorders	Anxiety disorders
PS8.4	Describe the treatment of anxiety disorders including behavioural and pharmacologic therapy	Anxiety disorders
PS8.5	Demonstrate family education in a patient with anxiety disorders in a simulated environment	Anxiety disorders
PS8.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in anxiety disorders	Anxiety disorders
PS8.7	Enumerate the appropriate conditions for specialist referral in anxiety disorders	Anxiety disorders
PS9.1	Enumerate and describe the magnitude and etiology of stress related disorders	Stress related disorders
PS9.2	Enumerate, elicit, describe and document clinical features in patients with stress related disorders	Stress related disorders
PS9.3	Enumerate and describe the indications and interpret laboratory and other tests used in stress related disorders	Stress related disorders
PS9.4	Describe the treatment of stress related disorders including behavioural and psychosocial therapy	Stress related disorders
PS9.5	Demonstrate family education in a patient with stress related disorders in a simulated environment	Stress related disorders
PS9.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in stress related disorders	Stress related disorders

PS9.7	Enumerate the appropriate conditions for specialist referral in stress disorders	Stress related disorders
PY1.1	Describe the structure and functions of a mammalian cell	General Physiology
PY1.2	Describe and discuss the principles of homeostasis	General Physiology
PY1.3	Describe intercellular communication	General Physiology
PY1.4	Describe apoptosis – programmed cell death	General Physiology
PY1.5	Describe and discuss transport mechanisms across cell membranes	General Physiology
PY1.6	Describe the fluid compartments of the body, its ionic composition & measurements	General Physiology
PY1.7	Describe the concept of pH & Buffer systems in the body	General Physiology
PY1.8	Describe and discuss the molecular basis of resting membrane potential and action potential in excitable tissue	General Physiology
PY1.9	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.	General Physiology
PY10.1	Describe and discuss the organization of nervous system	Physiology
PY10.10	Describe and discuss chemical transmission in the nervous system. (Outline the psychiatry element).	Neurophysiology
PY10.11	Demonstrate the correct clinical examination of the nervous system: Higher functions, Sensory system, motor system, reflexes, Cranial Nerves in a normal volunteer or simulated environment	Physiology
PY10.12	Identify normal EEG forms	Physiology
PY10.13	Describe and discuss perception of smell and taste sensation	Physiology
PY10.14	Describe and discuss patho-physiology of altered smell and taste sensation	Neurophysiology
PY10.15	Describe and discuss functional anatomy of ear and auditory pathways & physiology of hearing	Physiology
PY10.16	Describe and discuss pathophysiology of deafness. Describe hearing tests	Physiology

PY10.17	Describe and discuss functional anatomy of eye, physiology of image formation, physiology of vision including colour vision, Refractive errors, colour blindness, Physiology of pupil and light reflex	Physiology
PY10.18	Describe and discuss the physiological basis of lesion in visual pathway	Physiology
PY10.19	Describe and discuss auditory & visual evoke potentials	Physiology
PY10.2	Describe and discuss the functions and properties of synapse, reflex, receptors	Physiology
PY10.20	Demonstrate testing of visual acuity, colour and field of vision in volunteer/ simulated environment	Physiology
PY10.3	Describe and discuss somatic sensations & sensory tracts	Physiology
PY10.4	Describe and discuss motor tracts, mechanism of maintenance of tone, control of body movements, posture and equilibrium & vestibular apparatus	Physiology
PY10.5	Describe and discuss structure and functions of reticular activating system, autonomic nervous system (ANS)	Physiology
PY10.6	Describe and discuss Spinal cord, its functions, lesion & sensory disturbances	Physiology
PY10.7	Describe and discuss functions of cerebral cortex, basal ganglia, thalamus, hypothalamus, cerebellum and limbic system and their abnormalities	Physiology
PY10.8	Describe and discuss behavioural and EEG characteristics during sleep and mechanism responsible for its production	Physiology
PY10.9	Describe and discuss the physiological basis of memory, learning and speech	Physiology
PY11.1	Describe and discuss mechanism of temperature regulation	Integrated Physiology
PY11.10	Interpret anthropometric assessment of infants	Physiology
PY11.11	Discuss the concept, criteria for diagnosis of Brain death and its implications	Integrated Physiology
PY11.12	Discuss the physiological effects of meditation	Integrated Physiology

