https://www.nmc.org.in/information-desk/for-colleges/ug-curriculum/

Subject	Code(New)	Competency Description (New)	Topic (NEW)
General Surgery	SU1.1	Describe Basic concepts of homeostasis, enumerate the metabolic changes in injury and their mediators.	Metabolic response to injury
General Surgery	SU1.2	Describe the factors that affect the metabolic response to injury.	Metabolic response to injury
General Surgery	SU1.3	Describe basic concepts of perioperative care.	Metabolic response to injury
General Surgery	SU2.1	Describe Pathophysiology of shock, types of shock & principles of resuscitation including fluid replacement and monitoring.	Shock
General Surgery	SU2.2	Describe the clinical features of shock and its appropriate treatment.	Shock
General Surgery	SU2.3	Communicate and counsel patients and families about the treatment and prognosis of shock demonstrating empathy and care	Shock
General Surgery	SU3.1	Describe the Indications and appropriate use of blood and blood products and complications of blood transfusion.	Blood and blood components
General Surgery	SU3.2	Observe blood transfusions.	Blood and blood components
General Surgery	SU3.3	Counsel patients and family/friends for blood transfusion and blood donation.	Blood and blood components
General Surgery	SU4.1	Elicit document and present history in a case of Burns and perform physical examination. Describe Pathophysiology of Burns.	Burns
General Surgery	SU4.2	Describe Clinical features, Diagnose type and extent of burns and plan appropriate treatment.	Burns
General Surgery	SU4.3	Discuss the Medicolegal aspects in burn injuries.	Burns
General Surgery	SU4.4	Communicate and counsel patients and families on the outcome and rehabilitation demonstrating empathy and care.	Burns
General Surgery	SU5.1	Describe normal wound healing and factors affecting healing.	Wound healing and wound care
General Surgery	SU5.2	Elicit, document and present a history in a patient presenting with wounds.	Wound healing and wound care

General Surgery	SU5.3	Differentiate the various types of wounds,plan and observe management of wounds.	Wound healing and wound care
General Surgery	SU5.4	Discuss medico legal aspects of wounds	Wound healing and wound care

General Surgery	SU6.1	Define and describe the aetiology and pathogenesis of surgical Infections	Surgical infections
General Surgery	SU6.2	Enumerate Prophylactic and therapeutic antibiotics Plan appropriate management	Surgical infections
General Surgery	SU7.1	Describe the Planning and conduct of Surgical audit	Surgical Audit and Research
General Surgery	SU7.2	Describe the principles and steps of clinical research in General Surgery	Surgical Audit and Research
General Surgery	SU8.1	Describe the principles of Ethics as it pertains to General Surgery	Ethics
General Surgery	SU8.2	Demonstrate Professionalism and empathy to the patient undergoing General Surgery	Ethics
General Surgery	SU8.3	Discuss Medico-legal issues in surgical practice	Ethics
General Surgery	SU9.1	Choose appropriate biochemical, microbiological, pathological, imaging investigations and interpret the investigative data in a surgical patient	Investigation of surgical patient
General Surgery	SU9.2	Biological basis for early detection of cancer and multidisciplinary approach in management of cancer	Investigation of surgical patient
General Surgery	SU9.3	Communicate the results of surgical investigations and counsel the patient appropriately	Investigation of surgical patient
General Surgery	SU10.1	Describe the principles of perioperative management of common surgical competencies	Pre, intra and post- operative management.
General Surgery	SU10.2	Describe the steps and obtain informed consent in a simulated environment	Pre, intra and post- operative management.
General Surgery	SU10.3	Observe common surgical competencies and assist in minor surgical competencies; Observe emergency lifesaving surgical competencies.	Pre, intra and post- operative management.
General Surgery	SU10.4	Perform basic surgical Skills such as First aid including suturing and minor surgical competencies in simulated environment	Pre, intra and post- operative management.
General Surgery	SU11.1	Describe principles of Preoperative assessment.	Anaesthesia and pain management
General Surgery	SU11.2	Enumerate the principles of general, regional, and local Anaesthesia.	Anaesthesia and pain management
General Surgery	SU11.3	Demonstrate maintenance of an airway in a mannequin or equivalent	Anaesthesia and pain management
General Surgery	SU11.4	Enumerate the indications and principles of daycare General Surgery	Anaesthesia and pain management
General Surgery	SU11.5	Describe principles of providing post-operative pain relief and management of chronic pain.	Anaesthesia and pain management

General Surgery	SU11.6	Describe Principles of safe General Surgery	Anaesthesia and pain management
General Surgery	SU12.1	Enumerate the causes and consequences of malnutrition in the surgical patient	Nutrition and fluid therapy
General Surgery	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
General Surgery	SU12.3	Discuss the nutritional requirements of surgical patients, the methods of providing nutritional support and their complications	Nutrition and fluid therapy
General Surgery	SU13.1	Describe the immunological basis of organ transplantation	Transplantation
General Surgery	SU13.2	Discuss the Principles of immunosuppressive therapy. Enumerate Indications, describe surgical principles, management of organ transplantation	Transplantation
General Surgery	SU13.3	Discuss the legal and ethical issues concerning organ donation	Transplantation
General Surgery	SU13.4	Counsel patients and relatives on organ donation in a simulated environment	Transplantation
General Surgery	SU14.1	Describe Aseptic techniques, sterilization and disinfection.	Basic Surgical Skills
General Surgery	SU14.2	Describe Surgical approaches,incisions and the use of appropriate instruments in Surgery in general.	Basic Surgical Skills
General Surgery	SU14.3	Describe the materials and methods used for surgical wound closure and anastomosis (sutures, knots and needles)	Basic Surgical Skills
General Surgery	SU14.4	Demonstrate the techniques of asepsis and suturing in a simulated environment	Basic Surgical Skills
General Surgery	SU15.1	Describe classification of hospital waste and appropriate methods of disposal.	Biohazard disposal
General Surgery	SU16.1	Minimally invasive General Surgery: Describe indications advantages and disadvantages of Minimally invasive General Surgery	Minimally invasive General Surgery
General Surgery	SU17.1	Describe the Principles of FIRSTAID	Trauma
General Surgery	SU17.2	Demonstrate the steps in Basic Life Support. Transport of injured patient in a simulated environment	Trauma
General Surgery	SU17.3	Describe the Principles in management of mass casualties	Trauma
General Surgery	SU17.4	Describe Pathophysiology, mechanism of head injuries	Trauma

General Surgery	SU17.5	Describe clinical features for neurological assessment and GCS in head injuries	Trauma
General Surgery	SU17.6	Chose appropriate investigations and discuss the principles of management of head injuries	Trauma
General Surgery	SU17.7	Describe the clinical features of soft tissue injuries. Chose appropriate investigations and discuss the principles of management.	Trauma
General Surgery	SU17.8	Describe the pathophysiology of chest injuries.	Trauma
General Surgery	SU17.9	Describe the clinical features and principles of management of chest injuries.	Trauma
General Surgery	SU17.10	Demonstrate Airway maintenance. Recognize and manage tension pneumothorax, hemothorax and flail chest in simulated environment.	Trauma
General Surgery	SU18.1	Describe the pathogenesis, clinical features and management of various cutaneous and subcutaneous infections.	Skin and subcutaneous tissue Number of competencies
General Surgery	SU18.2	Classify skin tumors Differentiate different skin tumors and discuss their management.	Skin and subcutaneous tissue Number of competencies
General Surgery	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 Number of competencies
General Surgery	SU19.1	Describe the etiology and classification of cleftlip and palate	Developmental anomalies of face, mouth and jaws
General Surgery	SU19.2	Describe the Principles of reconstruction of cleftlip and palate	Developmental anomalies of face, mouth and jaws
General Surgery	SU20.1	Describe etiopathogenesis of oral cancer symptoms and signs of oropharyngeal cancer.	Oropharyngeal cancer
General Surgery	SU20.2	Enumerate the appropriate investigations and discuss the Principles of treatment.	Oropharyngeal cancer
General Surgery	SU21.1	Describe surgical anatomy of the salivary glands, pathology, and clinical presentation of disorders of salivary glands	Disorders of salivary glands
General Surgery	SU21.2	Enumerate the appropriate investigations and describe the Principles of treatment of disorders of salivary glands	Disorders of salivary glands
General Surgery	SU22.1	Describe the applied anatomy and physiology of thyroid	Endocrine General Surgery: Thyroid and parathyroid
General Surgery	SU22.2	Describe the etiopathogenesis of thyroidal swellings	Endocrine General Surgery: Thyroid and parathyroid

General Surgery	SU22.3	Demonstrate and document the correct clinical examination of thyroid swellings and discuss the differential diagnosis and their Management	Endocrine General Surgery: Thyroid and parathyroid
General Surgery	SU22.4	Describe the clinical features, classification and principles of management of thyroid cancer	Endocrine General Surgery: Thyroid and parathyroid
General Surgery	SU22.5	Describe the applied anatomy of parathyroid	Endocrine General Surgery: Thyroid and parathyroid
General Surgery	SU22.6	Describe and discuss the clinical features of hypo - and Hyperparathyroidism and the principles of their management	Endocrine General Surgery: Thyroid and parathyroid
General Surgery	SU23.1	Describe the applied anatomy of adrenal glands	Adrenal glands
General Surgery	SU23.2	Describe the etiology, clinical features and principles of management of disorders of adrenal gland	Adrenal glands
General Surgery	SU23.3	Describe the clinical features, principles of investigation and management of Adrenal tumors	Adrenal glands
General Surgery	SU24.1	Describe the clinical features, principles of investigation, prognosis and management of pancreatitis.	Adrenal glands
General Surgery	SU24.2	Describe the clinical features, principles of investigation, prognosis and management of pancreatic endocrine tumours	Adrenal glands
General Surgery	SU24.3	Describe the principles of investigation and management of Pancreatic disorders including pancreatitis and endocrine tumors.	Adrenal glands
General Surgery	SU25.1	Describe applied anatomy and appropriate investigations for breast disease	Breast
General Surgery	SU25.2	Describe the etiopathogenesis, clinical features and principles of management of benign breast disease including infections of the Breast	Breast
General Surgery	SU25.3	Describe the etiopathogenesis, clinical features, Investigations and principles of treatment of benign and malignant tumours of breast.	Breast
General Surgery	SU25.4	Counsel the patient and obtain informed consent for treatment of malignant conditions of the breast	Breast
General Surgery	SU25.5	Demonstrate the correct technique to palpate the breast for breast swelling in a mannequin or equivalent	Breast

General Surgery	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
General Surgery	SU26.3	Describe the clinical features of mediastinal diseases and the principles of management	Cardio-thoracic General Surgery- Chest - Heart and Lungs
General Surgery	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
General Surgery	SU27.1	Describe the etiopathogenesis, clinical features, investigations and principles of treatment of occlusive arterial disease.	Cardio-thoracic General Surgery- Chest - Heart and Lungs
General Surgery	SU27.2	Demonstrate the correct examination of the vascular system and enumerate and describe the investigation of vascular disease	Cardio-thoracic General Surgery- Chest - Heart and Lungs
General Surgery	SU27.3	Describe clinical features, investigations and principles of management of vasospastic disorders	Cardio-thoracic General Surgery- Chest - Heart and Lungs
General Surgery	SU27.4	Describe the types of gangrene and principles of amputation	Cardio-thoracic General Surgery- Chest - Heart and Lungs
General Surgery	SU27.5	Describe the applied anatomy of venous system of lower limb	Cardio-thoracic General Surgery- Chest - Heart and Lungs
General Surgery	SU27.6	Describe pathophysiology, clinical features, Investigations and principles of management of DVT and Varicose veins	Cardio-thoracic General Surgery- Chest - Heart and Lungs
General Surgery	SU27.7	Describe pathophysiology, clinical features, investigations and principles of management of Lymphedema, lymphangitis and Lymphomas	Cardio-thoracic General Surgery- Chest - Heart and Lungs
General Surgery	SU27.8	Demonstrate the correct examination of the lymphatic system	Cardio-thoracic General Surgery- Chest - Heart and Lungs
General Surgery	SU28.1	Describe pathophysiology, clinical features, Investigations and principles of management of Hernias	Abdomen
General Surgery	SU28.2	Demonstrate the correct technique to examine the patient with hernia and identify different types of hernias.	Abdomen
General Surgery	SU28.3	Describe causes, clinical features, complications and principles of management of peritonitis	Abdomen

General Surgery	SU28.4	Describe pathophysiology, clinical features, investigations and principles of management of Intra-abdominal abscess, mesenteric cyst, and retroperitoneal tumors	Abdomen
General Surgery	SU28.5	Describe the applied Anatomy and physiology of esophagus	Abdomen
General Surgery	SU28.6	Describe the clinical features, investigations and principles of management of benign and malignant disorders of esophagus	Abdomen
General Surgery	SU28.7	Describe the applied anatomy and physiology of stomach	Abdomen
General Surgery	SU28.8	Describe and discuss the aetiology, the clinical features, investigations and principles of management of congenital hypertrophicpyloricstenosis, Peptic ulcer disease, Carcinoma stomach	Abdomen
General Surgery	SU28.9	Demonstrate the correct technique of examination of a patient with disorders of the stomach	Abdomen
General Surgery	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
General Surgery	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
General Surgery	SU28.12	Describe the applied anatomyofbiliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system	Abdomen
General Surgery	SU28.13	Describe the applied anatomy of small and large intestine	Abdomen
General Surgery	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
General Surgery	SU28.15	Describe the clinical features, investigations and principles of management of diseases of Appendix including appendicitis and its complications.	Abdomen
General Surgery	SU28.16	Describe applied anatomy including congenital anomalies of the rectum and anal canal	Abdomen

General Surgery	SU28.17	Describe the clinical features, investigations and principles of management of common anorectal diseases	Abdomen
General Surgery	SU28.18	Describe and demonstrate clinical examination of abdomen. Order relevant investigations. Describe and discuss appropriate treatment plan	Abdomen
General Surgery	SU29.1	Describe the causes, investigations and principles of management of Hematuria	Urinary System
General Surgery	SU29.2	Describe the clinical features, investigations and principles of management of congenital anomalies of genitourinary system	Urinary System
General Surgery	SU29.3	Describe the Clinical features, Investigations and principles of management of urinary tract infections	Urinary System
General Surgery	SU29.4	Describe the clinical features, investigations and principles of management of hydronephrosis	Urinary System
General Surgery	SU29.5	Describe the clinical features, investigations and principles of management of renal calculi	Urinary System
General Surgery	SU29.6	Describe the clinical features, investigations and principles of management of renal tumours	Urinary System
General Surgery	SU29.7	Describe the principles of management of acute and chronic retention of urine	Urinary System
General Surgery	SU29.8	Describe the clinical features, investigations and principles of management of bladder cancer	Urinary System
General Surgery	SU29.9	Describe the clinical features, investigations and principles of management of disorders of prostate	Urinary System
General Surgery	SU29.10	Demonstrate a digital rectal examination of the prostate in a mannequin or equivalent	Urinary System
General Surgery	SU29.11	Describe clinical features, investigations and management of urethral strictures	Urinary System
General Surgery	SU30.1	Describe the clinical features, investigations and principles of management of phimosis, paraphimosis and carcinoma penis.	Penis, Testis and scrotum
General Surgery	SU30.2	Describe the applied anatomy clinical features, investigations and principles of management of undescended testis.	Penis, Testis and scrotum
General Surgery	SU30.3	Describe the applied anatomy clinical features, investigations and principles of management of epididymo-orchitis	Penis, Testis and scrotum

General Surgery	SU30.4	Describe the applied anatomy clinical features, investigations and principles of management of varicocele	Penis, Testis and scrotum
General Surgery	SU30.5	Describe the applied anatomy, clinical features, investigations and principles of management of Hydrocele	Penis, Testis and scrotum
General Surgery	SU30.6	Describe classification, clinical features, investigations and principles of management of tumours of testis	Penis, Testis and scrotum
Derma	**DR1.1**	Recognize a patient with acne vulgaris including the risk factors, etiology and clinical grading	Acne
Derma			
Derma	**DR1.2**	Device a management plan of a patient with acne	Acne
Derma	**DR2.1**	Identify and differentiate vitiligo from other causes of hypo pigmented lesions and present a treatment plan	Vitiligo
Derma			
Derma	**DR3.1**	Identify and distinguish psoriatic lesions from other causes	Papulosquamous disorders
Derma	**DR3.2**	Demonstrate the Grattage test	Papulosquamous disorders
Derma	**DR3.3**	Devise a treatment plan for a patient with psoriasis and counsel the patient regarding various treatment options and chronicity of disease	Papulosquamous disorders
Derma	**DR4.1**	Identify and manage a case of lichen planus	Lichen Planus
Derma			
Derma	**DR5.1**	Devise a treatment plan for management of scabies including adverse drug reactions	Scabies
Derma			
Derma			
Derma	**DR6.1**	Describe the pathogenesis, diagnostic features and management of pediculosis in adults and children	Pediculosis
Derma			
Derma	**DR7.1**	Demonstrate candida/dermatophytes in fungal scrapings on KOH mount	Fungal Infections

Derma	**DR7.2**	Manage a case of fungal infections	Fungal Infections
Derma			
Derma	**DR8.1**	Describe the aetiology, microbiology, pathogenesis, clinical presentations and management of common viral infections of the skin in adults and children	Common Viral Infections
Derma	**DR8.2**	Identify and distinguish herpes simplex and herpes labialis from other skin lesions	Common Viral Infections
Derma	**DR8.3**	Identify and distinguish herpes zoster and varicella from other skin lesions	Common Viral Infections
Derma	**DR8.4**	Identify and distinguish viral warts from other skin lesions	Common Viral Infections
Derma	**DR8.5**	Identify and distinguish molluscum contagiosum from other skin lesions	Common Viral Infections
Derma			
Derma			
Derma	**DR9.1**	Describe the epidemiology, clinical features and classification of Leprosy	Leprosy
Derma	**DR9.2**	Demonstrate an appropriate neurologic examination in Leprosy	Leprosy
Derma	**DR9.3**	Enumerate the indications and observe the performance of a slitskin smear in patients with leprosy	Leprosy
Derma	DR9.4	Effectively treat a case of Lepra Reaction	Leprosy
Derma	DR9.5	Effectively manage a case of Leprosy based on National Guidelines and WHO Guidelines	Leprosy
Derma	DR9.6	Effectively manage complications of Leprosy and counsel regarding disability and stigma	Leprosy
Derma			
Derma	DR10.1	Understand the rationale and Effectively use Syndromic case management for patients presenting with sexually transmitted diseases	Sexually Transmitted Diseases

Derma	DR10.2	Describe the clinical features, stages, and appropriate use of diagnostic tests for diagnosis of Syphilis	Sexually Transmitted Diseases
Derma			
Derma	DR10.3	Describe the clinical features, stages, and appropriate use of diagnostic tests for diagnosis of non-syphilitic genital ulcer namely chancroid and herpes genitalis	Sexually Transmitted Diseases
Derma			
Derma			
Derma	DR10.4	Conduct a proper examination in a patient with GUD ensuring privacy, confidentiality in presence of chaperone	Sexually Transmitted Diseases
Derma	DR10.5	Effectively take sexual history and provide patient education on safe sexual behaviours including pretest counselling for HIV	Sexually Transmitted Diseases
Derma	DR10.6	Effectively manage syphilis and genital ulcer disease based on clinical features and serological tests including in pregnancy and neonates and advise as per syndromic case management	Sexually Transmitted Diseases
Derma	DR10.7	Recognize a patient with LGV and Donovanosis based on clinical findings and provide appropriate therapy using syndromic case management	Sexually Transmitted Diseases
Derma	DR10.8	Describe the etiology, diagnostic and clinical features and management of gonococcal and non-gonococcal urethritis	Sexually Transmitted Diseases
Derma	DR10.9	Effectively manage a patient with urethral discharge and counsel regarding prevention as per syndrome case management guidelines	Sexually Transmitted Diseases
Derma			
Derma			
Derma	DR10.10	Diagnose and manage a patient presenting with vaginal discharge as per syndrome case management guidelines	Sexually Transmitted Diseases
Derma	DR10.11	Diagnose and treat a patient with genital warts and provide patient education	Sexually Transmitted Diseases