PY11.13	Obtain history and perform general examination in the volunteer / simulated environment	Integrated Physiology
PY11.14	Demonstrate Basic Life Support in a simulated environment	Physiology
PY11.2	Describe and discuss adaptation to altered temperature (heat and cold)	Integrated Physiology
PY11.3	Describe and discuss mechanism of fever, cold injuries and heat stroke	Integrated Physiology
PY11.4	Describe and discuss cardio-respiratory and metabolic adjustments during exercise; physical training effects	Integrated Physiology
PY11.5	Describe and discuss physiological consequences of sedentary lifestyle	Integrated Physiology
PY11.6	Describe physiology of Infancy	Physiology
PY11.7	Describe and discuss physiology of aging; free radicals and antioxidants	Integrated Physiology
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)	Integrated Physiology
PY11.9	Interpret growth charts	Physiology
PY2.1	Describe the composition and functions of blood components	Haematology
PY2.10	Define and classify different types of immunity. Describe the development of immunity and its regulation	Haematology
PY2.11	Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT	Haematology
PY2.12	Describe test for ESR, Osmotic fragility, Hematocrit. Note the findings and interpret the test results etc	Haematology
PY2.13	Describe steps for reticulocyte and platelet count	Haematology
PY2.2	Discuss the origin, forms, variations and functions of plasma proteins	Haematology
PY2.3	Describe and discuss the synthesis and functions of Haemoglobin and explain its breakdown. Describe variants of haemoglobin	Haematology

PY2.4	Describe RBC formation (erythropoiesis & its regulation) and its functions	Haematology
PY2.5	Describe different types of anaemias & Jaundice	Haematology
PY2.6	Describe WBC formation (granulopoiesis) and its regulation	Haematology
PY2.7	Describe the formation of platelets, functions and variations.	Haematology
PY2.8	Describe the physiological basis of hemostasis and, anticoagulants. Describe bleeding & clotting disorders (Hemophilia, purpura)	Haematology
PY2.9	Describe different blood groups and discuss the clinical importance of blood grouping, blood banking and transfusion	Haematology
PY3.1	Describe the structure and functions of a neuron and neuroglia; Discuss Nerve Growth Factor & other growth factors/cytokines	Physiology
PY3.10	Describe the mode of muscle contraction (isometric and isotonic)	Nerve and Muscle Physiology
PY3.11	Explain energy source and muscle metabolism	Nerve and Muscle Physiology
PY3.12	Explain the gradation of muscular activity	Physiology
PY3.13	Describe muscular dystrophy: myopathies	Physiology
PY3.14	Perform Ergography	Nerve and Muscle Physiology
PY3.15	Demonstrate effect of mild, moderate and severe exercise and record changes in cardiorespiratory parameters	Nerve and Muscle Physiology
PY3.16	Demonstrate Harvard Step test and describe the impact on induced physiologic parameters in a simulated environment	Nerve and Muscle Physiology
PY3.17	Describe Strength-duration curve	Nerve and Muscle Physiology
PY3.18	Observe with Computer assisted learning (i) amphibian nerve - muscle experiments (ii) amphibian cardiac experiments	Nerve and Muscle Physiology
PY3.2	Describe the types, functions & properties of nerve fibers	Nerve and Muscle Physiology

PY3.3	Describe the degeneration and regeneration in peripheral nerves	Nerve and Muscle Physiology
PY3.4	Describe the structure of neuro-muscular junction and transmission of impulses	Physiology
PY3.5	Discuss the action of neuro-muscular blocking agents	Physiology
PY3.6	Describe the pathophysiology of Myasthenia gravis	Nerve and Muscle Physiology
PY3.7	Describe the different types of muscle fibres and their structure	Physiology
PY3.8	Describe action potential and its properties in different muscle types (skeletal & smooth)	Nerve and Muscle Physiology
PY3.9	Describe the molecular basis of muscle contraction in skeletal and in smooth muscles	Nerve and Muscle Physiology
PY4.1	Describe the structure and functions of digestive system	Physiology
PY4.10	Demonstrate the correct clinical examination of the abdomen in a normal volunteer or simulated environment	Gastro-intestinal Physiology
PY4.2	Describe the composition, mechanism of secretion, functions, and regulation of saliva, gastric, pancreatic, intestinal juices and bile secretion	Gastro-intestinal Physiology
PY4.3	Describe GIT movements, regulation and functions. Describe defecation reflex. Explain role of dietary fibre.	Gastro-intestinal Physiology
PY4.4	Describe the physiology of digestion and absorption of nutrients	Gastro-intestinal Physiology
PY4.5	Describe the source of GIT hormones, their regulation and functions	Gastro-intestinal Physiology
PY4.6	Describe the Gut-Brain Axis	Gastro-intestinal Physiology
PY4.7	Describe & discuss the structure and functions of liver and gall bladder	Gastro-intestinal Physiology
PY4.8	Describe & discuss gastric function tests, pancreatic exocrine function tests & liver function tests	Gastro-intestinal Physiology