Derma	DR11.1	Diagnose and manage common dermatologic manifestations of HIV including opportunistic infections(OI) based on clinical features and appropriate lab tests	HIV
Derma			
Derma	DR11.2	Recognize common dermatological manifestations of ART drugs and initiate primary management appropriately	HIV
Derma	DR12.1	Identify common types of eczema (both endogenous and exogenous based on clinical features and history	Eczemas, Erythroderma and cutaneous adverse drug reactions
Derma			
Derma			
Derma	DR12.2	Provide basic management for common eczemas including topical and systemic therapy	Eczemas, Erythroderma and cutaneous adverse drug reactions
Derma	DR12.3	Diagnose Erythroderma, including medical complications and provide appropriate primary care to stabilize a patient before referral	Eczemas, Erythroderma and cutaneous adverse drug reactions
Derma	DR12.4	Distinguish adverse drug reactions like Fixed drug eruption, Drug Hypersensitivity syndrome and Steven Johnson syndrome/ Toxic epidermal necrolysis from other skin conditions	Eczemas, Erythroderma and cutaneous adverse drug reactions
Derma	DR12.5	Provide primary care in patients with Adverse drug reactions	Eczemas, Erythroderma and cutaneous adverse drug reactions
Derma			
Derma	DR13.1	Diagnose common auto Immune vesiculo- bullous disorders like pemphigus and bullous pemphigoid based on clinical features and appropriate use of Nikolsky's sign and Bulla spread sign	Vesiculo- bullous Lesions

Derma			
Derma	DR13.2	Provide primary management for a patient with vesiculo-bullous disorder before referral	Vesiculo- bullous Lesions
Derma			
Derma	DR14.1	Classify urticaria and angioedema and describe etio-pathogenesis, clinical features and precipitating factors	Urticaria Angioedema
Derma	DR14.2	Identify and distinguish urticaria and angioedema from other skin lesions and provide basic management	Urticaria Angioedema
Derma	DR14.3	Demonstrate Dermographism	Urticaria Angioedema
Derma			
Derma			
Derma	DR15.1	Identify the clinical presentation of various types of cutaneous bacterial infections	Pyoderma
Derma			
Derma	DR15.2	Enumerate the indications and adverse reactions of topical and systemic drugs used in the treatment of pyoderma	Pyoderma
Derma			
Derma	DR15.3	Recognize the need for surgical referral in pyoderma	Pyoderma

Micro	MI1.1	Discuss notable historical events, scientific developments and contributions of key scientists in the evolution of medical microbiology. Discuss the role of microbes in health and disease	General Microbiology, Ethics & Communication
Micro	MI1.2	Describe basic morphology, physiology/characteristics, classification and common infections /diseases caused by bacteria, viruses, fungi and parasites.	General Microbiology, Ethics & Communication

Micro	MI1.3	Describe the basic principles of molecular biology and the concept and significance of studying molecular genetics. Discuss molecular techniques applied to disease diagnosis in clinical microbiology.	General Microbiology, Ethics & Communication
Micro	MI1.4	Describe the laboratory methods used to detect causative agents of infectious diseases.	General Microbiology, Ethics & Communication
Micro	MI1.5	Discuss the appropriate method of collecting and transporting samples to detect microbial agents, including instructions to be given to patients before sample collection.	General Microbiology, Ethics & Communication
Micro	MI1.6	Demonstrate the appropriate method of collection and transport of samples for the detection of microbial agents including instructions to be given to patients before sample collection.	General Microbiology, Ethics & Communication
Micro	MI1.7	Discuss the attitude & behaviors that portray respect & demonstrate respect for patient samples sent to the laboratory for performance of laboratory tests in the detection of microbial agents causing Infectious diseases	General Microbiology, Ethics & Communication
Micro	MI1.8	Discuss and demonstrate effective communication skills with patients, relatives and clinicians during sample collection and pre/post test counseling	General Microbiology, Ethics & Communication
Micro	MI1.9	Discuss & demonstrate confidentiality pertaining to patient identity in laboratory results	General Microbiology, Ethics & Communication
Micro			
Micro	MI1.10	Perform Gram stain, ZN stain, and routine stool examination to identify the different causative agents of infectious diseases from the clinical specimen	General Microbiology, Ethics & Communication
Micro	MI1.11	Describe the epidemiological basis of infectious diseases and their application.	General Microbiology, Ethics & Communication
Micro	MI1.12	Classify and describe the different methods of sterilization and disinfection. Discuss the mechanism of action, application and quality control of different methods in the laboratory and in clinical and surgical practices.	General Microbiology, Ethics & Communication
Micro	MI1.13	Choose the most appropriate method of sterilization and disinfection to be used in specific situations in the laboratory, in clinical and surgical practice.	General Microbiology, Ethics & Communication

Micro	MI2.1	Explain the role of immunological mechanisms in health and disease (innate and acquired immunity).	Basic Immunology & Immunological disorders
Micro	MI2.2	Describe the structure and functions of immune system and its components (antigens, antibodies and complement systems).	Basic Immunology & Immunological disorders
Micro	MI2.3	Describe the host immune responses in Microbial infections (humoral and cellular immune response).	Basic Immunology & Immunological disorders
Micro			
Micro	MI2.4	Explain the immune response in different types of infections (bacterial, mycobacterial, viral, fungal and parasitic infections)	Basic Immunology & Immunological disorders
Micro	MI2.5	Discuss the principles and applications of laboratory tests used in diagnostic microbiology based on the host's immune response.	Basic Immunology & Immunological disorders
Micro	MI2.6	Discuss the immunological basis of disease prevention through active and passive immune prophylaxis. Discuss the importance of herd immunity in prevention and control of infectious disease in community.	Basic Immunology & Immunological disorders
Micro			
Micro	MI2.7	Describe the immunological mechanisms in immunological disorders (hypersensitivity, autoimmune disorders and immunodeficiency states) and discuss the laboratory methods used in their detection.	Basic Immunology & Immunological disorders
Micro	MI2.8	Describe the immunological mechanisms involved in transplantation, tumour immunity and their applications in disease management.	Basic Immunology & Immunological disorders

Micro	MI3.1	Describe the etiopathogenesis, clinical features, complications/sequelae and laboratory diagnosis of rheumatic fever.	CVS and Blood
Micro	MI3.2	Describe the classification etio-pathogenesis, clinical features of Infective endocarditis (IE).	CVS and Blood
Micro	MI3.3	Discuss the diagnostic modalities of IE available with special emphasis on concept of sepsis and blood culture collection & processing.	CVS and Blood
Micro	MI3.4	Diagnose a clinically suspected case of rheumatic fever/IE based on the findings of various microscopic, serological and culture investigations.	CVS and Blood
Micro	MI3.5	Define & describe types of Pyrexia of unknown origin (PUO). Discuss the etiopathogenesis and diagnostic modalities available to rule out infective causes of PUO.	CVS and Blood
Micro	MI3.6	Classify & describe the enteric fever pathogens. Discuss the evolution of the clinical course, pathogenesis, complications, laboratory diagnosis and prevention of enteric fever.	CVS and Blood
Micro	MI3.7	Choose the most appropriate laboratory test in a suspected case of enteric fever based on the duration of illness and in a suspected case of carrier.	CVS and Blood
Micro	MI3.8	Read and interpret the results of various laboratory investigations in a suspected case of enteric fever with special emphasis on serological test results.	CVS and Blood
Micro	MI3.9	Enumerate the common infective causes of anaemia and describe the mechanisms involved in causing anaemia by them.	CVS and Blood
Micro			
Micro	MI3.10	Describe the morphology, life cycle, pathogenesis, laboratory diagnosis, prevention and control of the common parasites causing anaemia.	CVS and Blood
Micro	MI3.11	Describe the morphology, life cycle, pathogenesis, clinical presentation, laboratory diagnosis and prevention of hemoparasites commonly prevalent in India (e.g. causing kala-azar, malaria, filariasis etc.)	CVS and Blood

Micro	MI3.12	Differentiate agents of malignant malaria from agents of benign malaria reported in peripheral blood smear examination/ serology and explain its clinical significance.	CVS and Blood
Micro			
Micro	MI3.13	Describe the epidemiology, the etio- pathogenesis, evolution complications, opportunistic infections, diagnosis, prevention and the principles of management of HIV	CVS and Blood
Micro	MI4.1	Define and differentiate between diarrhea, dysentery and food poisoning. Enumerate the microbial agents causing them.	Gastrointestinal and hepatobiliary system
Micro			
Micro	MI4.2	Describe the epidemiology, morphology, pathogenesis, clinical features and diagnostic modalities of bacterial, viral, parasitic and fungal agents causing diarrhoea.	Gastrointestinal and hepatobiliary system
Micro	MI4.3	Describe the epidemiology, morphology, pathogenesis, clinical features and diagnostic modalities of bacterial, viral, parasitic and fungal agents causing dysentery	Gastrointestinal and hepatobiliary system
Micro	MI4.4	Identify the common etiologic agents of diarrhoea and dysentery by stool microscopic examination.	Gastrointestinal and hepatobiliary system
Micro	MI4.5	Enumerate the bacterial, viral, parasitic and fungal agents of food poisoning and discuss their pathogenesis, clinical course and laboratory diagnosis.	Gastrointestinal and hepatobiliary system
Micro	MI4.6	Describe the infective aetiology, pathogenesis and clinical course of Acid peptic disease (APD) and Discuss the laboratory diagnosis and management of the causative agent of APD.	Gastrointestinal and hepatobiliary system
Micro	MI4.7	Describe the epidemiology, etiopathogenesis, clinical features and complications of viral hepatitis.	Gastrointestinal and hepatobiliary system

Micro			
Micro	MI4.8	Discuss the modalities in laboratory diagnosis, with special emphasis on viral markers and preventive strategies for viral hepatitis caused by hepatitis viruses.	Gastrointestinal and hepatobiliary system
Micro	MI4.9	Suggest the most appropriate laboratory test based on history and clinical presentation in a suspected case of viral hepatitis and interpret the type and progress of viral hepatitis based on the laboratory report of viral markers in a case of infection by hepatitis virus.	Gastrointestinal and hepatobiliary system
Micro	MI5.1	Enumerate the microbial agents causing anaerobic infections. Describe the pathogenesis, clinical course and the laboratory diagnosis of anaerobic infections.	Musculoskeletal system, Skin and Soft tissue infections
Micro	MI5.2	Explain the etiopathogenesis, clinical course & laboratory diagnosis of bone & joint infections caused by bacterial, fungal, viral and parasitic agents.	Musculoskeletal system, Skin and Soft tissue infections
Micro	MI5.3	Explain the etiopathogenesis, clinical course and the laboratory diagnosis of skin and soft tissue infections caused by bacterial, fungal, viral and parasitic agents.	Musculoskeletal system, Skin and Soft tissue infections
Micro	MI5.4	Differentiate between infective and non-infective lesions in the skin. Enlist microbes causing systemic disease with involvement of skin.	Musculoskeletal system, Skin and Soft tissue infections
Micro	MI5.5	Describe the etiopathogenesis, clinical course, complications and laboratory diagnosis of mycobacterial infections involving skin & soft tissue with special emphasis on sample collection from/of skin	Musculoskeletal system, Skin and Soft tissue infections
Micro	MI6.1	Enumerate the microbial agents causing meningitis. Explain the pathogenesis, clinical course and laboratory diagnosis of meningitis caused by bacterial, fungal, viral and parasitic agents.	Central Nervous System infections
Micro			
Micro	MI6.2	Enumerate the microbial agents causing encephalitis Explain the pathogenesis, clinical course and laboratory diagnosis of encephalitis caused by bacterial, fungal, viral and parasitic agents.	Central Nervous System infections

Micro	MI6.3	Identify the microbial agents causing meningitis from a Gram stained given smear. Read & Interpret the microscopic findings and culture report of CSF to diagnose a case of bacterial, viral, fungal or parasitic infection in CNS	Central Nervous System infections
Micro	MI7.1	Explain the etiopathogenesis, laboratory diagnosis and prevention of Infections of the upper respiratory tract caused by bacterial, viral, fungal and parasitic agents.	Respiratory tract infections
Micro	MI7.2	Explain the etiopathogenesis, laboratory diagnosis and prevention of Infections of the lower respiratory tract caused by bacterial, mycobacterial, viral, fungal and parasitic agents.	Respiratory tract infections
Micro	MI7.3	Enlist & identify the etiological agents of lower respiratory infection in specific situations like age, immune status, community-acquired pneumonia, hospital-acquired pneumonia etc	Respiratory tract infections
Micro	MI7.4	Identify the common etiologic agents of upper respiratory tract infections in a Gram Stain/ Albert stained smear of throat swab and correlate with the clinical findings provided.	Respiratory tract infections
Micro	MI7.5	Identify the common etiologic agents of lower respiratory tract infections in a provided Gram Stained & Acid fast stained smear of sputum/BAL/tracheal aspirate and correlate with the clinical findings provided	Respiratory tract infections
Micro	MI8.1	Describe the etiopathogenesis and discuss the laboratory diagnosis of common bacterial, viral, fungal and parasitic infections of the genito- urinary system	Genitourinary and Sexually Transmitted Infections
Micro	MI8.2	Enlist common sexually transmitted infections (STI). Explain the pathogenesis, laboratory diagnosis and prevention of common bacterial and viral sexually transmitted infections.	Genitourinary and Sexually Transmitted Infections
Micro	MI8.3	Explain the concept and utility of Syndromic management of STI.	Genitourinary and Sexually Transmitted Infections
Micro	MI8.4	Explain etiopathogenesis, clinical course, and the appropriate method for specimen collection, and discuss the laboratory diagnosis of different clinical and epidemiological types of urinary tract infections.	Genitourinary and Sexually Transmitted Infections
Micro	MI9.1	Define and classify Zoonotic infections. Explain etio-pathogenesis, vectors, clinical course, transmission, risk factors, laboratory diagnosis, and preventive & control strategies of different zoonotic infections caused by bacterial, viral, fungal and parasitic agents.	Zoonotic diseases and Miscellaneous

Micro	MI9.2	Describe the etiopathogenesis and laboratory diagnosis of opportunistic infections (OI) along with factors predisposing to the development of OI by bacterial, viral, fungal and parasitic agents.	Zoonotic diseases and Miscellaneous
Micro	MI9.3	Choose the most suitable microbiological investigation in a given clinical situation and Interpret the results of the laboratory tests for the diagnosis of the infectious disease	Zoonotic diseases and Miscellaneous
Micro			
Micro	MI9.4	Describe the etiopathogenesis of infective causes of malignancy and explain the mechanisms used by oncogenic viruses in the development of virus-associated malignancies, along with their preventive measures.	Zoonotic diseases and Miscellaneous
Micro	MI9.5	Describe the concept of emerging & re-emerging Infectious diseases. Explain the factors responsible for emergence and re-emergence of these disease and strategies for their prevention and control.	Zoonotic diseases and Miscellaneous
Micro	MI9.6	Describe the National Health Programs in the prevention of common infectious diseases and discuss the National reference centres for disease diagnosis and control	Zoonotic diseases and Miscellaneous
Micro			
Micro	MI10.1	Enumerate different causative agents and the types of Healthcare- Associated Infections (HAI). Define HAI and describe the chain of transmission and its role in preventing HAI.	Healthcare-associated infections (HAI)
Micro	MI10.2	Describe the standard & transmission based precautions for infection control and the role of the hospital infection control committee (HICC) in the prevention of HAI.	Healthcare-associated infections (HAI)
Micro	MI10.3	Demonstrate hand washing, donning- doffing of PPE and segregation of Biomedical waste	Healthcare-associated infections (HAI)

Micro	MI10.4	Describe the methods used and significance of assessing the microbial contamination of food, water and air (in hospital surveillance)	Healthcare-associated infections (HAI)
Micro	MI10.5	Describe the commonly detected drug-resistant microbes in HAI. Explain the mechanism of evolution, spread, and control of antimicrobial drug resistance in hospitalized patients.	Healthcare-associated infections (HAI)
Micro	MI11.1	Describe the genotypic & phenotypic mechanisms of antimicrobial drug resistance and the methods of antimicrobial susceptibility testing, along with interpretation of the antimicrobial susceptibility testing report	Antimicrobial resistance (AMR) & Antimicrobial Stewardship (AMSP)
Micro	MI11.2	Explain intrinsic & acquired drug resistance along with the antimicrobial spectrum of important human pathogens and its application in clinical therapy.	Antimicrobial resistance (AMR) & Antimicrobial Stewardship (AMSP)
Micro	MI11.3	Explain the concept and application of the antimicrobial stewardship program including rational antimicrobial prescription and your role in its implementation.	Antimicrobial resistance (AMR) & Antimicrobial Stewardship (AMSP)
Psychiatry			
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Psychiatry	PS1.1	Describe the classification of psychiatric disorders and its basis (neurotic vs psychotic; organic vs non-organic/functional)	Introduction to Psychiatry
Psychiatry	PS1.2	Elicit history in patient presenting with psychiatric disorder(s)	Introduction to Psychiatry
Psychiatry	PS1.3	Perform mental status examination (MSE) in patients presenting with psychiatric disorder(s)	Introduction to Psychiatry
Psychiatry			
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Psychiatry	PS2.1*	Describe common Organic Psychiatric Disorders with emphasis on Delirium & Dementia	Organic Psychiatric Disorders
Psychiatry			
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Psychiatry			
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Psychiatry			
Psychiatry	PS3.1	Describe and identify clinical presentation of abuse of alcohol, nicotine and other psychoactive substances prevalent in your area and their management.	Psychoactive Substance Use Disorders and other addiction disorders
Psychiatry			

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Psychiatry			
Psychiatry	PS4.1	Diagnose and manage a case of Schizophrenia at primary care level	Schizophrenia and other Psychotic disorders
Psychiatry			
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Psychiatry			
Psychiatry	PS5.1	Diagnose and manage case of depression at primary care level	Depressive disorders
Psychiatry	PS5.2	Identify red flag signs of depression and refer to a specialist	Depressive disorders
Psychiatry			

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Psychiatry	PS6.1	Diagnose and manage an episode of Mania at primary care level	Bipolar disorders
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Psychiatry	PS7.1	Diagnose and manage anxiety disorders at primary care level	Anxiety Disorders (including OCD)

Psychiatry			
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Psychiatry			
Psychiatry	PS8.1	Diagnose stress related disorders (Acute Stress Disorder and Adjustment Disorders) and make appropriate referral	Stress related disorders
Psychiatry			
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Psychiatry			
Psychiatry			
Psychiatry			
Psychiatry			
Psychiatry	PS9.1	Describe common psychosexual disorders	Psychosexual and Gender Identity Disorders

Psychiatry	PS9.2	Demonstrate knowledge of medico-legal, societal, ethical and humanitarian principles on dealing with LGBTQA+ community.	Psychosexual and Gender Identity Disorders
Psychiatry			
Psychiatry			
Psychiatry			
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Psychiatry			
Psychiatry	PS10.1	Classify and describe disorders commonly seen in childhood and adolescence with emphasis on ADHD and Autism Spectrum Disorders	Psychiatric Disorders in Childhood and Adolescence
Psychiatry			
Psychiatry			
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Psychiatry			
Psychiatry			