PY4.9	Discuss the physiology aspects of: peptic ulcer, gastro-oesophageal reflux disease, vomiting, diarrhoea, constipation, Adynamic ileus, Hirschsprung's disease	Physiology
PY5.1	Describe the functional Anatomy of heart including chambers, sounds; and Pacemaker tissue and conducting system.	Physiology
PY5.10	Describe & discuss regional circulation including microcirculation, lymphatic circulation, coronary, cerebral, capillary, skin, foetal, pulmonary and splanchnic circulation	Physiology
PY5.11	Describe the patho-physiology of shock, syncope and heart failure	Cardiovascular Physiology (CVS)
PY5.12	Record blood pressure & pulse at rest and in different grades of exercise and postures in a volunteer or simulated environment	Cardiovascular Physiology (CVS)
PY5.13	Record and interpret normal ECG in a volunteer or simulated environment	Physiology
PY5.14	Observe cardiovascular autonomic function tests in a volunteer or simulated environment	Cardiovascular Physiology (CVS)
PY5.15	Demonstrate the correct clinical examination of the cardiovascular system in a normal volunteer or simulated environment	Cardiovascular Physiology (CVS)
PY5.16	Record Arterial pulse tracing using finger plethysmography in a volunteer or simulated environment	Physiology
PY5.2	Describe the properties of cardiac muscle including its morphology, electrical, mechanical and metabolic functions	Cardiovascular Physiology (CVS)
PY5.3	Discuss the events occurring during the cardiac cycle	Cardiovascular Physiology (CVS)
PY5.4	Describe generation, conduction of cardiac impulse	Cardiovascular Physiology (CVS)
PY5.5	Describe the physiology of electrocardiogram (E.C.G), its applications and the cardiac axis	Physiology
PY5.6	Describe abnormal ECG, arrythmias, heart block and myocardial Infarction	Physiology

PY5.7	Describe and discuss haemodynamics of circulatory system	Cardiovascular Physiology (CVS)
PY5.8	Describe and discuss local and systemic cardiovascular regulatory mechanisms	Cardiovascular Physiology (CVS)
PY5.9	Describe the factors affecting heart rate, regulation of cardiac output & blood pressure	Cardiovascular Physiology (CVS)
PY6.1	Describe the functional anatomy of respiratory tract	Respiratory Physiology
PY6.10	Demonstrate the correct technique to perform measurement of peak expiratory flow rate in a normal volunteer or simulated environment	Respiratory Physiology
PY6.2	Describe the mechanics of normal respiration, pressure changes during ventilation, lung volume and capacities, alveolar surface tension, compliance, airway resistance, ventilation, V/P ratio, diffusion capacity of lungs	Respiratory Physiology
PY6.3	Describe and discuss the transport of respiratory gases: Oxygen and Carbon dioxide	Respiratory Physiology
PY6.4	Describe and discuss the physiology of high altitude and deep sea diving	Respiratory Physiology
PY6.5	Describe and discuss the principles of artificial respiration, oxygen therapy, acclimatization and decompression sickness.	Respiratory Physiology
PY6.6	Describe and discuss the pathophysiology of dyspnoea, hypoxia, cyanosis asphyxia; drowning, periodic breathing	Respiratory Physiology
PY6.7	Describe and discuss lung function tests & their clinical significance	Respiratory Physiology
PY6.8	Demonstrate the correct techinque to perform & interpret Spirometry	Physiology
PY6.9	Demonstrate the correct clinical examination of the respiratory system in a normal volunteer or simulated environment	Respiratory Physiology
PY7.1	Describe structure and function of kidney	Renal Physiology
PY7.2	Describe the structure and functions of juxta glomerular apparatus and role of renin-angiotensin system	Renal Physiology

PY7.3	Describe the mechanism of urine formation involving processes of filtration, tubular reabsorption & secretion; concentration and diluting mechanism	Renal Physiology
PY7.4	Describe & discuss the significance & implication of Renal clearance	Renal Physiology
PY7.5	Describe the renal regulation of fluid and electrolytes & acid-base balance	Renal Physiology
PY7.6	Describe the innervations of urinary bladder, physiology of micturition and its abnormalities	Renal Physiology
PY7.7	Describe artificial kidney, dialysis and renal transplantation	Physiology
PY7.8	Describe & discuss Renal Function Tests	Renal Physiology
PY7.9	Describe cystometry and discuss the normal cystometrogram	Renal Physiology
PY8.1	Describe the physiology of bone and calcium metabolism	Endocrine Physiology
PY8.2	Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus	Endocrine Physiology
PY8.3	Describe the physiology of Thymus & Pineal Gland	Endocrine Physiology
PY8.4	Describe function tests: Thyroid gland; Adrenal cortex, Adrenal medulla and pancreas	Endocrine Physiology
PY8.5	Describe the metabolic and endocrine consequences of obesity & metabolic syndrome, Stress response. Outline the psychiatry component pertaining to metabolic syndrome.	Endocrine Physiology
PY8.6	Describe & differentiate the mechanism of action of steroid, protein and amine hormones	Endocrine Physiology
PY9.1	Describe and discuss sex determination; sex differentiation and their abnormities and outline psychiatry and practical implication of sex determination.	Physiology
PY9.10	Discuss the physiological basis of various pregnancy tests	Physiology

PY9.11	Discuss the hormonal changes and their effects during perimenopause and menopause	Physiology
PY9.12	Discuss the common causes of infertility in a couple and role of IVF in managing a case of infertility.	Physiology
PY9.2	Describe and discuss puberty: onset, progression, stages; early and delayed puberty and outline adolescent clinical and psychological association.	Reproductive Physiology
PY9.3	Describe male reproductive system: functions of testis and control of spermatogenesis & factors modifying it and outline its association with psychiatric illness	Reproductive Physiology
PY9.4	Describe female reproductive system: (a) functions of ovary and its control; (b) menstrual cycle - hormonal, uterine and ovarian changes	Reproductive Physiology
PY9.5	Describe and discuss the physiological effects of sex hormones	Reproductive Physiology
PY9.6	Enumerate the contraceptive methods for male and female. Discuss their advantages & disadvantages	Physiology
PY9.7	Describe and discuss the effects of removal of gonads on physiological functions	Reproductive Physiology
PY9.8	Describe and discuss the physiology of pregnancy, parturition & lactation and outline the psychology and psychiatry-disorders associated with it.	Physiology
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	Reproductive Physiology
RD1.1	Define radiation and the interaction of radiation and importance of radiation protection	Radiological investigations and Radiation safety
RD1.10	Describe the role of Emergency Radiology, miscellaneous & applied aspects, interaction with clinical departments	Radiological investigations and Radiation safety

RD1.11	Describe preparation of patient for common imaging procedures	Radiological investigations and Radiation safety
RD1.12	Describe the effects of radiation in pregnancy and the methods of prevention/ minimization of radiation exposure	Radiological investigations and Radiation safety
RD1.13	Describe the components of the PC & PNDT Act and its medicolegal implications	Radiodiagnosis
RD1.2	Describe the evolution of Radiodiagnosis. Identify various radiological equipments In the current era	Radiological investigations and Radiation safety
RD1.3	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder of ENT	Radiological investigations and Radiation safety
RD1.4	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in Ob & Gy	Radiological investigations and Radiation safety
RD1.5	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in internal medicine	Radiological investigations and Radiation safety
RD1.6	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorderls in surgery	Radiological investigations and Radiation safety
RD1.7	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in Pediatrics	Radiological investigations and Radiation safety