Psychiatry	PS11.1	Describe Intellectual Disability Disorder	Intellectual Disability Disorder
Psychiatry			
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Psychiatry			
Psychiatry	PS12.1	Perform suicide risk assessment	Psychiatric Emergencies
Psychiatry			
Psychiatry			
Psychiatry	PS13.1	Describe the process of modified ECT and identify misconceptions associated with ECT	Therapeutics
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Anatomy	AN1.1	Describe & Demonstrate normal anatomical position, various planes, relation, comparison, laterality & movements in the human body	Anatomical terminology
Anatomy	AN1.2	Describe composition of bone and bone marrow	Anatomical terminology
Anatomy	AN2.1	Describe parts, types, peculiarities of each type, blood and nerve supply of bones.	General features of bones & Joints
Anatomy	AN2.2	Describe the laws of ossification, epiphysis, its various types and their importance	General features of bones & Joints
Anatomy	AN2.3	Describe special features of a sesamoid bone	General features of bones & Joints
Anatomy	AN2.4	Describe various types of cartilage with its structure & distribution in body	General features of bones & Joints
Anatomy	AN2.5	Describe & demonstrate various joints with possible movements, subtypes and examples	General features of bones & Joints
Anatomy	AN2.6	Explain the concept of nerve supply of joints & Hilton's law	General features of bones & Joints
Anatomy	AN3.1	Classify & describe muscle tissue according to structure, size, shape, region & action	General features of Muscle
Anatomy	AN3.2	Describe parts of skeletal muscle and differentiate between tendons and aponeuroses with examples	General features of Muscle
Anatomy	AN3.3	Explain Shunt and spurt muscles with examples and role in joint movement	General features of Muscle
Anatomy	AN4.1	Describe different types of skin & dermatomes in body	General features of skin and fascia
Anatomy	AN4.2	Describe & demonstrate structure of skin with its appendages along with clinical anatomy	General features of skin and fascia
Anatomy	AN4.3	Describe structure, contents and identify modifications of superficial fascia along with fat distribution in body	General features of skin and fascia
Anatomy	AN4.4	Describe & demonstrate modifications of deep fascia with its location, function & examples	General features of skin and fascia
Anatomy	AN4.5	Explain principles of skin incisions and their surgical importance	General features of skin and fascia
Anatomy	AN5.1	Differentiate between blood vascular and lymphatic system	General features of the cardiovascular system
Anatomy	AN5.2	Differentiate between pulmonary and systemic circulation	General features of the cardiovascular system
Anatomy	AN5.3	Describegeneral differences between arteries, veins and sinuses	General features of the cardiovascular system

Anatomy	AN5.4	Explain functional and gross structural differences between elastic, muscular arteries and arterioles	General features of the cardiovascular system
Anatomy	AN5.5	Describe portal system giving examples	General features of the cardiovascular system
Anatomy	AN5.6	Describe the concept of anastomoses and collateral circulation, its different sites & significance of end arteries	General features of the cardiovascular system
Anatomy	AN5.7	Explain function of meta-arterioles, precapillary sphincters, arterio-venous anastomoses	General features of the cardiovascular system
Anatomy	AN5.8	Describe thrombosis, infarction & aneurysm	General features of the cardiovascular system
Anatomy	AN6.1	Describe the components and functions of the lymphatic system	General Features of lymphatic system
Anatomy	AN6.2	Describe structure of lymph capillaries & mechanism of lymph circulation	General Features of lymphatic system
Anatomy	AN6.3	Explain the concept of lymphoedema and spread of tumors via lymphatics and venous system	General Features of lymphatic system
Anatomy	AN7.1	Describe general plan of nervous system with components of central, peripheral & autonomic nervous systems	Introduction to the nervous system
Anatomy	AN7.2	List components of nervous tissue and their functions	Introduction to the nervous system
Anatomy	AN7.3	Describe parts of a neuron and classify them based on number of neurites, size & function	Introduction to the nervous system
Anatomy	AN7.4	Describe structure of a typical spinal nerve	Introduction to the nervous system
Anatomy	AN7.5	Describe principles of sensory and motor innervation of muscles	Introduction to the nervous system
Anatomy	AN7.6	Describe concept of loss of innervation of a muscle with its applied anatomy	Introduction to the nervous system
Anatomy	AN7.7	Describe various types of synapse	Introduction to the nervous system
Anatomy	AN7.8	Describe differences between sympathetic and spinal ganglia	Introduction to the nervous system
Anatomy	AN8.1	Identify the given bone, its side, anatomical position, joint formation, important features and clinical anatomy (clavicle, scapula, humerus, radius , ulna, carpal bones)	Features of individual bones (Upper Limb)

Anatomy	AN8.2	Demonstrate important muscle attachments on the given bone	Features of individual bones (Upper Limb)
Anatomy	AN8.3	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)
Anatomy	AN8.4	Describe scaphoid fracture and explain the anatomical basis of avascular necrosis	Features of individual bones (Upper Limb)
Anatomy	AN9.1	Describe attachment, nerve supply & action of pectoralis major and pectoralis minor and describe clavipectoral fascia	Pectoral region
Anatomy	AN9.2	Describe the location, extent, deep relations, structure, blood supply, lymphatic drainage, microanatomy and applied anatomy of breast	Pectoral region
Anatomy	AN9.3	Describe development of breast, associated age changes and congenital anomalies	Pectoral region
Anatomy	AN10.1	Identify & describe boundaries and contents of axilla	Axilla, Shoulder and Scapular region
Anatomy	AN10.2	Identify, describe and demonstrate the origin, extent, course, parts, relations and branches of axillary artery & tributaries of axillary vein	Axilla, Shoulder and Scapular region
Anatomy	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
Anatomy	AN10.4	Describe the anatomical groups of axillary lymph nodes and specify their areas of drainage	Axilla, Shoulder and Scapular region
Anatomy	AN10.5	Explain variations in formation of brachial plexus	Axilla, Shoulder and Scapular region
Anatomy	AN10.6	Explain the anatomical basis of clinical features of Erb's palsy and Klumpke's paralysis	Axilla, Shoulder and Scapular region
Anatomy	AN10.7	Describe axillary lymph nodes, areas of drainage and anatomical basis of their enlargement	Axilla, Shoulder and Scapular region
Anatomy	AN10.8	Describe, identify and demonstrate the position, attachment, nerve supply and actions of trapezius and latissimus dorsi	Axilla, Shoulder and Scapular region

Anatomy	AN10.9	Describe the arterial anastomosis around the scapula and mention the boundaries of triangle of auscultation	Axilla, Shoulder and Scapular region
Anatomy	AN10.10	Describe and identify the deltoid and rotator cuff muscles along with their nerve supply and clinical anatomy	Axilla, Shoulder and Scapular region
Anatomy	AN10.11	Describe & demonstrate attachment, action and clinical anatomy of serratus anterior muscle	Axilla, Shoulder and Scapular region
Anatomy	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	Axilla, Shoulder and Scapular region
Anatomy	AN10.13	Explain anatomical basis of Injury to axillary nerve during intramuscular injections	Axilla, Shoulder and Scapular region
Anatomy	AN11.1	Describe and demonstrate muscle groups of upper arm with emphasis on biceps and triceps brachii	Arm & Cubital fossa
Anatomy	AN11.2	Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels in arm	Arm & Cubital fossa
Anatomy	AN11.3	Describe the anatomical basis of Venipuncture of cubital veins	Arm & Cubital fossa
Anatomy	AN11.4	Describe the anatomical basis of Saturday night paralysis	Arm & Cubital fossa
Anatomy	AN11.5	Identify & describe boundaries and contents of cubital fossa	Arm & Cubital fossa
Anatomy	AN11.6	Describe the anastomosis around the elbow joint	Arm & Cubital fossa
Anatomy	AN12.1	Describe and demonstrate important muscle groups of ventral forearm with attachments, nerve supply and actions	Forearm & hand
Anatomy	AN12.2	Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels of forearm	Forearm & hand
Anatomy	AN12.3	Identify & describe flexor retinaculum with its attachments	Forearm & hand
Anatomy	AN12.4	Explain anatomical basis of carpal tunnel syndrome	Forearm & hand

Anatomy	AN12.5	Identify & describe small muscles of hand. Also describe movements of thumb and muscles involved	Forearm & hand
Anatomy	AN12.6	Describe & demonstrate movements of thumb and muscles involved	Forearm & hand
Anatomy	AN12.7	Identify & describe course and branches of important blood vessels and nerves in hand	Forearm & hand
Anatomy	AN12.8	Describe anatomical basis of Claw hand	Forearm & hand
Anatomy	AN12.9	Identify & describe fibrous flexor sheaths, ulnar bursa, radial bursa and digital synovial sheaths	Forearm & hand
Anatomy	AN12.10	Explain infection of fascial spaces of palm	Forearm & hand
Anatomy	AN12.11	Identify, describe and demonstrate important muscle groups of dorsal forearm with attachments, nerve supply and actions	Forearm & hand
Anatomy	AN12.12	Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of forearm	Forearm & hand
Anatomy	AN12.13	Describe the anatomical basis of Wrist drop	Forearm & hand
Anatomy	AN12.14	Identify & describe compartments deep to extensor retinaculum and describe the boundaries and contents of anatomical snuff box.	Forearm & hand
Anatomy	AN12.15	Identify & describe extensor expansion formation	Forearm & hand
Anatomy	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
Anatomy	AN13.2	Describe dermatomes of upper limb	General Features, Joints, radiographs & surface marking
Anatomy	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
Anatomy	AN13.4	Describe Sternoclavicular joint, Acromioclavicular joint, Carpometacarpal joints & Metacarpophalangealjoint	General Features, Joints, radiographs & surface marking

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
Anatomy	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 and Inferior angle of the scapula	General Features, Joints, radiographs & surface marking
Anatomy	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
Anatomy	AN13.8	Describe development of upper limb	General Features, Joints, radiographs & surface marking
Anatomy	AN14.1	Identify the given bone, its side, anatomical position, joint formation, important features and clinical anatomy (hip bone, femur, tibia fibula, tarsal bones)	Features of individual bones (Lower Limb)
Anatomy	AN14.2	Identify & describe joints formed by the given bone	Features of individual bones (Lower Limb)
Anatomy	AN14.3	Describe the importance of ossification of lower end of femur & upper end of tibia, and explain violation of law of ossification in fibula	Features of individual bones (Lower Limb)
Anatomy	AN14.4	Identify and name various bones in the articulated foot with individual muscle attachment	Features of individual bones (Lower Limb)
Anatomy	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
Anatomy	AN15.2	Describe and demonstrate major muscles with their attachment, nerve supply and actions	Front & Medial side of thigh
Anatomy	AN15.3	Describe and demonstrate boundaries, floor, roof and contents of femoral triangle	Front & Medial side of thigh

Anatomy	AN15.4	Explain anatomical basis of Psoas abscess & Femoral hernia	Front & Medial side of thigh
Anatomy	AN15.5	Describe and demonstrate adductor canal with its contents	Front & Medial side of thigh
Anatomy	AN16.1	Describe and demonstrate major muscles with their attachment, nerve supply and actions.	Gluteal region & back of thigh
Anatomy	AN16.2	Describeanddemonstrate structures under thecover of gluteus maximus. Also explain the anatomical basis of sciatic nerve injury during gluteal intramuscular injections	Gluteal region & back of thigh
Anatomy	AN16.3	Explain the anatomical basis of Trendelenburg sign	Gluteal region & back of thigh
Anatomy	AN16.4	Describe and demonstrate the hamstrings group of muscles with their attachment, nerve supply and actions	Gluteal region & back of thigh
Anatomy	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
Anatomy	AN16.6	Describe and demonstrate the boundaries, roof, floor, contents and relations of popliteal fossa with its clinical anatomy	Gluteal region & back of thigh
Anatomy	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
Anatomy	AN17.2	Describe anatomical basis of complications of fracture neck of femur	Hip Joint
Anatomy	AN17.3	Describe dislocation of hip joint and surgical hip replacement	Hip Joint
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
Anatomy	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

Anatomy	AN18.3	Explain the anatomical basis of foot drop	Knee joint, Anterior compartment of leg & dorsum of foot
Anatomy	AN18.4	Describe and demonstrate the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles involved, nerve supply, bursae around the knee joint along with anastomosis around the knee joint	Knee joint, Anterior compartment of leg & dorsum of foot
Anatomy	AN18.5	Explain the anatomical basis of locking and unlocking of the knee joint	Knee joint, Anterior compartment of leg & dorsum of foot
Anatomy	AN18.6	Describe knee joint injuries with its applied anatomy	Knee joint, Anterior compartment of leg & dorsum of foot
Anatomy	AN18.7	Explain anatomical basis of Osteoarthritis	Knee joint, Anterior compartment of leg & dorsum of foot
Anatomy	AN19.1	Describe and demonstrate the major muscles of back of leg with their attachment, nerve supply and actions	Back of Leg & Sole
Anatomy	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
Anatomy	AN19.3	Explain the concept of “Peripheral heart”	Back of Leg & Sole
Anatomy	AN19.4	Explain the anatomical basis of rupture of calcaneal tendon	Back of Leg & Sole
Anatomy	AN19.5	Describe factors maintaining importance arches of the foot with its importance	Back of Leg & Sole
Anatomy	AN19.6	Explain the anatomical basis of Flat foot & Club foot	Back of Leg & Sole
Anatomy	AN19.7	Explain the anatomical basis of Metatarsalgia & Plantar fasciitis	Back of Leg & Sole
Anatomy	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
Anatomy	AN20.2	Describe the subtalar and transverse tarsal joints	General Features, Joints, radiographs & surface marking

Anatomy	AN20.3	Describe and demonstrate Fascia lata, Venous drainage, Lymphatic drainage, Retinacula & Dermatomes of lower limb	General Features, Joints, radiographs & surface marking
Anatomy	AN20.4	Explain anatomical basis of enlarged inguinal lymph nodes	General Features, Joints, radiographs & surface marking
Anatomy	AN20.5	Explain anatomical basis of varicose veins and deep vein thrombosis	General Features, Joints, radiographs & surface marking
Anatomy	AN20.6	Identify the bones and joints of lower limb seen in anteroposterior and lateral view radiographs of various regions of lower limb	General Features, Joints, radiographs & surface marking
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
Anatomy	AN20.8	Identify & demonstrate palpation of femoral, popliteal, posterior tibial, anterior tibial & dorsalis pedis arteries in a simulated environment	General Features, Joints, radiographs & surface marking
Anatomy	AN20.9	Demonstrate surface projection of: femoral, popliteal, dorsalis pedis, post tibial arteries, Mid inguinal point, femoral nerve, Saphenous opening, Sciatic, tibial, common peroneal & deep peroneal nerve, Great and small saphenous veins	General Features, Joints, radiographs & surface marking
Anatomy	AN20.10	Describe basic concept of development of lower limb	General Features, Joints, radiographs & surface marking
Anatomy	AN21.1	Identify and describe the salient features of sternum, typical rib and typical thoracic vertebra.	Thoracic cage

Anatomy	AN21.2	Identify & describe the features of atypical ribs and atypical thoracic vertebrae.	Thoracic cage
Anatomy	AN21.3	Describe & demonstrate the boundaries of thoracic inlet, cavity and outlet along with its applied aspect.(Thoracic inlet Syndrome)	Thoracic cage
Anatomy	AN21.4	Describe & demonstrate extent, attachments, direction of fibres, nerve supply and actions of intercostal muscles	Thoracic cage
Anatomy	AN21.5	Describe & demonstrate origin, course, relations and branches of a typical intercostal nerve	Thoracic cage
Anatomy	AN21.6	Mention origin, course and branches/ tributaries of: 1) anterior & posterior intercostal vessels 2) internal thoracic vessels	Thoracic cage
Anatomy	AN21.7	Mention the origin, course, relations and branches of 1) atypical intercostal nerve 2) superior intercostal artery, subcostal artery	Thoracic cage
Anatomy	AN21.8	Describe & demonstrate type, articular surfaces & movements of manubriosternal, costovertebral, costotransverse and xiphisternal joints	Thoracic cage
Anatomy	AN21.9	Describe & demonstrate mechanics and types of respiration	Thoracic cage
Anatomy	AN21.10	Describe costochondral and interchondral joints	Thoracic cage
Anatomy	AN21.11	Mention boundaries and contents of the superior, anterior, middle and posterior mediastinum	Thoracic cage
Anatomy	AN22.1	Describe & demonstrate subdivisions, sinuses in pericardium, blood supply and nerve supply of pericardium	Heart & Pericardium
Anatomy	AN22.2	Describe & demonstrate external and internal features of each chamber of heart	Heart & Pericardium
Anatomy	AN22.3	Describe & demonstrate origin, course and branches of coronary arteries	Heart & Pericardium
Anatomy	AN22.4	Describe anatomical basis of ischaemic heart disease	Heart & Pericardium
Anatomy	AN22.5	Describe & demonstrate the formation, course, tributaries and termination of coronary sinus	Heart & Pericardium

Anatomy	AN22.6	Describe the fibrous skeleton of heart	Heart & Pericardium
Anatomy	AN22.7	Mention the parts, position and arterial supply of the conducting system of heart	Heart & Pericardium
Anatomy	AN23.1	Describe & demonstrate the external appearance, relations, blood supply, nerve supply, lymphatic drainage and applied anatomy of oesophagus	Mediastinum
Anatomy	AN23.2	Describe & demonstrate the extent, relations and tributaries of thoracic duct and enumerate its applied anatomy.	Mediastinum
Anatomy	AN23.3	Describe & demonstrate origin, course, relations, tributaries and termination of superior vena cava, azygos, hemiazygos andaccessory hemiazygos veins	Mediastinum
Anatomy	AN23.4	Mention the extent, branches and relations of arch of aorta & descending thoracic aorta	Mediastinum
Anatomy	AN23.5	Identify & Mention the location and extent of thoracic sympathetic chain	Mediastinum
Anatomy	AN23.6	Describe the splanchnic nerves	Mediastinum
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	Lungs & Trachea
Anatomy	AN24.2	Identify side, external features and relations of structures which form root of lung & bronchial tree and their clinical correlate	Lungs & Trachea
Anatomy	AN24.3	Describe a bronchopulmonary segment with its clinical anatomy	Lungs & Trachea
Anatomy	AN24.4	Identify phrenic nerve & describe its formation & distribution	Lungs & Trachea
Anatomy	AN24.5	Mention the blood supply, lymphatic drainage and nerve supply of lungs	Lungs & Trachea
Anatomy	AN24.6	Describethe extent, length, relations, bloodsupply, lymphatic drainageand nerve supply of trachea	Lungs & Trachea
Anatomy	AN25.1	Identify, draw and label a slide of trachea and lung	Thorax
Anatomy	AN25.2	Describe development of pleura, lung & heart	Thorax

Anatomy	AN25.3	Describe fetal circulation and changes occurring at birth	Thorax
Anatomy	AN25.4	Describe embryological basis of: 1) atrial septal defect, 2) ventricular septal defect, 3) Fallot's tetralogy & 4) tracheoesophageal fistula	Thorax
Anatomy	AN25.5	Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta	Thorax
Anatomy	AN25.6	Mention development of aortic arch arteries, SVC, IVC and coronary sinus	Thorax
Anatomy	AN25.7	Identify structures seen on a plain x-ray chest (PA view)	Thorax
Anatomy	AN25.8	Identify and describe in brief a barium swallow	Thorax
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	Thorax
Anatomy	AN26.1	Describe & demonstrate anatomical position of skull, Identify and locate individual skull bones in skull	Skull osteology
Anatomy	AN26.2	Describe & demonstrate the features of norma frontalis, verticalis, occipitalis, lateralis and basalis	Skull osteology
Anatomy	AN26.3	Describe & demonstrate cranial cavity, its subdivisions, foramina and structures passing through them	Skull osteology
Anatomy	AN26.4	Describe & demonstrate morphological features of mandible	Skull osteology
Anatomy	AN26.5	Describe & demonstrate features of typical and atypical cervical vertebrae (atlas and axis)	Skull osteology
Anatomy	AN26.6	Explain the concept of bones that ossify in membrane	Skull osteology
Anatomy	AN26.7	Describe & demonstrate the features of the 7th cervical vertebra	Skull osteology
Anatomy	AN27.1	Describe & demonstrate the layers of scalp, its blood supply, nerve supply and surgical importance.	Scalp

Anatomy	AN27.2	Describe emissary veins with its role in the spread of infection from extracranial route to intracranial venous sinuses	Scalp
Anatomy	AN28.1	Describe & demonstrate muscles of facial expression and their nerve supply	Face & parotid region
Anatomy	AN28.2	Describe sensory innervation of face	Face & parotid region
Anatomy	AN28.3	Describe & demonstrate origin /formation, course, branches /tributaries of facial vessels	Face & parotid region
Anatomy	AN28.4	Describe & demonstrate branches of facial nerve with distribution	Face & parotid region
Anatomy	AN28.5	Describe cervical lymph nodes and lymphatic drainage of head, face and neck	Face & parotid region
Anatomy	AN28.6	Identify superficial muscles of face, their nerve supply and actions	Face & parotid region
Anatomy	AN28.7	Explain the anatomical basis of facial nerve palsy	Face & parotid region
Anatomy	AN28.8	Explain surgical importance of deep facial vein	Face & parotid region
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	Face & parotid region
Anatomy	AN28.10	Explain the anatomical basis of Frey's syndrome	Face & parotid region
Anatomy	AN29.1	Describe and demonstrate the boundaries, subdivisions and contents of posterior triangle of neck	Posterior triangle of neck
Anatomy	AN29.2	Describe & demonstrate attachments, nerve supply, relations and actions of sternocleidomastoid	Posterior triangle of neck
Anatomy	AN29.3	Explain anatomical basis of Erb's & Klumpke's palsy	Posterior triangle of neck
Anatomy	AN29.4	Explain anatomical basis of wry neck	Posterior triangle of neck
Anatomy	AN29.5	Describe & demonstrate attachments of 1) inferior belly of omohyoid, 2)scalenus anterior, 3) scalenus medius & 4) levator scapulae	Posterior triangle of neck
Anatomy	AN30.1	Describe the cranial fossae & identify related structures	Cranial cavity
Anatomy	AN30.2	Describe & identify major foramina with structures passing through them	Cranial cavity
Anatomy	AN30.3	Describe & identify dural folds & dural venous sinuses	Cranial cavity

Anatomy	AN30.4	Describe clinical importance of dural venous sinuses	Cranial cavity
Anatomy	AN30.5	Explain effect of pituitary tumours on visual pathway	Cranial cavity
Anatomy	AN31.1	Describe & identify extra ocular muscles of eyeball, along with a note on its attachment, action and clinical anatomy	Orbit
Anatomy	AN31.2	Describe & demonstrate nerves and vessels in the orbit	Orbit
Anatomy	AN31.3	Describe anatomical basis of Horner's syndrome	Orbit
Anatomy	AN31.4	Describe the components of lacrimal apparatus	Orbit
Anatomy	AN31.5	Explain the anatomical basis of oculomotor, trochlear and abducent nerve palsies along with strabismus	Orbit
Anatomy	AN32.1	Describe boundaries and subdivisions of anterior triangle	Anterior Triangle
Anatomy	AN32.2	Describe & demonstrate boundaries and contents of muscular, carotid, digastric and submental triangles	Anterior Triangle
Anatomy	AN33.1	Describe & demonstrate extent, boundaries and contents of temporal and infratemporal fossae	Temporal and Infratemporal regions
Anatomy	AN33.2	Describe & demonstrate attachments, direction of fibres, nerve supply and actions of muscles of mastication	Temporal and Infratemporal regions
Anatomy	AN33.3	Describe & demonstrate articulating surface, type & movements of temporomandibular joint	Temporal and Infratemporal regions
Anatomy	AN33.4	Explain the clinical significance of pterygoid venous plexus	Temporal and Infratemporal regions
Anatomy	AN33.5	Describe the features of dislocation of temporomandibular joint	Temporal and Infratemporal regions
Anatomy	AN34.1	Describe and demonstrate the superficial and deep structures, muscles, nerves, vessels, and glands in the submandibular region	Submandibular region
Anatomy	AN34.2	Describe & demonstrate the morphology, relations and nerve supply of submandibular salivary gland & submandibularganglion	Submandibular region
Anatomy	AN34.3	Describe the basis of formation of submandibular stones	Submandibular region

Anatomy	AN35.1	Describe the parts, extent, attachments, modifications of deep cervical fascia	Deep structures in the neck
Anatomy	AN35.2	Describe & demonstrate location, parts, borders, surfaces, relations, blood supply & applied anatomy of thyroid gland. Also describe the parathyroid glands in brief.	Deep structures in the neck
Anatomy	AN35.3	Demonstrate & describe the origin, parts, course & branches subclavian artery	Deep structures in the neck
Anatomy	AN35.4	Describe & demonstrate origin, course, relations, tributaries and termination of internal jugular & brachiocephalic veins	Deep structures in the neck
Anatomy	AN35.5	Describe and demonstrate extent, drainage & applied anatomy of cervical lymph nodes	Deep structures in the neck
Anatomy	AN35.6	Describe and demonstrate the extent, formation, relation & branches of cervical sympathetic chain	Deep structures in the neck
Anatomy	AN35.7	Describe the course and branches of IX, X, XI & XII nerve in the neck	Deep structures in the neck
Anatomy	AN35.8	Describe the anatomically relevant clinical features of Thyroid swellings	Deep structures in the neck
Anatomy	AN35.9	Describe the clinical features of compression of subclavian artery and lower trunk of brachial plexus by cervical rib	Deep structures in the neck
Anatomy	AN35.10	Describe the fascial spaces of neck	Deep structures in the neck
Anatomy	AN36.1	Describe and demonstrate the structures of the vestibule of the mouth and oral cavity proper.	Mouth, Pharynx & Palate
Anatomy	AN36.2	Describe the 1) morphology, relations, blood supply andapplied anatomy of palatine tonsil 2) composition of soft palate	Mouth, Pharynx & Palate
Anatomy	AN36.3	Describe and demonstrate the muscles, nerve supply, blood supply and lymphatic drainage of the pharynx	Mouth, Pharynx & Palate
Anatomy	AN36.4	Describe the components and functions of Waldeyer's lymphatic ring	Mouth, Pharynx & Palate
Anatomy	AN36.5	Describe the pharyngeal spaces. Also describe the boundaries and clinical significance of pyriform fossa	Mouth, Pharynx & Palate
Anatomy	AN36.6	Describe the anatomical basis of tonsillitis, tonsillectomy, adenoids and peri-tonsillar abscess	Mouth, Pharynx & Palate
Anatomy	AN36.7	Describe the clinical significance of Killian's dehiscence	Mouth, Pharynx & Palate

Anatomy	AN37.1	Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply	Cavity of Nose
Anatomy	AN37.2	Describe location and functional anatomy of paranasal sinuses	Cavity of Nose
Anatomy	AN37.3	Describe anatomical basis of sinusitis & maxillary sinus tumours	Cavity of Nose
Anatomy	AN38.1	Describe & demonstrate the morphology, identify structure of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of the larynx	Larynx
Anatomy	AN38.2	Describe the anatomical aspects of laryngitis	Larynx
Anatomy	AN38.3	Describe anatomical basis of recurrent laryngeal nerve injury	Larynx
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
Anatomy	AN39.2	Explain the anatomical basis of hypoglossal nerve palsy	Tongue
Anatomy	AN40.1	Describe & identify the parts, blood supply and nerve supply of external ear	Organs of hearing and equilibrium
Anatomy	AN40.2	Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube	Organs of hearing and equilibrium
Anatomy	AN40.3	Describe the features of internal ear	Organs of hearing and equilibrium
Anatomy	AN40.4	Explain anatomical basis of otitis externa and otitis media	Organs of hearing and equilibrium
Anatomy	AN40.5	Explain anatomical basis of myringotomy	Organs of hearing and equilibrium
Anatomy	AN41.1	Describe & demonstrate parts and layers of eyeball	Eyeball
Anatomy	AN41.2	Describe the anatomical aspects of cataract, glaucoma & central retinal artery occlusion	Eyeball
Anatomy	AN41.3	Describe the position, nerve supply and actions of intraocular muscles	Eyeball
Anatomy	AN42.1	Describe and demonstrate the contents of the vertebral canal	Back Region
Anatomy	AN42.2	Describe & demonstrate the boundaries and contents of Suboccipital triangle	Back Region

Anatomy	AN42.3	Describe the position, direction of fibres, relations, nerve supply, actions of semispinalis capitis and splenius capitis	Back Region
Anatomy	AN43.1	Describe & demonstrate the movements with muscles producing the movements of atlantooccipital joint & atlantoaxial joint	Head & neck Joints, Histology, Development, Radiography & Surface marking
Anatomy	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
Anatomy	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
Anatomy	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
Anatomy	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	Head & neck Joints, Histology, Development, Radiography & Surface marking
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	Head & neck Joints, Histology, Development, Radiography & Surface marking
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	Head & neck Joints, Histology, Development, Radiography & Surface marking
Anatomy	AN43.8	Describe the anatomical route used for carotid angiogram and vertebral angiogram	Head & neck Joints, Histology, Development, Radiography & Surface marking
Anatomy	AN43.9	Identify anatomical structures in carotid angiogram and vertebral angiogram	Head & neck Joints, Histology, Development, Radiography & Surface marking

Anatomy	AN44.1	Describe & demonstrate the Planes (transpyloric, transtubercular, subcostal, lateral vertical, linea alba, linea semilunaris), regions & Quadrants of abdomen	Anterior abdominal wall
Anatomy	AN44.2	Describe & identify the Fascia, nerves & blood vessels of anterior abdominal wall	Anterior abdominal wall
Anatomy	AN44.3	Describe the formation of rectus sheath and its contents	Anterior abdominal wall
Anatomy	AN44.4	Describe & demonstrate extent, boundaries, contents of Inguinal canal including Hesselbach's triangle.	Anterior abdominal wall
Anatomy	AN44.5	Explain the anatomical basis of inguinal hernia.	Anterior abdominal wall
Anatomy	AN44.6	Describe & demonstrate attachments of muscles of anterior abdominal wall	Anterior abdominal wall
Anatomy	AN44.7	Describe common abdominal incisions with example and their clinical importance	Anterior abdominal wall
Anatomy	AN45.1	Describe Thoracolumbar fascia, its different layers, their attachments and extents	Posterior abdominal wall
Anatomy	AN45.2	Describe & demonstrate Lumbar plexus, its root value, formation, branches and clinical anatomy (compression/ injury to the rootlets of lumber plexus)	Posterior abdominal wall
Anatomy	AN45.3	Describe and demonstrate back muscles, nerve supply and action	Posterior abdominal wall
Anatomy	AN46.1	Describe & demonstrate coverings, internal structure, side determination, blood supply, nerve supply, lymphatic drainage & descent of testis with its applied anatomy	Male external genitalia
Anatomy	AN46.2	Describe parts of Epididymis	Male external genitalia
Anatomy	AN46.3	Describe Penis under following headings: (parts, components, blood supply and lymphatic drainage)	Male external genitalia
Anatomy	AN46.4	Explain the anatomical basis of Varicocele	Male external genitalia
Anatomy	AN46.5	Explain the anatomical basis of Phimosis & Circumcision	Male external genitalia
Anatomy	AN47.1	Describe & demonstrate horizontal and vertical tracing of peritoneum. Also describe boundaries and recesses of Lesser & Greater sac.	Abdominal cavity
Anatomy	AN47.2	Name & identify various peritoneal folds & pouches with its explanation .	Abdominal cavity

Anatomy	AN47.3	Explain anatomical basis of Ascites & Peritonitis	Abdominal cavity
Anatomy	AN47.4	Explain anatomical basis of Subphrenic abscess	Abdominal cavity
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)	Abdominal cavity
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	Abdominal cavity
Anatomy	AN47.7	Demonstrate boundaries of Calot's triangle and mention its clinical importance	Abdominal cavity
Anatomy	AN47.8	Describe & identify the formation, course relations and tributaries of Portal vein, Inferior vena cava & Renal vein	Abdominal cavity
Anatomy	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
Anatomy	AN47.10	Describe sites of portosystemic anastomosis, describe its applied anatomy andanatomical correlations	Abdominal cavity
Anatomy	AN47.11	Explain the anatomic basis of hematemesis& caput medusae in portal hypertension	Abdominal cavity
Anatomy	AN47.12	Describe important nerve plexuses of posterior abdominal wall	Abdominal cavity
Anatomy	AN47.13	Describe & demonstrate the attachments, openings, nerve supply & action of the thoracoabdominal diaphragm	Abdominal cavity
Anatomy	AN47.14	Describe the abnormal openings of thoracoabdominal diaphragm and diaphragmatic hernia	Abdominal cavity

Anatomy	AN48.1	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
Anatomy	AN48.2	Describe & identify the muscles of Pelvic diaphragm.	Pelvic wall and viscera
Anatomy	AN48.3	Describe & demonstrate the origin, course, important relations and branches of internal iliac artery	Pelvic wall and viscera
Anatomy	AN48.4	Describe the branches of sacral plexus	Pelvic wall and viscera
Anatomy	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	Pelvic wall and viscera
Anatomy	AN48.6	Describe the neurological basis of Automatic bladder	Pelvic wall and viscera
Anatomy	AN48.7	Mention the lobes involved in benign prostatic hypertrophy & prostatic cancer	Pelvic wall and viscera
Anatomy	AN48.8	Mention the structures palpable during vaginal & rectal examination	Pelvic wall and viscera
Anatomy	AN49.1	Describe& demonstrate the superficial & deep perineal pouch (boundaries and contents)	Perineum
Anatomy	AN49.2	Describe & identify Perineal body	Perineum
Anatomy	AN49.3	Describe & demonstrate Perineal membrane in male & female	Perineum
Anatomy	AN49.4	Describe & demonstrate boundaries, content & applied anatomy of Ischiorectal fossa	Perineum
Anatomy	AN49.5	Explain the anatomical basis of Perineal tear, Episiotomy, Perianal abscess and Anal fissure	Perineum
Anatomy	AN50.1	Describe the curvatures of the vertebral column	Vertebral column
Anatomy	AN50.2	Describe & demonstrate the type, articular ends, ligaments and movements of Intervertebral joints, Sacroiliac joints & Pubic symphysis	Vertebral column
Anatomy	AN50.3	Describe lumbar puncture (site, direction of the needle, structures pierced during the lumbar puncture)	Vertebral column

Anatomy	AN50.4	Explain the anatomical basis of Scoliosis, Lordosis, Prolapsed disc, Spondylolisthesis & Spina bifida	Vertebral column
Anatomy	AN51.1	Describe & identify the cross-section at the level of T8, T10 and L1 (transpyloric plane)	Sectional Anatomy
Anatomy	AN51.2	Describe & identify the midsagittal section of male and female pelvis	Sectional Anatomy
Anatomy	AN52.1	Describe & identify the microanatomical features of Gastro-intestina system: Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland	Histology & Embryology
Anatomy	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
Anatomy	AN52.3	Describe & identify the microanatomical features of Cardiooesophageal junction, Corpus luteum	Histology & Embryology
Anatomy	AN52.4	Describe the development of anterior abdominal wall	Histology & Embryology
Anatomy	AN52.5	Describe the development and congenital anomalies of Diaphragm	Histology & Embryology
Anatomy	AN52.6	Describe the development and congenital anomalies of: Foregut, Midgut & Hindgut	Histology & Embryology
Anatomy	AN52.7	Describe the development of Urinary system	Histology & Embryology
Anatomy	AN52.8	Describe the development of male & female reproductive system	Histology & Embryology
Anatomy	AN53.1	Identify & hold the bone in the anatomical position, Describe the salient features, articulations & demonstrate the attachments of muscle groups	Osteology
Anatomy	AN53.2	Demonstrate the anatomical position of bony pelvis & show boundaries of pelvic inlet, pelvic cavity, pelvic outlet	Osteology
Anatomy	AN53.3	Define true pelvis and false pelvis and demonstrate sex determination in male & female bony pelvis	Osteology

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
Anatomy	AN54.1	Describe the principles of Plain and contrast radiography, Computed Tomography, Magnetic Resonance Imaging, Positron Emission Tomography scan and Digital subtraction angiography	Radiodiagnosis
Anatomy	AN54.2	Describe & identify features of plain X ray abdomen	Radiodiagnosis
Anatomy	AN54.3	Describe & identify the special radiographs of abdominopelvic region (contrast X ray Barium swallow, Barium meal, Barium enema Cholecystography, Intravenous pyelography & Hysterosalpingography)	Radiodiagnosis
Anatomy	AN54.4	Describe role of ERCP, CT abdomen, MRI, Arteriography in radiodiagnosis of abdomen	Radiodiagnosis
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	Surface marking
Anatomy	AN55.2	Demonstrate the surface projections of: Stomach, Liver, Fundus of gal bladder, Spleen, Duodenum, Pancreas, Ileocaecal junction, Kidneys & Root of mesentery	Surface marking
Anatomy	AN56.1	Describe & identify various layers of meninges with its extent & modifications	Meninges & CSF
Anatomy	AN56.2	Describe formation, circulation and absorption of CSF with its applied anatomy.	Meninges & CSF
Anatomy	AN57.1	Identify external features of spinal cord	Spinal Cord
Anatomy	AN57.2	Describe extent of spinal cord in child & adult with its clinical implication	Spinal Cord
Anatomy	AN57.3	Draw & label transverse section of spinal cord at mid-cervical & mid- thoracic level	Spinal Cord
Anatomy	AN57.4	Enumerate ascending & descending tracts at mid thoracic level of spinal cord	Spinal Cord
Anatomy	AN57.5	Describe the anatomical basis of clinical conditions affecting the grey and white matter of spinal cord (Brown-Sequard Syndrome, Poliomyelitis Amyotrophic lateral sclerosis or motor neuron disease, Syringomyelia Hereditary sensory neuropathy, Subacute Combined degeneration Transversemyelitis, paraplegia)	Spinal Cord

Anatomy	AN58.1	Identify external features of medulla oblongata	Medulla Oblongata
Anatomy	AN58.2	Describe transverse section of medulla oblongata at the level of 1) pyramidal decussation, 2) sensory decussation 3) Inferior Olivary Nucleus	Medulla Oblongata
Anatomy	AN58.3	Describe cranial nerve nuclei in medulla oblongata with their functional group	Medulla Oblongata
Anatomy	AN58.4	Describe the anatomical basis of clinical conditions affecting the medulla oblongata (Medial and lateral medullary syndromes, Crossed Diplegia)	Medulla Oblongata
Anatomy	AN59.1	Identify external features of pons	Pons
Anatomy	AN59.2	Draw & label transverse section of pons at the upper and lower level	Pons
Anatomy	AN59.3	Describe cranial nerve nuclei in pons with their functional group	Pons
Anatomy	AN59.4	Describe the anatomical basis of clinical conditions affecting the pons (Locked-in syndrome, Pontine haemorrhage, Foville syndrome, Raymond syndrome, Millard-Gubler syndrome)	Pons
Anatomy	AN60.1	Describe & demonstrate external & internal features of cerebellum	Cerebellum
Anatomy	AN60.2	Describe connections of cerebellar cortex and intracerebellar nuclei	Cerebellum
Anatomy	AN60.3	Describe anatomical basis of cerebellar dysfunction	Cerebellum
Anatomy	AN61.1	Identify external & internal features of midbrain	Midbrain
Anatomy	AN61.2	Describe internal features of midbrain at the level of superior & inferior colliculus	Midbrain
Anatomy	AN61.3	Describe the anatomical basis of clinical conditions affecting the midbrain (Weber syndrome, Benedikt syndrome, Parinaud syndrome)	Midbrain
Anatomy	AN62.1	Describe the cranial nerve nuclei with its functional components	Cranial nerve nuclei & Cerebral hemispheres
Anatomy	AN62.2	Describe & demonstrate surfaces, sulci, gyri, poles, & functional areas of cerebral hemisphere. Also describe the effects of damage to various functional areas of cerebral cortex	Cranial nerve nuclei & Cerebral hemispheres
Anatomy	AN62.3	Describe the white matter of cerebrum. Also describe the effects of damage to corpus callosum and different parts of internal capsule	Cranial nerve nuclei & Cerebral hemispheres
Anatomy	AN62.4	Describe the parts & major connections of basal ganglia & limbic lobe. Also explain the anatomical basis of Parkinson's disease, chorea, athetosis and ballismus	Cranial nerve nuclei & Cerebral hemispheres