RD1.8	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to common malignancies	Radiological investigations and Radiation safety
RD1.9	Describe the role of Interventional Radiology in common clinical conditions	Radiological investigations and Radiation safety
RT1.1	Describe and discuss definition of radiation, mechanism of action of radiation, types of radiation	Radiotherapy
RT1.2	Describe and discuss interaction of radiation with matter & measurement of radiation	Principles of Radiation Oncology (Radiotherapy)
RT1.3	Enumerate, describe and discuss classification and staging of cancer (AJCC, FIGO etc.)	Radiotherapy
RT2.1	Describe and discuss radiation protection and personnel monitoring during radiation treatment	Radiation Protection
RT3.1	Describe and discuss cell cycle and cell survival curve, principles of radiobiology	Radiobiology & Chemoradiation
RT3.2	Describe and discuss synergism of radiation and chemotherapy	Radiobiology & Chemoradiation
RT4.1	Describe and discuss teletherapy machine (Co60/LINAC)	Radiation Treatment Delivery & outcome
RT4.2	Enumerate, describe and discuss types of treatment plan, basic workflow of 2D/3DCRT/IMRT/IGRT	Radiation Treatment Delivery & outcome
RT4.3	Describe and discuss Brachytherapy machine (remote after loading)	Radiation Treatment Delivery & outcome
RT4.4	Describe and discuss different radioactive isotopes and their use in cancer patients	Radiation Treatment Delivery & outcome
RT4.5	Describe and discuss role of radiation in management of common malignancies in India (region specific)	Radiotherapy

RT4.6	Describe and discuss radiotherapy for benign disease	Radiotherapy
RT4.7	Counsel patients regarding acute and late effects of radiation and supportive care	Radiotherapy
RT4.8	Describe oncological emergencies and palliative care	Radiotherapy
RT4.9	Display empathy in the care of patients with cancer	Radiation Treatment Delivery & outcome
RT5.1	Describe and discuss cancer prevention, screening, vaccination, cancer registry	Radiotherapy
SU1.1	Describe Basic concepts of homeostasis, enumerate the metabolic changes in injury and their mediators.	Metabolic response to injury
SU1.2	Describe the factors that affect the metabolic response to injury.	Metabolic response to injury
SU1.3	Describe basic concepts of perioperative care.	Metabolic response to injury
SU10.1	Describe the principles of perioperative management of common surgical procedures	Pre, intra and post-operative management.
SU10.2	Describe the steps and obtain informed consent in a simulated environment	Pre, intra and post-operative management.
SU10.3	Observe common surgical procedures and assist in minor surgical procedures; Observe emergency lifesaving surgical procedures.	Pre, intra and post-operative management.
SU10.4	Perform basic surgical Skills such as First aid including suturing and minor surgical procedures in simulated environment	Pre, intra and post-operative management.
SU11.1	Describe principles of Preoperative assessment.	Anaesthesia and pain management
SU11.2	Enumerate the principles of general, regional, and local Anaesthesia.	Anaesthesia and pain management
SU11.3	Demonstrate maintenance of an airway in a mannequin or equivalent	Anaesthesia and pain management
SU11.4	Enumerate the indications and principles of day care General Surgery	Anaesthesia and pain management

SU11.5	Describe principles of providing post-operative pain relief and management of chronic pain.	Anaesthesia and pain management
SU11.6	Describe Principles of safe General Surgery	Anaesthesia and pain management
SU12.1	Enumerate the causes and consequences of malnutrition in the surgical patient	Nutrition and fluid therapy
SU12.2	Describe and discuss the methods of estimation and replacement of the fluid and electrolyte requirements in the surgical patient	Nutrition and fluid therapy
SU12.3	Discuss the nutritional requirements of surgical patients, the methods of providing nutritional support and their complications	Nutrition and fluid therapy
SU13.1	Describe the immunological basis of organ transplantation	Transplantation
SU13.2	Discuss the Principles of immunosuppressive therapy.Enumerate Indications, describe surgical principles, management of organ transplantation	Transplantation
SU13.3	Discuss the legal and ethical issues concerning organ donation	Transplantation
SU13.4	Counsel patients and relatives on organ donation in a simulated environment	Transplantation
SU14.1	Describe Aseptic techniques, sterilization and disinfection.	Basic Surgical Skills
SU14.2	Describe Surgical approaches, incisions and the use of appropriate instruments in Surgery in general.	Basic Surgical Skills
SU14.3	Describe the materials and methods used for surgical wound closure and anastomosis (sutures, knots and needles)	Basic Surgical Skills
SU14.4	Demonstrate the techniques of asepsis and suturing in a simulated environment	Basic Surgical Skills
SU15.1	Describe **c**lassification of hospital waste and appropriate methods of disposal.	Biohazard disposal
SU16.1	Minimally invasive General Surgery: Describe indications advantages and disadvantages of Minimally invasive General Surgery	Minimally invasive General Surgery
SU17.1	Describe the Principles of FIRST AID	Trauma

SU17.10	Demonstrate Airway maintenance. Recognize and manage tension pneumothorax, hemothorax and flail chest in simulated environment.	Trauma
SU17.2	Demonstrate the steps in Basic Life Support. Transport of injured patient in a simulated environment	Trauma
SU17.3	Describe the Principles in management of mass casualties	Trauma
SU17.4	Describe Pathophysiology, mechanism of head injuries	Trauma
SU17.5	Describe clinical features for neurological assessment and GCS in head injuries	Trauma
SU17.6	Chose appropriate investigations and discuss the principles of management of head injuries	Trauma
SU17.7	Describe the clinical features of soft tissue injuries. Chose appropriate investigations and discuss the principles of management.	Trauma
SU17.8	Describe the pathophysiology of chest injuries.	Trauma
SU17.9	Describe the clinical features and principles of management of chest injuries.	Trauma
SU18.1	Describe the pathogenesis, clinical features and management of various cutaneous and subcutaneous infections.	Skin and subcutaneous tissue
SU18.2	Classify skin tumors Differentiate different skin tumors and discuss their management.	Skin and subcutaneous tissue
SU18.3	Describe and demonstrate the clinical examination of surgical patient including swelling and order relevant investigation for diagnosis. Describe and discuss appropriate treatment plan.	Skin and subcutaneous tissue
SU19.1	Describe the etiology and classification of cleft lip and palate	Developmental anomalies of face, mouth and jaws
SU19.2	Describe the Principles of reconstruction of cleft lip and palate	Developmental anomalies of face, mouth and jaws

SU2.1	Describe Pathophysiology of shock, types of shock & principles of resuscitation including fluid replacement and monitoring.	Shock
SU2.2	Describe the clinical features of shock and its appropriate treatment.	Shock
SU2.3	Communicate and counsel patients and families about the treatment and prognosis of shock demonstrating empathy and care	Shock
SU20.1	Describe etiopathogenesis of oral cancer symptoms and signs of oropharyngeal cancer.	Oropharyngeal cancer
SU20.2	Enumerate the appropriate investigations and discuss the Principles of treatment.	Oropharyngeal cancer
SU21.1	Describe surgical anatomy of the salivary glands, pathology, and clinical presentation of disorders of salivary glands	Disorders of salivary glands
SU21.2	Enumerate the appropriate investigations and describe the Principles of treatment of disorders of salivary glands	Disorders of salivary glands
SU22.1	Describe the applied anatomy and physiology of thyroid	Endocrine General Surgery: Thyroid and parathyroid
SU22.2	Describe the etiopathogenesis of thyroidal swellings	Endocrine General Surgery: Thyroid and parathyroid
SU22.3	Demonstrate and document the correct clinical examination of thyroid swellings and discus the differential diagnosis and their management	Endocrine General Surgery: Thyroid and parathyroid
SU22.4	Describe the clinical features, classification and principles of management of thyroid cancer	Endocrine General Surgery: Thyroid and parathyroid
SU22.5	Describe the applied anatomy of parathyroid	Endocrine General Surgery: Thyroid and parathyroid
SU22.6	Describe and discuss the clinical features of hypo- & hyperparathyroidism and the principles of their management	General Surgery
SU23.1	Describe the applied anatomy of adrenal glands	Adrenal glands