Anatomy	AN62.5	Describe boundaries, parts, gross relations, major nuclei and connections of dorsal thalamus, hypothalamus, epithalamus, metathalamus and subthalamus	Cranial nerve nuclei & Cerebral hemispheres
Anatomy	AN62.6	Describe & identify formation, branches & major areas of distribution of circle of Willis	Cranial nerve nuclei & Cerebral hemispheres
Anatomy	AN63.1	Describe & demonstrate parts, boundaries & features of 3rd, 4th & lateral ventricle	Ventricular System & Special sensory pathways
Anatomy	AN63.2	Describe anatomical basis of congenital hydrocephalus	Ventricular System & Special sensory pathways
Anatomy	AN63.3	Describe the olfactory, visual, auditory and gustatory pathways	Ventricular System & Special sensory pathways
Anatomy	AN64.1	Describe & identify the microanatomical features of Spinal cord, Cerebellum & Cerebrum	Histology & Embryology
Anatomy	AN64.2	Describe the development of neural tube, spinal cord, medulla oblongata, pons, midbrain, cerebral hemisphere & cerebellum	Histology & Embryology
Anatomy	AN64.3	Describe various types of open neural tube defects with its embryological basis	Histology & Embryology
Anatomy	AN65.1	Identify epithelium under the microscope & describe the various types that correlate to its function	Epithelium histology
Anatomy	AN65.2	Describe the ultrastructure of epithelium	Epithelium histology
Anatomy	AN66.1	Describe & identify various types of connective tissue with functional correlation	Connective tissue histology
Anatomy	AN66.2	Describe the ultrastructure of connective tissue	Connective tissue histology
Anatomy	AN67.1	Describe & identify various types of muscle under the microscope	Muscle histology
Anatomy	AN67.2	Classify muscleand describe the structure-function correlation of the same	Muscle histology
Anatomy	AN67.3	Describe the ultrastructure of muscular tissue	Muscle histology
Anatomy	AN68.1	Describe & Identify multipolar & unipolar neuron, ganglia, peripheral nerve under the microscope	Nervous tissue histology
Anatomy	AN68.2	Describe the structure-function correlation of neuron	Nervous tissue histology
Anatomy	AN68.3	Describe the ultrastructure of nervous tissue	Nervous tissue histology
Anatomy	AN69.1	Identify elastic & muscular blood vessels, capillaries under the microscope	Blood Vessels
Anatomy	AN69.2	Describe the various types and structure-function correlation of blood vessel	Blood Vessels
Anatomy	AN69.3	Describe the ultrastructure of blood vessels	Blood Vessels

Anatomy	AN70.1	Identify exocrine gland under the microscope & distinguish between serous, mucous and mixed acini	Glands & Lymphoid tissue
Anatomy	AN70.2	Identify the lymphoid tissue under the microscope & describe microanatomy of lymph node, spleen, thymus, tonsil andcorrelatethe structure with function	Glands & Lymphoid tissue
Anatomy	AN71.1	Identify bone under the microscope; classify various types and describe the structure-function correlation of the same	Bone & Cartilage
Anatomy	AN71.2	Identify cartilage under the microscope & describe various types and structure- function correlation of the same	Bone & Cartilage
Anatomy	AN72.1	Identify the skin and its appendages under the microscope and correlate the structure with function	Integumentary System
Anatomy	AN73.1	Describe the structure of chromosomes with classification	Chromosomes
Anatomy	AN73.2	Describe technique of karyotyping with its applications	Chromosomes
Anatomy	AN73.3	Describe the Lyon's hypothesis	Chromosomes
Anatomy	AN74.1	Describemendelian and non-mendelian inheritance. Explain various modes of inheritance with examples.	Patterns of Inheritance
Anatomy	AN74.2	Draw pedigree charts for the various types of inheritance & give examples of diseases of each mode of inheritance	Patterns of Inheritance
Anatomy	AN74.3	Describemultifactorial inheritance with examples	Patterns of Inheritance
Anatomy	AN74.4	Describe the genetic basis & clinical features of Achondroplasia, Cystic Fibrosis, Vitamin D resistant	Patterns of Inheritance
Anatomy	AN75.1	Describe the structural and numerical chromosomal aberrations	Principles of Genetics, Chromosomal Aberrations & Clinical Genetics
Anatomy	AN75.2	Explain the terms mosaics and chimeras with example	Principles of Genetics, Chromosomal Aberrations & Clinical Genetics
Anatomy	AN75.3	Describe the genetic basis & clinical features of: Prader Willi syndrome, Edward syndrome, Patau syndrome, Down syndrome, Turner Syndrome & Klinefelter syndrome	Principles of Genetics, Chromosomal Aberrations & Clinical Genetics

Anatomy	AN75.4	Describe genetic basis of variation: polymorphism and mutation	Principles of Genetics, Chromosomal Aberrations & Clinical Genetics
Anatomy	AN75.5	Describe in brief: genetic counseling, karyotyping, FISH, PCR and genetic sequencing	Principles of Genetics, Chromosomal Aberrations & Clinical Genetics
Anatomy	AN76.1	Describe the stages of human life	Introduction to embryology
Anatomy	AN76.2	Explain the terms- phylogeny, ontogeny, trimester, viability	Introduction to embryology
Anatomy	AN77.1	Describe the uterine changes occurring during the menstrual cycle	Gametogenesis and fertilization
Anatomy	AN77.2	Describe the synchrony between the ovarian and menstrual cycles	Gametogenesis and fertilization
Anatomy	AN77.3	Describe spermatogenesis and oogenesis along with diagrams	Gametogenesis and fertilization
Anatomy	AN77.4	Describe the stages and consequences of fertilisation	Gametogenesis and fertilization
Anatomy	AN77.5	Describe the anatomical principles underlying contraception	Gametogenesis and fertilization
Anatomy	AN77.6	Describe teratogenic influences: fertility and sterility, surrogate motherhood, social significance of “sex- ratio”.	Gametogenesis and fertilization
Anatomy	AN78.1	Describe cleavage and formation of blastocyst	Second week of development
Anatomy	AN78.2	Describe the development of trophoblast	Second week of development
Anatomy	AN78.3	Describe the process of implantation & common abnormal sites of implantation	Second week of development
Anatomy	AN78.4	Describe the formation of extra-embryonic mesoderm and coelom, bilaminar disc and prochordal plate	Second week of development
Anatomy	AN78.5	Describe abortion, decidual reaction, pregnancy test	Second week of development
Anatomy	AN79.1	Describe the formation & fate of the primitive streak	3rd to 8th week of development
Anatomy	AN79.2	Describe formation & fate of notochord	4th to 8th week of development
Anatomy	AN79.3	Describe the process of neurulation	5th to 8th week of development
Anatomy	AN79.4	Describe the development of somites and intra-embryonic coelom	6th to 8th week of development
Anatomy	AN79.5	Explain embryological basis of congenital malformations, nucleus pulposus, sacrococcygeal teratomas, neural tube defects	7th to 8th week of development

Anatomy	AN79.6	Describe the diagnosis of pregnancy in first trimester and role of teratogens, alpha-fetoprotein	8th to 8th week of development
Anatomy	AN80.1	Describe formation, functions & fate of chorion, amnion, yolk sac, allantois & decidua	Fetal membranes
Anatomy	AN80.2	Describe formation & structure of umbilical cord	Fetal membranes
Anatomy	AN80.3	Describe formation of placenta, its physiological functions, foetomaternal circulation & placental barrier	Fetal membranes
Anatomy	AN80.4	Describe embryological basis of twinning in monozygotic & dizygotic twins	Fetal membranes
Anatomy	AN80.5	Describe role of placental hormones in uterine growth & parturition	Fetal membranes
Anatomy	AN80.6	Explain embryological basis of estimation of fetal age.	Fetal membranes
Anatomy	AN80.7	Describe various types of umbilical cord attachments	Fetal membranes
Anatomy	AN81.1	Describe various invasive & non-invasive methods of prenatal diagnosis	Prenatal Diagnosis
Anatomy	AN81.2	Describe indications, process and disadvantages of amniocentesis	Prenatal Diagnosis
Anatomy	AN81.3	Describe indications, process and disadvantages of chorion villus biopsy	Prenatal Diagnosis
Anatomy	AN82.1	Demonstrate respect, and follow the correct procedure when handling cadavers and other biologic tissue	Ethics in Anatomy
Community Medicine	CM1.1	Define and describe the concept of Public Health	Concept of Health
Community Medicine	CM1.2	Define health; describe the concept of holistic health including concept of spiritual health and the relativeness & determinants of health	Concept of Health
Community Medicine	CM1.3	Describe the characteristics of agent, host and environmental factors in health and disease and the multifactorial etiology of disease	Concept of Health
Community Medicine	CM1.4	Describe and discuss the natural history of disease	Concept of Health
Community Medicine	CM1.5	Describe the application of interventions at various levels of prevention	Concept of Health

Community Medicine	CM1.6	Describe and discuss the concepts, the principles of Health promotion and Education, IEC and Behavioral change communication (BCC)	Concept of Health
Community Medicine	CM1.7	Enumerate and describe health indicators	Concept of Health
Community Medicine	CM1.8	Describe the Demographic profile of India and discuss its Impact on health	Concept of Health
Community Medicine	CM1.9	Demonstrate the role of effective Communication skills in health in a simulated environment	Concept of Health
Community Medicine	CM1.10	Demonstrate the Important aspects of the doctor patient relationship in a simulated environment	Concept of Health
Community 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
Community Medicine	CM2.2	Describe the socio-cultural factors, family (types), its role in health anddisease&demonstrateinasimulatedenvironmentthecorrect assessment of socio-economic status	Relationship of social and behavioural to health and disease
Community Medicine	CM2.3	Describe and demonstrate in a simulated environment the assessmentofbarrierstogoodhealthandhealthseekingbehavior	Relationship of social and behavioural to health and disease
Community Medicine	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
Community Medicine	CM2.5	Describepovertyandsocialsecuritymeasuresanditsrelationship to health and disease	Relationship of social and behavioural to health and disease
Community Medicine	CM3.1	Describe the health hazards of air, water, noise, radiation and pollution	Environmental Health Problems
Community Medicine	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

Community Medicine	CM3.3	Describe the aetiology and basis of water borne diseases /jaundice /hepatitis /diarrheal diseases	Environmental Health Problems
Community Medicine	CM3.4	Describe the concept of solid waste, human excreta and sewage disposal	Environmental Health Problems
Community Medicine	CM3.5	Describe the standards of housing and the effect of housing on health	Environmental Health Problems
Community Medicine	CM3.6	Describe the role of vectors in the causation of diseases. Also discuss National Vector Borne disease Control Program	Environmental Health Problems
Community Medicine	CM3.7	Identify and describe the identifying features and life cycles of vectors of Public Health Importance and their control measures	Environmental Health Problems
Community Medicine	CM3.8	Describe the mode of action, application cycle of commonly used insecticides and rodenticides	Environmental Health Problems
Community Medicine	CM4.1	Describe various methods of health education with their advantages and limitations	Principles of health promotion and education
Community Medicine	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
Community Medicine	CM4.3	Demonstrate and describe the steps in evaluationof health promotion and education program	Principles of health promotion and education
Community Medicine	CM4.4	Conduct a health education session for community awareness in a simulated environment/FAP/clinical posting	Principles of health promotion and education
Community Medicine	CM5.1	Describe the common sources of various nutrients and special nutritional requirements according to age, sex, activity, physiological Conditions	Nutrition
Community Medicine	CM5.2	Describe and demonstrate the correct method of performing a nutritional assessmentof individuals, families andthecommunity by using the appropriate method	Nutrition
Community Medicine	CM5.3	Define and describe common nutrition related health disorders (includingmacro-PEM, Micro-iron, Zn, iodine, Vit.A), their control and management	Nutrition

Community Medicine	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
Community Medicine	CM5.5	Describe the methods of nutritional surveillance principles nutritional education and rehabilitation in the context of socio- cultural factors.	Nutrition
Community Medicine	CM5.6	Enumerate and discuss the National Nutrition Policy, important national nutritional Programs including the Integrated Child Development Services Scheme (ICDS) etc	Nutrition
Community Medicine	CM5.7	Describe food hygiene	Nutrition
Community Medicine	CM5.8	Describe and discuss the importance and methods of food fortification and effects of additives and adulteration	Nutrition
Community Medicine	CM5.9	Perform nutritional assessment of individual, family and community using appropriate method and plan a diet for health promotion based on the assessment	Nutrition
Community Medicine	CM5.10	Recommend a dietary plan for a person with DM/ HTN/ Obesity in a simulated environment/FAP/Clinical posting	Nutrition
Community Medicine	CM5.11	Plan a diet for an adult which meets the protein (macro nutrients) requirements as per latest RDA-NIN guidelines for vegetarian/ ovo-vegetarian/non-vegetarian	Nutrition
Community Medicine	CM5.12	Demonstrate different types of breastfeeding holds, latching, manual expression of breast milk using a baby model and breast model.	Nutrition
Community Medicine	CM5.13	Counsel a mother about complementary feeding for different age groups of the child covering the 8 dietary diversity food groups, quantity, frequency, consistency of the food.	Nutrition
Community Medicine	CM5.14	Demonstrate an awareness of their own personal health and nutrition	Nutrition
Community Medicine	CM5.15	Demonstrate knowledge of the role of nutrition in health promotion and disease prevention	Nutrition

Community Medicine	CM5.16	Have knowledge of breast feeding and complementary feeding Practices	Nutrition
Community Medicine	CM5.17	Ability to counsel mothers on breast feeding with focus on attachment to breast and correct position of the newborn	Nutrition
Community Medicine	CM5.18	Ability to counsel mothers on complementary feeding using National guidelines while being sensitive of cultural and socioeconomic influences	Nutrition
Community Medicine	CM5.19	Assess the nutritional content of processed foods learning to understand labels, and empower patients to make informed nutritional decisions.	Nutrition
Community Medicine	CM5.20	Counsel for diet modification for a diabetic/ hypertensive/obese individual	Nutrition
Community Medicine	CM5.21	Plan and conduct a health education session on nutrition in NCD clinic / in community	Nutrition
Community Medicine	CM5.22	Counsel mother on breast feeding and complementary feeding	Nutrition
Community Medicine	CM6.1	Formulate research question for a study	Basic statistics and its applications
Community Medicine	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
Community Medicine	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
Community Medicine	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
Community Medicine	CM6.5	Able to understand use of statistical software for the data analysis	Basic statistics and its applications
Community Medicine	CM6.6	Perform descriptive statistics of a given data-set and interpret	Basic statistics and its applications

Community Medicine	CM7.1	Define Epidemiology and describe and enumerate the principles, concepts and uses	Epidemiology
Community Medicine	CM7.2	Enumerate, describe and discuss the modes of transmission and measures for prevention and control of communicable and non-communicable diseases	Epidemiology
Community Medicine	CM7.3	Enumerate, describe and discuss the sources of epidemiological data	Epidemiology
Community Medicine	CM7.4	Define, calculate and interpret morbidity andmortality indicators based on given set of data	Epidemiology
Community Medicine	CM7.5	Enumerate, define, describe anddiscuss epidemiologicalstudy designs	Epidemiology
Community Medicine	CM7.6	Enumerate and evaluate the need ofscreening tests	Epidemiology
Community Medicine	CM7.7	Describe and demonstrate the steps in the Investigation of an epidemic of communicable diseaseand describethe principles of control measures	Epidemiology
Community Medicine	CM7.8	Describe the principles ofassociation, causation and biases in epidemiological studies	Epidemiology
Community Medicine	CM7.9	Describe and demonstrate the application of computers in epidemiology	Epidemiology
Community Medicine	CM7.10	Able to demonstrate development of research proposal	Epidemiology
Community Medicine	CM7.11	Able to demonstrate the skills for critically appraise the research articles or research data	Epidemiology
Community Medicine	CM8.1	Describe and discuss the epidemiological and control measures including the use of essential laboratory tests atthe primary care level for communicable diseases	Epidemiologyof communicable and non- communicable diseases
Community Medicine	CM8.2	Describe and discuss the epidemiological and control measures including the use of essential laboratory tests at theprimary care level for Non-Communicable diseases (diabetes, Hypertension, Stroke, obesity and cancer etc.)	Epidemiologyof communicable and non- communicable diseases

Community Medicine	CM8.3	Enumerate and describedisease specific National Health Programs including their prevention and treatment of a case	Epidemiologyof communicable and non- communicable diseases
Community Medicine	CM8.4	Describe the principles and enumerate the measures to control a disease epidemic	Epidemiologyof communicable and non- communicable diseases
Community Medicine	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	Epidemiologyof communicable and non- communicable diseases
Community Medicine	CM8.6	Educate and train health workers in disease surveillance, control & treatment and health education	Epidemiologyof communicable and non- communicable diseases
Community Medicine	CM8.7	Describe the principles of management of information systems	Epidemiologyof communicable and non- communicable diseases
Community Medicine	CM9.1	Define and describe the principles of Demography, Demographic cycle, Vital statistics	Demography and vital statistics
Community Medicine	CM9.2	Define, calculate and interpret demographic indices including birth rate, death rate, fertility rates	Demography and vital statistics
Community Medicine	CM9.3	Enumerate and describe the causes of declining sex-ratio and its social and health Implications	Demography and vital statistics
Community Medicine	CM9.4	Enumerate and describe the causes and consequences of population explosion and population dynamics of India.	Demography and vital statistics
Community Medicine	CM9.5	Describe the methods of population control	Demography and vital statistics
Community Medicine	CM9.6	Describe theNational PopulationPolicy	Demography and vital statistics
Community Medicine	CM9.7	Enumerate the sources of vital statistics including census, SRS, NFHS, NSSO etc	Demography and vital statistics
Community Medicine	CM10.1	Describe thecurrentstatus of Reproductive, maternal, newborn and Child Health	Reproductive maternal and child health
Community Medicine	CM10.2	Enumerate and describe the methods of screening high-risk groups and common health problems	Reproductive maternal and child health

Community Medicine	CM10.3	Describe local customs and practices during pregnancy, child birth, lactation and child feeding practices	Reproductive maternal and child health
Community Medicine	CM10.4	Describe thereproductive, maternal, newborn &child health (RMCH); child survival and safe motherhood interventions	Reproductive maternal and child health
Community Medicine	CM10.5	Describe Universal Immunization Program; Integrated Management of Neonatal and Childhood Illness (IMNCI) and other existing Programs.	Reproductive maternal and child health
Community Medicine	CM10.6	Enumerate and describe various family planning methods, their advantages and shortcomings	Reproductive maternal and child health
Community Medicine	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
Community Medicine	CM10.8	Describe the physiology, clinical management and principles of adolescent health including ARSH	Reproductive maternal and child health
Community Medicine	CM10.9	Describe and discuss gender issues and women empowerment	Reproductive maternal and child health
Community Medicine	CM10.10	Able to manage the health care services for reproductive and child care services under supervision	Reproductive maternal and child health
Community Medicine	CM11.1	Enumerate and describe the presenting features of patients with occupational illness including agriculture	Reproductive maternal and child health
Community Medicine	CM11.2	Describe the role, benefits and functioning of the employees state insurance scheme	Reproductive maternal and child health
Community Medicine	CM11.3	Enumerate and describe specific occupational health hazards, their risk factors and preventive measures	Reproductive maternal and child health
Community Medicine	CM11.4	Describe the principles of ergonomics in health preservation	Reproductive maternal and child health
Community Medicine	CM11.5	Describe occupational disorders of health professionals and their prevention & management	Reproductive maternal and child health
Community Medicine	CM11.6	Able to manage the occupational health services at factory or industry level in a simulated environment	Reproductive maternal and child health