SU23.2	Describe the etiology, clinical features and principles of management of disorders of adrenal gland	General Surgery
SU23.3	Describe the clinical features, principles of investigation and management of Adrenal tumors	Adrenal glands
SU24.1	Describe the clinical features, principles of investigation, prognosis and management of pancreatitis.	Pancreas
SU24.2	Describe the clinical features, principles of investigation, prognosis and management of pancreatic endocrine tumours	Pancreas
SU24.3	Describe the principles of investigation and management of Pancreatic disorders including pancreatitis and endocrine tumors.	Pancreas
SU25.1	Describe applied anatomy and appropriate investigations for breast disease	Breast
SU25.2	Describe the etiopathogenesis, clinical features and principles of management of benign breast disease including infections of the breast	Breast
SU25.3	Describe the etiopathogenesis, clinical features, Investigations and principles of treatment of benign and malignant tumours of breast.	Breast
SU25.4	Counsel the patient and obtain informed consent for treatment of malignant conditions of the breast	Breast
SU25.5	Demonstrate the correct technique to palpate the breast for breast swelling in a mannequin or equivalent	Breast
SU26.1	Outline the role of surgery in the management of coronary heart disease, valvular heart diseases and congenital heart diseases	Cardio-thoracic General Surgery-Chest - Heart and Lungs
SU26.3	Describe the clinical features of mediastinal diseases and the principles of management	Cardio-thoracic General Surgery-Chest - Heart and Lungs
SU26.4	Describe the etiology, pathogenesis, clinical features of tumors of lung and the principles of management	Cardio-thoracic General Surgery-Chest - Heart and Lungs

SU27.1	Describe the etiopathogenesis, clinical features, investigations and principles of treatment of occlusive arterial disease.	Vascular diseases
SU27.2	Demonstrate the correct examination of the vascular system and enumerate and describe the investigation of vascular disease	Vascular diseases
SU27.3	Describe clinical features, investigations and principles of management of vasospastic disorders	Vascular diseases
SU27.4	Describe the types of gangrene and principles of amputation	Vascular diseases
SU27.5	Describe the applied anatomy of venous system of lower limb	Vascular diseases
SU27.6	Describe pathophysiology, clinical features, Investigations and principles of management of DVT and Varicose veins	Vascular diseases
SU27.7	Describe pathophysiology, clinical features, investigations and principles of management of Lymph edema, lymphangitis and Lymphomas	Vascular diseases
SU27.8	Demonstrate the correct examination of the lymphatic system	Vascular diseases
SU28.1	Describe pathophysiology, clinical features, Investigations and principles of management of Hernias	Abdomen
SU28.10	Describe the applied anatomy of liver. Describe the clinical features, Investigations and principles of management of liver abscess, hydatid disease, injuries and tumors of the liver	Abdomen
SU28.11	Describe the applied anatomy of spleen. Describe the clinical features, investigations and principles of management of splenic injuries. Describe the post-splenectomy sepsis - prophylaxis	Abdomen
SU28.12	Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system	Abdomen
SU28.13	Describe the applied anatomy of small and large intestine	Abdomen

SU28.14	Describe the clinical features, investigations and principles of management of disorders of small and large intestine including neonatal obstruction and Short gut syndrome	Abdomen
SU28.15	Describe the clinical features, investigations and principles of management of diseases of Appendix including appendicitis and its complications.	Abdomen
SU28.16	Describe applied anatomy including congenital anomalies of the rectum and anal canal	Abdomen
SU28.17	Describe the clinical features, investigations and principles of management of common anorectal diseases	Abdomen
SU28.18	Describe and demonstrate clinical examination of abdomen. Order relevant investigations. Describe and discuss appropriate treatment plan	Abdomen
SU28.2	Demonstrate the correct technique to examine the patient with hernia and identify different types of hernias.	Abdomen
SU28.3	Describe causes, clinical features, complications and principles of mangament of peritonitis	Abdomen
SU28.4	Describe pathophysiology, clinical features, investigations and principles of management of Intra-abdominal abscess, mesenteric cyst, and retroperitoneal tumors	Abdomen
SU28.5	Describe the applied Anatomy and physiology of esophagus	Abdomen
SU28.6	Describe the clinical features, investigations and principles of management of benign and malignant disorders of esophagus	Abdomen
SU28.7	Describe the applied anatomy and physiology of stomach	Abdomen
SU28.8	Describe and discuss the aetiology, the clinical features, investigations and principles of management of congenital hypertrophic pyloric stenosis, Peptic ulcer disease, Carcinoma stomach	Abdomen
SU28.9	Demonstrate the correct technique of examination of a patient with disorders of the stomach	Abdomen