Community Medicine	CM12.1	Define and describe the concept of Geriatric services	Geriatric services
Community Medicine	CM12.2	Describe health problems of aged population	Geriatric services
Community Medicine	CM12.3	Describe the prevention of health problems of aged population	Geriatric services
Community Medicine	CM12.4	Describe National program for elderly	Geriatric services
Community Medicine	CM12.5	Able to identify the health needs to elderly individuals at the earliest	Geriatric services
Community Medicine	CM13.1	Define and describe the concept of Disaster management	Disaster Management
Community Medicine	CM13.2	Describe disaster management cycle	Disaster Management
Community Medicine	CM13.3	Describe man-made disasters in terworld And in India	Disaster Management
Community Medicine	CM13.4	Describe the details ofthe National Disaster management Authority	Disaster Management
Community Medicine	CM13.5	Able to understand the management of handing a disaster in a simulated environment	Disaster Management
Community Medicine	CM14.1	Define and classify hospital waste	Hospitalwaste management
Community Medicine	CM14.2	Describe various methods of treatment of hospital waste	Hospitalwaste management
Community Medicine	CM14.3	Describe laws related to hospital waste management	Hospitalwaste management
Community Medicine	CM14.4	Able to segregate the various hospital waste	Hospitalwaste management

Community Medicine	CM15.1	Define and describe the concept of mental Health	Mental Health
Community Medicine	CM15.2	Describe warning signals of mental health disorder	Mental Health
Community Medicine	CM15.3	Describe National Mental Health program	Mental Health
Community Medicine	CM15.4	Able to recognise the mental issues among individuals, families and communities at the earlier stages	Mental Health
Community Medicine	CM16.1	Define anddescribe theconcept ofHealthplanning	Health planning and management
Community Medicine	CM16.2	Describeplanningcycle	Health planning and management
Community Medicine	CM16.3	Describe Healthmanagement techniques	Health planning and management
Community Medicine	CM16.4	Describe health planning in India and National policies related to health and health planning	Health planning and management
Community Medicine	CM16.5	Demonstrate understanding of concepts of Health planning in India, various health care economics analysis	Health planning and management
Community Medicine	CM17.1	Define and describe the concept of health care to community	Health care of the community
Community Medicine	CM17.2	Describe community diagnosis	Health care of the community
Community Medicine	CM17.3	Describe primary health care, its components and principles	Health care of the community
Community Medicine	CM17.4	Describe National policies related to health and health planning and millennium development goals	Health care of the community
Community Medicine	CM17.5	Describe healthcare delivery in India	Health care of the community

Community Medicine	CM17.6	Demonstrate understanding of health system functioning in India	Health care of the community
Community Medicine	CM18.1	Define and describe the concept of International health	International Health
Community Medicine	CM18.2	Describe roles of various international health agencies	International Health
Community Medicine	CM18.3	Demonstrate understanding role of various international and national agencies in health & disease with prevention of emergence and re- emergence of diseases and prevention of pandemic and handling the Pandemic	International Health
Community Medicine	CM19.1	Define and describe the concept of Essential Medicine List (EML)	Essential Medicine
Community Medicine	CM19.2	Describe roles of essential medicine in primary health care	Essential Medicine
Community Medicine	CM19.3	Describe counterfeit medicine and its prevention	Essential Medicine
Community Medicine	CM19.4	Demonstrate understanding of mechanism of identifying and calculation of requirements of various medicines and essential medicine at primary health care	Essential Medicine
Community Medicine	CM20.1	List Important public health events of last five years	Recent advances in Community Medicine
Community Medicine	CM20.2	Describe various issues during outbreaks and their prevention	Recent advances in Community Medicine
Community Medicine	CM20.3	Describe any event important to Health of the Community	Recent advances in Community Medicine
Community Medicine	CM20.4	Demonstrate awareness about laws pertaining to practice of community medicine	Recent advances in Community Medicine
Otorhinolaryngology	EN1.1	Describe the Anatomy & physiology of ear, nose, throat, head & neck	Anatomy and Physiology of ear, nose, throat, head & neck

Otorhinolaryngology	EN1.2	Describe the pathophysiology of common diseases in ENT like Chronic Otitis Media,,Otosclerosis, Adeno tonsillitis ,Nasal polyposis .	Anatomy and Physiology of ear, nose, throat, head & neck
Otorhinolaryngology	EN2.1	Elicit document and present an appropriate history in a patient presenting with an ENT complaint	Clinical Skills
Otorhinolaryngology	EN2.2	Demonstrate the correct use of conventional methods including head lamp in the examination of ear, nose and throat, the correct technique of examination of the nose & paranasal sinuses including the use of nasal speculum, examination of the throat including the use of a tongue depressor, examination of neck including elicitation of laryngeal crepitus	Clinical Skills
Otorhinolaryngology			
Otorhinolaryngology			
Otorhinolaryngology			
Otorhinolaryngology	EN2.3	Demonstrate the correct technique of examination of the ear including Otoscopy and demonstrate the correct technique of performance and interpretation of tuning fork tests .	Clinical Skills
Otorhinolaryngology			
Otorhinolaryngology	EN2.4	Describe the correct technique to perform and interpret pure tone audiogram & impedance audiogram	Clinical Skills
Otorhinolaryngology			
Otorhinolaryngology	EN2.5	Demonstrate the correct technique of otoscopy , to hold visualize and assess the mobility of the tympanic membrane , interpret and diagrammatically represent the findings.	Clinical Skills
Otorhinolaryngology	EN2.6	Choose correctly and interpret radiological, microbiological & histological investigations relevant to the ENT disorders	Clinical Skills

Otorhinolaryngology	EN2.7	Identify and describe the use of common instruments used in ENT surgery. Nose: FESS, Septoplasty, Nasal Bone Reduction Ear Tympanoplasty, mastoidectomy, Myringotomy Throat: Adenotonsillectomy, Foreign Body Removal from Airway and Food passage, Tracheostomy	Clinical Skills
Otorhinolaryngology	EN2.8	Enumerate suspect high-risk patients and risk factors associated with and identify by clinical examination malignant & pre-malignant Ent diseases	Clinical Skills
Otorhinolaryngology	EN2.9	Counsel and administer informed consent to patients and their families in a simulated environment for Ear: Tympanoplasty, mastoidectomy, Myringotomy Nose: FESS, Septoplasty, Nasal Bone Reduction Throat: Adenotonsillectomy, Foreign Body Removal from Airway and Food passage, Tracheostomy.	Clinical Skills
Otorhinolaryngology	EN2.10	Identify, resuscitate and manage ENT emergencies in a simulated environment (including tracheostomy, anterior nasal packing, removal of foreign bodies in ear, nose, throat, upper respiratory tract and food passages).	Clinical Skills
Otorhinolaryngology	EN2.11	Demonstrate the correct technique to instill topical medications into the ear, nose and throat in a simulated environment.	Clinical Skills
Otorhinolaryngology	EN2.12	Describe the national programs for prevention of deafness, cancer, noise & environmental pollution and participate actively in deafness week and world hearing day	Clinical Skills
Otorhinolaryngology	EN3.1	Observe and describe the indications for and steps involved in the performance of Oto-microscopic examination.	Diagnostic and Therapeutic competencies in ENT
Otorhinolaryngology	EN3.2	Observe and describe the indications for and steps involved in the performance of Diagnostic Nasal Endoscopy.	Diagnostic and Therapeutic procedures in ENT
Otorhinolaryngology	EN3.3	Observe and describe the indications for and steps involved in the performance of Rigid/Flexible Laryngoscopy	Diagnostic and Therapeutic procedures in ENT
Otorhinolaryngology			
Otorhinolaryngology			

Otorhinolaryngology			
Otorhinolaryngology	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 and throat
Otorhinolaryngology	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
Otorhinolaryngology	EN4.3	Elicit document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of ASOM	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.4	Elicit document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of OME	Management of diseases of ear, nose & throat
Otorhinolaryngology	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 ear discharge.	Management of diseases of ear, nose & throat
Otorhinolaryngology	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 mucosal type of CSOM.	Management of diseases of ear, nose & throat
Otorhinolaryngology	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 squamosal type of CSOM.	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.8	Describe the clinical features, choose the correct investigations and the principles of management of complications of CSOM.	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.9	Demonstrate the correct technique for wax removal from the ear in a simulated environment	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.10	Observe and describe the indications for and steps involved in myringotomy and tympanoplasty	Management of diseases of ear, nose & throat

Otorhinolaryngology	EN4.11	Observe and describe the indications for and steps involved in mastoidectomy	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.12	Describe the clinical features, investigations and principles of management of Acoustic neuroma	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.13	Describe the clinical features, investigations and principles of management of Otosclerosis	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.14	Describe the clinical features, investigations, and principles of management of Conductive Hearing Loss and Sensorineural hearing loss including Sudden Sensorineural Hearing Loss and Noise Induced Hearing Loss.	Management of diseases of ear, nose & throat
Otorhinolaryngology			
Otorhinolaryngology			
Otorhinolaryngology	EN4.15	Describe the anatomy of eustachian tube and discuss the clinical features, investigations, and management of Eustachian tube disorders.	Management of diseases of ear, nose & throat
Otorhinolaryngology			
Otorhinolaryngology	EN4.16	Describe the clinical features, investigations, and principles of management of Facial Nerve palsy	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.17	Describe the clinical features, investigations and management of Vertigo and assessment of vestibular functions.	Management of diseases of ear, nose & throat
Otorhinolaryngology			
Otorhinolaryngology	EN4.18	Describe the clinical features, investigations, and principles of management of Meniere's Disease	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.19	Describe the clinical features, investigations, and management of Tinnitus.	Management of diseases of ear, nose & throat

Otorhinolaryngology	EN4.20	Describe the clinical features, investigations, and management of Deaf child.	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.21	Elicit document and present a correct history demonstrate and describe the Causes, choose the correct investigations and describe the principles of management of Nasal Obstruction.	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.22	Describe the clinical features, investigations and management of DNS and observe and discuss the indications for the steps in septoplasty.	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.23	Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Adenoids	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.24	Elicit document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of Allergic Rhinitis	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.25	Elicit document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of Vasomotor Rhinitis	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.26	Elicit, document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of Acute & Chronic Rhinitis	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.27	Elicit, document and present a correct history, describe the clinical features, choose the correct investigations and describe the principles of management of Nasal Polyps	Management of diseases of ear, nose & throat

Otorhinolaryngology	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 Epistaxis	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.29	Describe the clinical features, choose the correct investigations and describe the principles of management of OBSTRUCTIVE SLEEP APNEA.	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.30	Describe the clinical features, investigations and principles of management of Head and Neck trauma.	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.31	Describe the clinical features, investigations and principles of management of nasopharyngeal Angiofibroma	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.32	Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Acute & Chronic Sinusitis and its Complications	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.33	Describe the clinical features, investigations and principles of management of Tumours of Nose, Nasopharynx and para nasal sinus	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.34	Describe the clinical features, investigation and management of granulomatous diseases of nose	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.35	Describe the clinical features, investigations and principles of management of diseases of the Salivary glands	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.36	Describe the clinical features, investigations and principles of management of Deep Neck space Infection	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.37	Elicit document and present a correct history describe the clinical features, choose the correct investigations and describe the principles of management of dysphagia	Management of diseases of ear, nose & throat

Otorhinolaryngology	EN4.38	Elicit document and present a correct history, describe the clinical features, choose the correct investigations , complications and describe the principles of management of Acute & Chronic Tonsillitis	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.39	Observe and describe the indications for and steps involved in a tonsillectomy / adenoidectomy and its complications	Management of diseases of ear, nose & throat
Otorhinolaryngology			
Otorhinolaryngology	EN4.40	Elicit, document and present a correct history, 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
Otorhinolaryngology	EN4.41	Describe the clinical features, investigations and principles of management of Benign lesion of larynx, Acute & Chronic inflammation of larynx, laryngeal paralysis.	Management of diseases of ear, nose & throat
Otorhinolaryngology			
Otorhinolaryngology			
Otorhinolaryngology	EN4.42	Describe the clinical features, investigations and principles of management of Malignancy of the Larynx & Hypopharynx.	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.43	Describe the clinical features, investigations and principles of management of Stridor	Management of diseases of ear, nose & throat
Otorhinolaryngology			
Otorhinolaryngology			

Otorhinolaryngology	EN4.44	Observe and describe the indications for and steps involved in tracheostomy and the care of the patient with a tracheostomy	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.45	Describe the Clinical features, Investigations and principles of management of diseases of Oesophagus	Management of diseases of ear, nose & throat
Otorhinolaryngology	EN4.46	Describe the clinical features, investigations and principles of management of HIV manifestations of the ENT	Management of diseases of ear, nose & throat
Pharmacology	PH1.1	Describe the principles of pharmacology, pharmacotherapeutics and define various terms in pharmacology.	General Pharmacology
Pharmacology	PH1.2	Describe evidence based medicine and rational use of drugs & discuss why these are relevant to therapeutics.	General Pharmacology
Pharmacology	PH1.3	Describe nomenclature of drugs i.e., generic, branded drugs and scheduled drugs, explaining the utility of the nomenclature, cost effectiveness and use.	General Pharmacology
Pharmacology	PH1.4	Identify the common drug formulations and drug delivery systems, demonstrate their use and describe their advantages and disadvantages.	General Pharmacology
Pharmacology	PH1.5	Describe various routes of drug administration, their advantages and disadvantages and demonstrate administration of, e.g., SC, IV, IM, SL, rectal, spinal, sublingual, intranasal sprays and inhalers	General Pharmacology
Pharmacology	PH1.6	Describe salient features of absorption, distribution, metabolism and excretion of drugs with emphasis on various routes of drug administration	General Pharmacology
Pharmacology	PH1.7	Describe various principles of mechanism of action of drugs	General Pharmacology
Pharmacology	PH1.8	Demonstrate the mechanism of action & effects of common prototype drugs on human body using computer assisted learning	General Pharmacology
Pharmacology	PH1.9	Select rational drug combinations based on the pharmacokinetics/pharmacodynamic (PK/PD) parameters with emphasis on synergism, antagonism, 'therapeutic efficacy', risk benefit ratio	General Pharmacology

Pharmacology	PH1.10	Describe changes in pharmacology of drugs in geriatric, pediatric and special situations such as Pregnancy, lactation, hepatic and renal disorders and adjust the drug treatment accordingly.	General Pharmacology
Pharmacology	PH1.11	Define Adverse Drug Reactions (ADRs) & their types. Identify the ADRs in the given case scenario and assess causality.	General Pharmacology
Pharmacology	PH1.12	Define Pharmacovigilance its principles and demonstrate ADR reporting	General Pharmacology
Pharmacology	PH1.13	Identify and describe the management of drug interactions	General Pharmacology
Pharmacology	PH2.1	Describe types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of adrenergic and antiadrenergic drugs	Autonomic & Peripheral Nervous system, Autacoids
Pharmacology	PH2.2	Describe types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of cholinergic and anticholinergic drugs and demonstrate OPC poisoning management	Autonomic & Peripheral Nervous system, Autacoids
Pharmacology	PH2.3	Explain the rationale and demonstrate the emergency use of various sympathetic and parasympathetic drug agonists/antagonists (like Noradrenaline/ Adrenaline/Dopamine/Dobutamine, Atropine) in case-based scenarios	Autonomic & Peripheral Nervous system, Autacoids
Pharmacology	PH2.4	Explain salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of skeletal muscle relaxants	Autonomic & Peripheral Nervous system, Autacoids
Pharmacology	PH2.5	Explain types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of local anaesthetics (LA) & demonstrate various methods of administration of LA	Autonomic & Peripheral Nervous system, Autacoids
Pharmacology	PH2.6	Explain types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of anti-histaminics and explain management of common cold & allergic rhinitis.	Autonomic & Peripheral Nervous system, Autacoids
Pharmacology	PH2.7	Define pain and enumerate drugs used for pain. Explain salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of analgesics including NSAIDs (except opioids)	Autonomic & Peripheral Nervous system, Autacoids

Pharmacology	PH2.8	Devise management plan for a case of gout, arthritis and migraine using appropriate drugs	Autonomic & Peripheral Nervous system, Autacoids
Pharmacology	PH3.1	Describe types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of General anaesthetics, and pre-anaesthetic medications	Central Nervous system
Pharmacology	PH3.2	Describe types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of different sedative and hypnotic agents and explain pharmacological basis of selection and use of different sedative and hypnotic agents	Central Nervous system
Pharmacology	PH3.3	Describe types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs used in epilepsy and devise management plan for a case of uncontrolled seizure	Central Nervous system
Pharmacology	PH3.4	Describe types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs of opioid analgesics and explain the special instructions for use of opioids.	Central Nervous system
Pharmacology	PH3.5	Describe types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs used for depression and psychosis, devise management plan for depressive and psychotic disorders	Central Nervous system
Pharmacology	PH3.6	Describe types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs used in anxiety disorders. Discuss about general goals of Pharmacotherapy for the management of above disorders	Central Nervous system
Pharmacology	PH3.7	Explain types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs used for Parkinsonism and other neurodegenerative disorders. Write a prescription to manage a case of drug induced parkinsonism	Central Nervous system
Pharmacology	PH3.8	Identify and manage methanol poisoning and chronic ethanol intoxication	Central Nervous system
Pharmacology			

Pharmacology	PH3.9	Describe the drugs that are abused and cause addiction (dependence, addiction, stimulants, depressants, psychedelics, drugs used for criminal offences). Explain the process and steps for management of drug de addiction	Central Nervous system
Pharmacology			
Pharmacology	PH4.1	Explain types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs used for different anaemias and thrombocytopenia.	Cardiovascular system & Blood
Pharmacology	PH4.2	Explain types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs acting on coagulation system (Coagulants/anticoagulants) and devise a plan to monitor therapy and management of adverse effects.	Cardiovascular system & Blood
Pharmacology	PH4.3	Describe types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of Fibrinolytics and Antifibrinolytic agents.	Cardiovascular system & Blood
Pharmacology	PH4.4	Explain types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of Antiplatelets agents.	Cardiovascular system & Blood
Pharmacology	PH4.5	Explain types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of Diuretics, antidiuretics- vasopressin and analogues	Cardiovascular system & Blood
Pharmacology	PH4.6	Explain salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs modulating renin angiotensin aldosterone system.	Cardiovascular system & Blood
Pharmacology	PH4.7	Explain types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs used for the management of hypertension Devise plan for pharmacologic management of hypertension with Diabetes, Pregnancy induced hypertension and hypertensive emergency and urgency	Cardiovascular system & Blood

Pharmacology	PH4.8	Describe types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs used for the management of ischemic heart disease (stable, unstable angina and myocardial infarction), peripheral vascular disease and devise management plan for a patient of acute myocardial Infarction	Cardiovascular system & Blood
Pharmacology	PH4.9	Explain salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs used for the management of heart failure. Devise management plan for heart failure patients and describe the strategies to prevent long term complications of heart failure.	Cardiovascular system & Blood
Pharmacology	PH4.10	Explain salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs used for cardiac arrhythmias. Devise a plan to manage a patient with supraventricular, ventricular arrhythmias, cardiac arrest and fibrillations	Cardiovascular system & Blood
Pharmacology	PH4.11	Explain salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs used for the management of dyslipidaemias and enumerate drugs leading to dyslipidaemias	Cardiovascular system & Blood
Pharmacology	PH5.1	Devise management of various stages of Bronchial asthma, COPD. Explain salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs used for the management of Bronchial asthma, COPD and Rhinitis.	Respiratory system
Pharmacology	PH5.2	Explain types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs used for cough management. Describe management of dry & productive cough	Respiratory system
Pharmacology	PH6.1	Explain types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs used in Acid peptic diseases including Peptic Ulcers, GERD and devise a management plan for a case of peptic ulcer.	Gastrointestinal system