SU29.1	Describe the causes, investigations and principles of management of Hematuria	Urinary System
SU29.10	Demonstrate a digital rectal examination of the prostate in a mannequin or equivalent	Urinary System
SU29.11	Describe clinical features, investigations and management of urethral strictures	Urinary System
SU29.2	Describe the clinical features, investigations and principles of management of congenital anomalies of genitourinary system	Urinary System
SU29.3	Describe the Clinical features, Investigations and principles of management of urinary tract infections	Urinary System
SU29.4	Describe the clinical features, investigations and principles of management of hydronephrosis	Urinary System
SU29.5	Describe the clinical features,investigations and principles of management of renal calculi	Urinary System
SU29.6	Describe the clinical features, investigations and principles of management of renal tumours	Urinary System
SU29.7	Describe the principles of management of acute and chronic retention of urine	Urinary System
SU29.8	Describe the clinical features, investigations and principles of management of bladder cancer	Urinary System
SU29.9	Describe the clinical features, investigations and principles of management of disorders of prostate	Urinary System
SU3.1	Describe the Indications and appropriate use of blood and blood products and complications of blood transfusion.	Blood and blood components
SU3.2	Observe blood transfusions.	Blood and blood components
SU3.3	Counsel patients and family/ friends for blood transfusion and blood donation.	Blood and blood components
SU30.1	Describe the clinical features, investigations and principles of management of phimosis, paraphimosis and carcinoma penis.	Penis, Testis and scrotum
SU30.2	Describe the applied anatomy clinical features, investigations and principles of management of undescended testis.	Penis, Testis and scrotum

SU30.3	Describe the applied anatomy clinical features, investigations and principles of management of epidydimo-orchitis	Penis, Testis and scrotum
SU30.4	Describe the applied anatomy clinical features, investigations and principles of management of varicocele	Penis, Testis and scrotum
SU30.5	Describe the applied anatomy, clinical features, investigations and principles of management of Hydrocele	Penis, Testis and scrotum
SU30.6	Describe classification, clinical features, investigations and principles of management of tumours of testis	Penis, Testis and scrotum
SU4.1	Elicit document and present history in a case of Burns and perform physical examination. Describe Pathophysiology of Burns.	Burns
SU4.2	Describe Clinical features, Diagnose type and extent of burns and plan appropriate treatment.	Burns
SU4.3	Discuss the Medicolegal aspects in burn injuries.	Burns
SU4.4	Communicate and counsel patients and families on the outcome and rehabilitation demonstrating empathy and care.	Burns
SU5.1	Describe normal wound healing and factors affecting healing.	Wound healing and wound care
SU5.2	Elicit, document and present a history in a patient presenting with wounds.	Wound healing and wound care
SU5.3	Differentiate the various types of wounds, plan and observe management of wounds.	Wound healing and wound care
SU5.4	Discuss medico legal aspects of wounds	Wound healing and wound care
SU6.1	Define and describe the aetiology and pathogenesis of surgical Infections	Surgical infections
SU6.2	Enumerate Prophylactic and therapeutic antibiotics Plan appropriate management	Surgical infections
SU7.1	Describe the Planning and conduct of Surgical audit	General Surgery
SU7.2	Describe the principles and steps of clinical research in surgery	General Surgery
SU8.1	Describe the principles of Ethics as it pertains to General Surgery	Ethics

SU8.2	Demonstrate Professionalism and empathy to the patient undergoing General Surgery	Ethics
SU8.3	Discuss Medico-legal issues in surgical practice	Ethics
SU9.1	Choose appropriate biochemical, microbiological, pathological, imaging investigations and interpret the investigative data in a surgical patient	Investigation of surgical patient
SU9.2	Biological basis for early detection of cancer and multidisciplinary approach in management of cancer	Investigation of surgical patient
SU9.3	Communicate the results of surgical investigations and counsel the patient appropriately	Investigation of surgical patient
	Describe Sternoclavicular joint, Acromioclavicular joint, Carpometacarpal joints & Metacarpophalangeal joint	