Pharmacology	PH6.2	Describe types, salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of prokinetics & drugs used for emesis and antiemetics.	Gastrointestinal system
Pharmacology	PH6.3	Describe salient pharmacokinetics, pharmacodynamics, therapeutic uses, adverse drug reactions of drugs used for the management of diarrhoea and devise pharmacotherapeutic plan to manage acute and chronic diarrhoea in adults and children.	Gastrointestinal system
Pharmacology	PH6.4	Describe salient pharmacokinetics, pharmacodynamics, adverse drug reactions of drugs used for the management of constipation and devise management plan for a case of constipation	Gastrointestinal system
Pharmacology	PH6.5	Describe salient pharmacokinetics, pharmacodynamics, adverse drug reactions of drugs used for the management of Inflammatory Bowel Disease and Irritable Bowel Disorders	Gastrointestinal system
Pharmacology	PH7.1	Describe the types, kinetics, dynamics, adverse drug reactions of drugs used in diabetes mellitus and devise management for an obese and non-obese diabetic patient & also comment on prevention of complications of the diabetes.	Endocrine system
Pharmacology	PH7.2	Describe the types, kinetics, dynamics, therapeutic uses, adverse drug reactions of drugs used in osteoporosis and devise management plan for a female and male patient with osteoporosis.	Endocrine system
Pharmacology	PH7.3	Describe the types, kinetics, dynamics, adverse drug reactions of drugs used in thyroid Disorders and devise a management plan for a case with thyroid Disorder.	Endocrine system
Pharmacology	PH7.4	Describe the types, mechanisms of action, adverse effects, indications and contraindications of the drugs which modify the release of Anterior Pituitary Hormones	Endocrine system
Pharmacology	PH7.5	Explain the types, kinetics, dynamics, adverse effects, indications and contraindications of corticosteroids and communicate to patient the appropriate use of corticosteroids	Endocrine system
Pharmacology	PH7.6	Describe the types, kinetics, dynamics, adverse effects, indications and contraindications of Androgens and drugs used of Erectile Dysfunction	Endocrine system

Pharmacology	PH7.7	Explain the types, kinetics, dynamics, adverse effects, indications and contraindications of drugs which modify Female Reproductive Functions including contraceptives. Explain the important instruction for use of female and male contraceptives	Endocrine system
Pharmacology	PH7.8	Explain the types, kinetics, dynamics, adverse effects, indications and contraindications of uterine relaxants and stimulants.	Endocrine system
Pharmacology	PH7.9	Describe drugs used for treatment of Infertility	Endocrine system
Pharmacology	PH8.1	Discuss general principles of chemotherapy with emphasis on antimicrobial resistance.	Chemotherapy
Pharmacology	PH8.2	Discuss rational use of antimicrobials and describe antibiotic stewardship program of your institute	Chemotherapy
Pharmacology	PH8.3	Explain the kinetics, dynamics, adverse effects, indications of the following antibacterial drugs: Sulphonamides Quinolones, Beta- lactams, Macrolides, Tetracyclines, Aminoglycosides, and newer antibacterial drugs	Chemotherapy
Pharmacology	PH8.4	Devise a pharmacotherapeutic plan for UTI and STDs and explain to patient the instructions and adherence to treatment.	Chemotherapy
Pharmacology	PH8.5	Explain the types, kinetics, dynamics, therapeutic uses and adverse effects of drugs used in tuberculosis. Devise management plan for tuberculosis treatment in various categories.	Chemotherapy
Pharmacology			
Pharmacology	PH8.6	Discuss the types, Kinetics, dynamics, adverse effects for drugs used for Leprosy and outline management of Lepra reactions	Chemotherapy
Pharmacology	PH8.7	Discuss the types, Kinetics, dynamics, adverse effects of drugs used for following Protozoal / Vector borne diseases: 1. Amoebiasis 2. Kala-azar 3. Malaria 4. Filariasis	Chemotherapy
Pharmacology	PH8.8	Explain the types, kinetics, dynamics, adverse effects of drugs used for fungal infections	Chemotherapy

Pharmacology	PH8.9	Discuss the types, kinetics, dynamics, adverse effects of drugs used for Intestinal Helminthiasis	Chemotherapy
Pharmacology	PH8.10	Discuss the types, kinetics, dynamics, adverse effects, indications and contraindications of drugs used for viral diseases including HIV	Chemotherapy
Pharmacology	PH8.11	Describe the types, kinetics, dynamics, adverse effects, indications and contraindications of anti-cancer drugs . Devise plan for amelioration of anticancer drug induced toxicity.	Chemotherapy
Pharmacology	PH9.1	Describe the types, kinetics, dynamics, therapeutic uses, adverse drug reactions of immunomodulators	Miscellaneous
Pharmacology	PH9.2	Describe management of common drug poisonings, insecticides, common stings and bites	Miscellaneous
Pharmacology	PH9.3	Describe chelating agents and make a plan for management of heavy metal poisoning	Miscellaneous
Pharmacology	PH9.4	Describe basics of vaccine use and types of vaccines	Miscellaneous
Pharmacology	PH9.5	Describe types, precautions and uses of antiseptics and disinfectants	Miscellaneous
Pharmacology	PH9.6	Describe drugs used in various skin disorders like acne vulgaris, scabies , pediculosis, psoriasis including sunscreens	Miscellaneous
Pharmacology	PH9.7	Describe drugs used in glaucoma and other ocular disorders including topical (ocular) drug delivery systems	Miscellaneous
Pharmacology	PH10.1	Compare and contrast different sources of drug information and update on latest information on drugs	Applied Pharmacology
Pharmacology	PH10.2	Perform a critical evaluation of the drug promotional literature and Interpret the package insert information contained in the drug package	Applied Pharmacology
Pharmacology	PH10.3	To prepare and explain a list of P-drugs for a given case/condition	Applied Pharmacology
Pharmacology	PH10.4	Describe parts of a correct, rational and legible prescription and write rational prescriptions for the provided condition. (examples of conditions to be used are given with other relevant competencies)	Applied Pharmacology

Pharmacology	PH10.5	Identify and apply the legal and ethical regulation of prescribing drugs especially when prescribing for controlled drugs, off-label medicines, and prescribing for self, close family and friends	Applied Pharmacology
Pharmacology	PH10.6	Perform a critical appraisal of a given prescription and suggest ways to improve it	Applied Pharmacology
Pharmacology	PH10.7	Describe Pharmacogenomics and Pharmacoeconomics and manage genomic & economic issues in drug use and find out the price of given medication(s).	Applied Pharmacology
Pharmacology	PH10.8	Describe Essential medicines, Fixed dose combination, Over the counter drugs and explain steps to choose essential medicines.	Applied Pharmacology
Pharmacology	PH10.9	Calculate the dosage of drugs for an individual patient, including children, elderly, pregnant and lactating women and patients with renal or hepatic dysfunction.	Applied Pharmacology
Pharmacology	PH10.10	Identify when therapeutic drug monitoring is considered for a particular patient, determine timing of sampling and calculate revised dose.	Applied Pharmacology
Pharmacology	PH10.11	Identify and apply drug Regulations principles, acts and legal aspects related of drug discovery and clinical use	Applied Pharmacology
Pharmacology	PH10.12	Describe overview of drug development including phases of clinical trials and Good Clinical Practice & reflect on the role of research in developing new drugs	Applied Pharmacology
Pharmacology	PH10.13	Demonstrate how to optimize interaction with pharmaceutical representative/media to get/disseminate authentic information on drugs	Applied Pharmacology
Pharmacology	PH10.14	Communicate with the patient regarding optimal use of a drug therapy using empathy and professionalism e.g. Oral contraceptives, anti TB drugs etc.	Applied Pharmacology
Pharmacology			
Pharmacology	PH10.15	Describe methods to improve adherence to treatment and motivate patients with chronic diseases to adhere to the prescribed pharmacotherapy	Applied Pharmacology

Pharmacology	PH10.16	Demonstrate an understanding of the caution in prescribing drugs likely to produce dependence and recommend the line of management	Applied Pharmacology
Pharmacology	PH10.17	Demonstrate ability to educate public & patients about various aspects of drug use including drug dependence and OTC drugs	Applied Pharmacology
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Gen Med			
Gen Med	GM1.1	Describe and discuss the epidemiology, genetic basis ,pathogenesis clinical evolution and course of common causes of heart disease including: rheumatic/ valvular, ischemic, hypertrophic inflammatory	Heart failure
Gen Med			
Gen Med	GM1.2	Describe and discuss the aetiology, microbiology, pathogenesis Clinical evolution, criteria, recognition and management of rheumatic fever, and rheumatic valvular heart disease, penicillin prophylaxis and its complications including infective endocarditis	Heart failure
Gen Med	GM1.3	Define and Stage heart failure	Heart failure
Gen Med	GM1.4	Describe, discuss, and differentiate the processes involved in Right Vs Left heart failure, systolic vs diastolic failure	Heart failure
Gen Med	GM1.5	Describe and discuss the compensatory mechanisms involved in heart failure including cardiac remodelling and neurohormonal adaptations	Heart failure
Gen Med	GM1.6	Enumerate, describe and discuss the factors that exacerbate heart failure including ischemia, arrhythmias, anaemia, thyrotoxicosis, dietary factors drugs etc.	Heart failure
Gen Med	GM1.7	Describe and discuss the pathogenesis and development of common arrhythmias involved in heart failure particularly atrial fibrillation	Heart failure
Gen Med			
Gen Med	GM1.8	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

Gen Med	GM1.9	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 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
Gen Med	GM1.10	Demonstrate peripheral pulse, volume, character, quality and variation in various causes of heart failure	Heart failure
Gen Med	GM1.11	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
Gen Med	GM1.12	Demonstrate and measure jugular venous distension	Heart failure
Gen Med	GM1.13	Identify and describe the Timing, pitch quality conduction and significance of precordial murmurs, their variations, use of dynamic auscultation	Heart failure
Gen Med	GM1.14	Generate a differential diagnosis based on the clinical presentation of various heart diseases and prioritise it based on the most likely diagnosis	Heart failure
Gen Med	GM1.15	Order and interpret diagnostic testing based on the clinical diagnosis including 12 lead ECG, Chest radiograph, blood cultures	Heart failure
Gen Med	GM1.16	Perform and interpret a 12 lead ECG	Heart failure
Gen Med	GM1.17	Enumerate the indications for and describe the findings of heart failure with the following investigations including: 2D echocardiography, brain natriuretic peptide, exercise testing, nuclear medicine testing and coronary angiogram	Heart failure

Gen Med	GM1.18	Discuss the severity of valvular heart disease based on the clinical and laboratory and Imaging features and describe the level of intervention required including surgery	Heart failure
Gen Med	GM1.19	Describe and discuss and identify the clinical features of acute and sub-acute endocarditis, echocardiographic findings, blood culture and sensitivity and therapy	Heart failure
Gen Med	GM1.20	Assist and demonstrate the proper technique in collecting specimen for blood culture	Heart failure
Gen Med	GM1.21	Describe, prescribe and communicate non pharmacologic management of heart failure including sodium restriction, physical activity and limitations	Heart failure
Gen Med	GM1.22	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
Gen Med	GM1.23	Enumerate the indications for valvuloplasty, valvotomy, coronary revascularization and cardiac transplantation	Heart failure
Gen Med	GM1.24	Develop document and present a management plan for patients with heart failure based on type of failure, underlying aetiology	Heart failure
Gen Med			
Gen Med	GM1.25	Enumerate the causes of adult presentations of congenital heart disease and describe the distinguishing features between cyanotic and acyanotic heart disease	Heart failure
Gen Med	GM1.26	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
Gen Med	GM1.27	Administer an intramuscular injection with an appropriate communication to the patient	Heart failure
Gen Med	GM2.1	Discuss and describe the epidemiology, antecedents and risk factors for atherosclerosis and ischemic heart disease	Acute Myocardial Infarction / IHD

Gen Med	GM2.2	Discuss the aetiology of risk factors both modifiable and non modifiable of atherosclerosis and IHD	Acute Myocardial Infarction / IHD
Gen Med	GM2.3	Discuss and describe the lipid cycle and the role of dyslipidemia in the pathogenesis of atherosclerosis	Acute Myocardial Infarction / IHD
Gen Med	GM2.4	Discuss and describe the pathogenesis natural history, evolution and complications of atherosclerosis and IHD	Acute Myocardial Infarction / IHD
Gen Med	GM2.5	Define the various acute coronary syndromes and describe their evolution, natural history and outcomes	Acute Myocardial Infarction / IHD
Gen Med	GM2.6	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
Gen Med	GM2.7	Perform, demonstrate and document a physical examination including a vascular and cardiac examination that is appropriate for the clinical presentation	Acute Myocardial Infarction / IHD
Gen Med	GM2.8	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
Gen Med	GM2.9	Distinguish and differentiate between stable and unstable angina and AMI based on the clinical presentation	Acute Myocardial Infarction / IHD
Gen Med	GM2.10	Order, perform and interpret an ECG	Acute Myocardial Infarction / IHD
Gen Med	GM2.11	Order and interpret a Chest X-ray and markers of acute myocardial Infarction	Acute Myocardial Infarction / IHD
Gen Med	GM2.12	Choose and interpret a lipid profile and identify the desirable lipid profile in the clinical context	Acute Myocardial Infarction / IHD
Gen Med	GM2.13	Discuss and enumerate the indications for and findings on echocardiogram, stress testing and coronary angiogram	Acute Myocardial Infarction / IHD
Gen Med	GM2.14	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

Gen Med	GM2.15	Discuss and describe the medications used in patients with an acute coronary syndrome based on the clinical presentation	Acute Myocardial Infarction / IHD
Gen Med	GM2.16	Discuss and describe the indications for acute thrombolysis, PTCA and CABG	Acute Myocardial Infarction / IHD
Gen Med	GM2.17	Discuss and describe the indications and methods of cardiac Rehabilitation	Acute Myocardial Infarction / IHD
Gen Med	GM2.18	Discuss and describe the indications, formulations, doses, side effects and monitoring for drugs used in the management of Dyslipidemia	Acute Myocardial Infarction / IHD
Gen Med	GM2.19	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
Gen Med	GM2.20	Discuss and describe the assessment and relief of pain in acute coronary syndromes	Acute Myocardial Infarction / IHD
Gen Med	GM2.21	Observe and participate in a controlled environment of ACLS Program	Acute Myocardial Infarction / IHD
Gen Med	GM2.22	Perform and demonstrate in a mannequin BLS	Acute Myocardial Infarction / IHD
Gen Med	GM2.23	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
Gen Med	GM2.24	Counsel and communicate to patients with empathy lifestyle changes in atherosclerosis / post coronary syndromes	Acute Myocardial Infarction / IHD
Gen Med	GM3.1	Define, discuss, describe and distinguish community acquired pneumonia nosocomial pneumonia and aspiration pneumonia.	Pneumonia
Gen Med	GM3.2	Discuss and describe the aetiologies of various kinds of pneumonia and their microbiology depending on the setting and Immune status of the host	Pneumonia
Gen Med	GM3.3	Discuss and describe the pathogenesis, presentation, natural history and complications of pneumonia	Pneumonia
Gen Med	GM3.4	Elicit document and present an appropriate history including the evolution, risk factors including Immune status and occupational Risk	Pneumonia

Gen Med	GM3.5	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
Gen Med	GM3.6	Generate document and present a differential diagnosis based on the clinical features, and prioritize the diagnosis based on the Presentation	Pneumonia
Gen Med	GM3.7	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
Gen Med	GM3.8	Demonstrate on a mannequin, correct technique of collection of blood sample for an arterial blood gas examination	Pneumonia
Gen Med	GM3.9	Interpret results of arterial blood gas examination report	Pneumonia
Gen Med	GM3.10	Demonstrate on a mannequin, correct technique of pleural fluid Aspiration	Pneumonia
Gen Med	GM3.11	Outline the correct tests that require to be performed and interpret results of pleural fluid aspiration report	Pneumonia
Gen Med	GM3.12	Demonstrate on a mannequin, the correct technique of collection of blood for culture	Pneumonia
Gen Med	GM3.13	Interpret results of blood culture report.	Pneumonia
Gen Med	GM3.14	Describe and enumerate the indications for further testing including HRCT, Viral cultures, PCR and specialized testing	Pneumonia
Gen Med	GM3.15	Select, describe and prescribe based on the most likely aetiology, an appropriate empirical antimicrobial based on the pharmacology and antimicrobial spectrum.	Pneumonia
Gen Med	GM3.16	Select, describe and prescribe based on culture and sensitivity appropriate empirical Antimicrobial based on the pharmacology and antimicrobial spectrum.	Pneumonia
Gen Med			
Gen Med	GM3.17	Describe and enumerate the indications for hospitalization in patients with pneumonia	Pneumonia

Gen Med	GM3.18	Describe and enumerate the indications for isolation and barrier nursing in patients with pneumonia	Pneumonia
Gen Med	GM3.19	Describe and discuss the supportive therapy in patients with pneumonia including oxygen use and indications for ventilation	Pneumonia
Gen Med	GM3.20	Communicate and counsel patient on family on the diagnosis and therapy of pneumonia	Pneumonia
Gen Med	GM3.21	Discuss, describe, enumerate the indications for pneumococcal and influenza vaccines	Pneumonia
Gen Med	GM3.22	Communicate and counsel patient for pneumococcal and influenza Vaccines	Pneumonia
Gen Med	GM4.1	Describe and discuss the febrile response and the influence of host Immune status, risk factors, special populations (elderly, Immunosuppressed, malignancy, neutropenia HIV and travel) and comorbidities on the febrile response	Fever and febrile syndromes
Gen Med			
Gen Med	GM4.2	Describe and discuss the patho-physiology and differences between fever and hyperthermia.	Fever and febrile syndromes
Gen Med	GM4.3	Enumerate various common causes of fever and hyperthermia in various regions in India.	Fever and febrile syndromes
Gen Med	GM4.4	Describe and discuss the pathophysiology and manifestations of inflammatory causes of fever	Fever and febrile syndromes
Gen Med	GM4.5	Describe and discuss the pathophysiology and manifestations of malignant causes of fever including hematologic and lymph node Malignancies	Fever and febrile syndromes
Gen Med	GM4.6	Discuss the approach to the patient with Acute Febrile Illness.	Fever and febrile syndromes
Gen Med			
Gen Med	GM4.7	Discuss and describe the pathophysiology and manifestations of the sepsis syndrome	Fever and febrile syndromes

Gen Med	GM4.8	Describe and discuss the pathophysiology, clinical features and management of heat related illness (heat cramps, heat exhaustion and heat stroke).	Fever and febrile syndromes
Gen Med	GM4.9	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
Gen Med	GM4.10	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
Gen Med	GM4.11	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)	Fever and febrile syndromes
Gen Med	GM4.12	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes	Fever and febrile syndromes
Gen Med	GM4.13	Order and interpret diagnostic tests based on the differential diagnosis including: CBC with differential, peripheral smear, urinary analysis with sediment, Chest X ray and other Imaging, blood and urine cultures, sputum gram stain and cultures, sputum AFB and cultures, CSF analysis, pleural and body fluid analysis, stool routine and culture, serology, FNAC, biopsy, bone marrow examination and QBC.	Fever and febrile syndromes
Gen Med			
Gen Med			
Gen Med			
Gen Med	GM4.14	Enumerate in a patient with prolonged fever, the indications for various tests 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

Gen Med	GM4.15	Observe and assist in the performance of a bone marrow aspiration and biopsy in a simulated environment	Fever and febrile syndromes
Gen Med	GM4.16	Enumerate the indications for use of Imaging in the diagnosis of febrile syndromes	Fever and febrile syndromes
Gen Med			
Gen Med	GM4.17	Interpret a PPD (Mantoux) in a given patient	Fever and febrile syndromes
Gen Med	GM4.18	Develop and present an appropriate diagnostic plan for patient with prolonged fever based on the clinical presentation, most likely diagnosis in a prioritised and cost-effective manner	Fever and febrile syndromes
Gen Med			
Gen Med			
Gen Med	GM4.19	Develop an appropriate empiric treatment plan based on the patient's clinical and Immune status pending definitive diagnosis	Fever and febrile syndromes
Gen Med	GM4.20	Communicate to the patient and family the diagnosis and treatment in a case of prolonged fever	Fever and febrile syndromes
Gen Med			
Gen Med	GM5.1	Describe and discuss the physiologic and biochemical basis of hyperbilirubinemia	Liver disease
Gen Med	GM5.2	Describe and discuss the etiology and pathophysiology of various types of liver diseases.	Liver disease
Gen Med			
Gen Med	GM5.3	Describe and discuss the epidemiology, microbiology, Immunology and clinical evolution of infective (viral) hepatitis	Liver disease
Gen Med	GM5.4	Describe and discuss the pathophysiology and clinical evolution of alcoholic liver disease	Liver disease

Gen Med	GM5.5	Describe and discuss the pathophysiology, clinical evolution and complications of cirrhosis of liver and portal hypertension including ascites, spontaneous bacterial peritonitis, hepato-renal syndrome, hepatic encephalopathy, acute GI bleed and hepatocellular Carcinoma	Liver disease
Gen Med	GM5.6	Enumerate and describe the causes and pathophysiology of drug induced liver injury	Liver disease
Gen Med	GM5.7	Describe and discuss the pathophysiology, clinical evolution and complications Cholelithiasis and cholecystitis	Liver disease
Gen Med	GM5.8	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 in patients with liver disease	Liver disease
Gen Med	GM5.9	Perform a systematic examination that establishes the diagnosis and severity that includes nutritional status, mental status, jaundice, abdominal distension ascites, features of porto-systemic hypertension and hepatic encephalopathy	Liver disease
Gen Med	GM5.10	Generate a differential diagnosis and prioritize based on clinical features that suggest a specific aetiology for the presenting symptom in patient with liver disease	Liver disease
Gen Med	GM5.11	Choose and interpret appropriate diagnostic tests including: CBC, bilirubin, liver function tests, Hepatitis serology and ascitic fluid examination in patient with liver diseases	Liver disease
Gen Med	GM5.12	Enumerate the indications for ultrasound and other Imaging studies including MRCP and ERCP and describe the findings in liver disease	Liver disease
Gen Med	GM5.13	Outline a diagnostic approach to liver disease based on hyperbilirubinemia, liver function changes and hepatitis serology	Liver disease
Gen Med	GM5.14	Assist in the performance and interpret the findings of an ascitic fluid analysis	Liver disease

Gen Med	GM5.15	Describe and discuss the management of hepatitis, cirrhosis, portal hypertension, ascites spontaneous, bacterial peritonitis, acute GI Bleed , hepatic encephalopathy and hepatocellular carcinoma	Liver disease
Gen Med	GM5.16	Enumerate the indications, precautions and counsel patients on vaccination for hepatitis	Liver disease
Gen Med	GM5.17	Enumerate the indications for hepatic transplantation	Liver disease
Gen Med	GM6.1	Describe and discuss the symptoms and signs of acute HIV sero- conversion	HIV
Gen Med	GM6.2	Define and classify HIV AIDS based on the CDC criteria	HIV
Gen Med	GM6.3	Describe and discuss the relationship between CD4 count and the risk of opportunistic infections	HIV
Gen Med	GM6.4	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related opportunistic infections	HIV
Gen Med	GM6.5	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related malignancies	HIV
Gen Med	GM6.6	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related skin and oral lesions	HIV
Gen Med	GM6.7	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
Gen Med	GM6.8	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology for the presenting symptom	HIV
Gen Med	GM6.9	Choose and interpret appropriate diagnostic tests to diagnose and classify the severity of HIV-AIDS including specific tests of HIV, CDC	HIV

Gen Med	GM6.10	Choose and interpret appropriate diagnostic tests to diagnose opportunistic infections including CBC, sputum examination and cultures, blood cultures, stool analysis, CSF analysis, Chest radiographs.	HIV
Gen Med	GM6.11	Enumerate the indications and describe the findings for CT of the chest, brain and MRI Brain in a patient with opportunistic infections	HIV
Gen Med	GM6.12	Enumerate the indications for and interpret the results of: Pulse oximetry, ABG, Chest Radiograph in a patient with opportunistic infections	HIV
Gen Med	GM6.13	Describe and enumerate the indications and side effects of drugs for bacterial, viral and other types of diarrhea in a patient suffering from HIV/AIDS	HIV
Gen Med			
Gen Med			
Gen Med	GM6.14	Discuss and describe the principles of HAART, the classes of of antiretroviral used, adverse reactions and interactions in a patient suffering from HIV/AIDS	HIV
Gen Med	GM6.15	Discuss and describe the pathogenesis of IRIS and its management.	HIV
Gen Med	GM6.16	Discuss and describe the principles and regimens used in post exposure prophylaxis	HIV
Gen Med	GM6.17	Enumerate the indications and discuss prophylactic drugs used to prevent HIV related opportunistic infections	HIV
Gen Med	GM6.18	Counsel patients on prevention of HIV transmission.	HIV
Gen Med	GM6.19	Communicate diagnosis, treatment plan and subsequent follow up plan to patients with HIV/AIDS	HIV
Gen Med	GM6.20	Communicate with patients with HIV/AIDS on the importance of medication adherence	HIV
Gen Med	GM6.21	Demonstrate understanding of ethical and legal issues regarding patient confidentiality and disclosure in patients with HIV/AIDS	HIV
Gen Med	GM6.22	Demonstrate a non- judgmental attitude to patients with HIV/AIDS and to their lifestyles including gender orientation	HIV

Gen Med	GM7.1	Describe the pathophysiology and genetic basis of autoimmune disease	Rheumatologic problems
Gen Med			
Gen Med	GM7.2	Classify cause of joint pain based on the pathophysiology	Rheumatologic problems
Gen Med	GM7.3	Develop a systematic clinical approach to joint pain based on The pathophysiology	Rheumatologic problems
Gen Med	GM7.4	Describe and discriminate acute, subacute and chronic causes Of joint pain	Rheumatologic problems
Gen Med	GM7.5	Discriminate, describe and discuss arthralgia from arthritis, articular from periarticular complaints and Mechanical from inflammatory causes of joint pain	Rheumatologic problems
Gen Med	GM7.6	Describe the common signs and symptoms of Articular and periarticular diseases	Rheumatologic problems
Gen Med			
Gen Med			
Gen Med	GM7.7	Describe the systemic manifestations of rheumatologic disease	Rheumatologic problems
Gen Med	GM7.8	Elicit document and present a medical history that will differentiate the aetiologies of disease	Rheumatologic problems
Gen Med	GM7.9	Perform a systematic examination of all joints, muscle and skin That will establish the diagnosis andseverity of disease	Rheumatologic problems
Gen Med	GM7.10	Generate a differential diagnosis and prioritise based on Clinical features that suggest a specific aetiology	Rheumatologic problems
Gen Med	GM7.11	Describe the appropriate diagnostic work up based on the presumed aetiology and Enumerate the indications for and interpret the results of : CBC, anti-CCP,RA, ANA,DNA andother tests Of autoimmunity	Rheumatologic problems
Gen Med			
Gen Med	GM7.12	Enumerate the indications for arthrocentesis	Rheumatologic problems

Gen Med	GM7.13	Enumerate the indications and interpret plain radiographs of joints	Rheumatologic problems
Gen Med	GM7.14	Communicate diagnosis, treatment plan and subsequent follow Up plan to patients	Rheumatologic problems
Gen Med	GM7.15	Develop an appropriate treatment plan for patients with rheumatologic diseases	Rheumatologic problems
Gen Med			
Gen Med	GM7.16	Select, prescribe and communicate appropriate medications for relief of joint pain and preventive therapy for crystalline arthropathies	Rheumatologic problems
Gen Med	GM7.17	Select, prescribe and communicate treatment option for systemic rheumatologic conditions	Rheumatologic problems
Gen Med	GM7.18	Describe the basis for biologic and disease modifying therapy in rheumatologic diseases	Rheumatologic problems
Gen Med	GM7.19	Communicate and incorporate patient preferences in the choice Of therapy	Rheumatologic problems
Gen Med	GM7.20	Develop and communicate appropriate follow up and monitoring plans for patients with rheumatologic conditions	Rheumatologic problems
Gen Med	GM7.21	Demonstrate an understanding of the impact of Rheumatologic conditions on quality of life, well-being, work and family	Rheumatologic problems
Gen Med	GM7.22	Determine the need fors pecialist consultation	Rheumatologic problems
Gen Med	GM8.1	Describe and discuss the epidemiology, genetic basis aetiology and the prevalence of primary and secondary hypertension	Hypertension
Gen Med			
Gen Med	GM8.2	Describe and discuss the pathophysiology of hypertension	Hypertension
Gen Med	GM8.3	Define and classify hypertension	Hypertension
Gen Med	GM8.4	Describe and discuss the differences between primary and secondary hypertension	Hypertension
Gen Med	GM8.5	Define, describe and discuss and recognise hypertensive urgency and emergency	Hypertension
Gen Med	GM8.6	Describe and discuss the clinical manifestations of the various aetiologies of secondary causes of hypertension	Hypertension
Gen Med	GM8.7	Describe, discuss and identify target organ damage due to Hypertension	Hypertension

Gen Med	GM8.8	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
Gen Med			
Gen Med	GM8.9	Missing from mastersheet	Hypertension
Gen Med	GM8.10	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	Hypertension
Gen Med	GM8.11	Describe the appropriate diagnostic work up based on the presumed aetiology	Hypertension
Gen Med	GM8.12	Enumerate the indications for and interpret the results of : CBC, Urine routine, BUN, Cr, Electrolytes, Uric acid, ECG	Hypertension
Gen Med	GM8.13	Develop an appropriate treatment plan for essential hypertension	Hypertension
Gen Med	GM8.14	Recognise, prioritise and manage hypertensive emergencies	Hypertension
Gen Med	GM8.15	Develop and communicate to the patient lifestyle modification including weight reduction, moderation of alcohol intake, physical activity and sodium intake	Hypertension
Gen Med	GM8.16	Perform and interpret a 12 lead ECG	Hypertension
Gen Med	GM8.17	Counsel a patient and incorporate patient preferences in the management of HTN	Hypertension
Gen Med	GM8.18	Demonstrate understanding of the impact of Hypertension on quality of life, well being, work and family	Hypertension
Gen Med	GM8.19	Determine the need for specialist consultation	Hypertension
Gen Med	GM9.1	Define, describe and classify anemia based on red blood cell sizeandreticulocyte count	Anaemia
Gen Med	GM9.2	Describe and discuss the morphological characteristics, aetiologyandprevalence ofeachofthe causes ofanemia	Anaemia

Gen Med	GM9.3	Elicit document and present a medical history that includes symptoms, risk factors including GI bleeding, prior history, medications, menstrual history, andfamilyhistory	Anaemia
Gen Med	GM9.4	Perform a systematic examination that includes : generalexamination for pallor, oral examination, DOAP of Hyperdynamic circulation, lymphnode and splenic examination	Anaemia
Gen Med	GM9.5	Generate a differential diagnosis and prioritise based on Clinical features that suggest a specific aetiology	Anaemia
Gen Med	GM9.6	Describe the appropriate diagnostic work up based on The presumed aetiology	Anaemia
Gen Med	GM9.7	Describe and discuss the meaning and utility of components of the hemogram, various tests for iron deficiency, red cell indices, reticulocytecount, ironstudies, peripheral smear, B12 and folate levels	Anaemia
Gen Med			
Gen Med			
Gen Med			
Gen Med	GM9.8	Describe the indications and interpret the results of a bone marrowaspirations and biopsy	Anaemia
Gen Med	GM9.9	Describe, develop a diagnostic plan to determine the aetiology Of anemia	Anaemia
Gen Med	GM9.10	Prescribe replacement therapy with iron, B12, folate	Anaemia
Gen Med	GM9.11	Describe the national programs for anemia prevention	Anaemia
Gen Med	GM9.12	Communicate the diagnosis and treatment appropriately to patients	Anaemia
Gen Med	GM9.13	Incorporate patient preferences in the managemen of anemia	Anaemia
Gen Med	GM9.14	Describe the indications for blood transfusion and the Appropriate use of blood components	Anaemia

Gen Med	GM9.15	Describe the precautions required necessary when performing A blood transfusion	Anaemia
Gen Med			
Gen Med	GM9.16	Communicate and counsel patients with methods to prevent nutritional Anemia	Anaemia
Gen Med	GM9.17	Determine the need fors pecialist consultation	Anaemia
Gen Med	GM10.1	Define, describe, classify, differentiate between the pathophysiologic causes of acute and chronic renal failure	Acute Kidney Injury and Chronic renal failure
Gen Med			
Gen Med	GM10.2	Describe the pathophysiology and causes of pre renal ARF, Renal and post-renal ARF	Acute Kidney Injury and Chronic renal failure
Gen Med	GM10.3	Describe the evolution, natural history and treatment of ARF	Acute Kidney Injury and Chronic renal failure
Gen Med	GM10.4	Describe and discuss the aetiology and staging ofCKD	Acute Kidney Injury and Chronic renal failure
Gen Med			
Gen Med	GM10.5	Describe and discuss the pathophysiology and clinical findings Of uraemia	Acute Kidney Injury and Chronic renal failure
Gen Med	GM10.6	Classify, describe and discuss the significance ofproteinuria in CKD	Acute Kidney Injury and Chronic renal failure
Gen Med	GM10.7	Describe and discuss the pathophysiology of anemia and hyperparathyroidismin CKD	Acute Kidney Injury and Chronic renal failure
Gen Med	GM10.8	Describe and discuss the association between CKD glycemia And hypertension	Acute Kidney Injury and Chronic renal failure
Gen Med			
Gen Med	GM10.9	Elicit document and present a medical history that will differentiatethe aetiologies of disease, distinguish acute and chronic disease, identify predisposing conditions, nephrotoxic drugs and Systemiccauses	Acute Kidney Injury and Chronic renal failure
Gen Med	GM10.10	Perform a systematic examination that establishes the diagnosisand severity including determination of volume status, presence ofedema and heart failure, features of uraemia and Associated systemic disease	Acute Kidney Injury and Chronic renal failure
Gen Med	GM10.11	Generate a differential diagnosis and prioritise based on clinical features that suggest a specificaetiology	Acute Kidney Injury and Chronic renal failure

Gen Med	GM10.12	Describe the appropriate diagnostic work up based on the presumed aetiology	Acute Kidney Injury and Chronic renal failure
Gen Med	GM10.13	Enumerate the indications for and interpret the results of : renal function tests, calcium, phosphorus, PTH, urine electrolytes, osmolality, Anion gap, FENa (Fractional Excretion of Sodium), CrCl (Creatinine Clearance) and renal ultrasound	Acute Kidney Injury and Chronic renal failure
Gen Med			
Gen Med			
Gen Med	GM10.14	Identify theECG findings in hyperkalemia	Acute Kidney Injury and Chronic renal failure
Gen Med	GM10.15	Describe and discuss the indications to performarterial blood gasanalysis: interpret the data	Acute Kidney Injury and Chronic renal failure
Gen Med	GM10.16	Describe and discuss the indications for and insert a Peripheral intravenous catheter	Acute Kidney Injury and Chronic renal failure
Gen Med			
Gen Med	GM10.17	Communicate diagnosis, treatment plan and subsequent follow up plan to patients	Acute Kidney Injury and Chronic renal failure
Gen Med	GM10.18	Counsel patients on a renal diet	Acute Kidney Injury and Chronic renal failure
Gen Med	GM10.19	Identify and describe the priorities in the management of ARFincluding diet, volume management, alteration in doses of drugs, monitoring and indicationsfor dialysis	Acute Kidney Injury and Chronic renal failure
Gen Med	GM10.20	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
Gen Med	GM10.21	Describe and discuss the indications for renal dialysis	Acute Kidney Injury and Chronic renal failure
Gen Med	GM10.22	Describe and discuss the indications for renal replacement therapy	Acute Kidney Injury and Chronic renal failure

Gen Med	GM10.23	Describe discuss and communicate the ethical and legal Issues involved in renal replacement therapy	Acute Kidney Injury and Chronic renal failure
Gen Med	GM10.24	Recognise the Impact of CKD on patient's quality of life, well- being, work and family and Incorporate patient preferences into the care of CKD	Acute Kidney Injury and Chronic renal failure
Gen Med			
Gen Med	GM11.1	Define and classify diabetes	Diabetes Mellitus
Gen Med	GM11.2	Describe and discuss the epidemiology and pathogenesis and risk factors and clinical evolution of type 1 diabetes	Diabetes Mellitus
Gen Med	GM11.3	Describe and discuss the epidemiology and pathogenesis and risk factors economic Impact and clinical evolution of type 2 diabetes	Diabetes Mellitus
Gen Med	GM11.4	Describe and discuss the genetic background and the influence of the environment on diabetes	Diabetes Mellitus
Gen Med	GM11.5	Describe and discuss the pathogenesis and temporal evolution of microvascular and macrovascular complications of diabetes	Diabetes Mellitus
Gen Med	GM11.6	Describe and discuss the pathogenesis and precipitating factors, recognition and management of diabetic emergencies	Diabetes Mellitus
Gen Med	GM11.7	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
Gen Med	GM11.8	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
Gen Med	GM11.9	Describe and recognise the clinical features of patients who present with a diabetic emergency	Diabetes Mellitus
Gen Med	GM11.10	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	Diabetes Mellitus

Gen Med	GM11.11	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
Gen Med	GM11.12	Perform and interpret a capillary blood glucose test	Diabetes Mellitus
Gen Med	GM11.13	Perform and interpret a urinary ketone estimation with a dipstick	Diabetes Mellitus
Gen Med	GM11.14	Recognise the presentation of hypoglycaemia and outline the principles on its therapy	Diabetes Mellitus
Gen Med	GM11.15	Recognise the presentation of diabetic emergencies and outline the principles of therapy	Diabetes Mellitus
Gen Med	GM11.16	Discuss and describe the pharmacologic therapies for diabetes their indications, contraindications, adverse reactions and interactions	Diabetes Mellitus
Gen Med	GM11.17	Outline a therapeutic approach to therapy of T2Diabetes based on presentation, severity and complications in a cost-effective manner	Diabetes Mellitus
Gen Med	GM11.18	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
Gen Med	GM11.19	Demonstrate and counsel patients on the correct technique to administer insulin	Diabetes Mellitus
Gen Med	GM11.20	Demonstrate to and counsel patients correct technique on the of self-monitoring of blood glucoses	Diabetes Mellitus
Gen Med	GM11.21	Recognise the Importance of patient preference while selecting therapy for diabetes	Diabetes Mellitus
Gen Med	GM11.22	Enumerate the causes of hypoglycaemia and describe the counter hormone response and the initial approach and treatment	Diabetes Mellitus

Gen Med	GM11.23	Describe the precipitating causes, pathophysiology, recognition, clinical features, diagnosis, stabilisation and management of diabetic ketoacidosis	Diabetes Mellitus
Gen Med	GM11.24	Describe the precipitating causes, pathophysiology, recognition, clinical features, diagnosis, stabilisation and management of Hyperosmolar non ketotic state	Diabetes Mellitus
Gen Med	GM12.1	Describe the epidemiology, genetic basis and pathogenesis of hypothyroidism and hyperthyroidism including the influence of iodine deficiency and autoimmunity in the pathogenesis of thyroid disease	Thyroid Dysfunction
Gen Med			
Gen Med	GM12.2	Describe and discuss the physiology of the hypothalamopituitary - thyroid axis, principles of thyroid function testing and alterations in physiologic function	Thyroid Dysfunction
Gen Med	GM12.3	Describe and discuss the principles of radio iodine uptake in the diagnosis of thyroid disorders	Thyroid Dysfunction
Gen Med	GM12.4	Elicit document and present an appropriate history that will establish the diagnosis cause of thyroid dysfunction and its severity	Thyroid Dysfunction
Gen Med	GM12.5	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 rhythm abnormalities neck palpation of the thyroid and lymph nodes and cardiovascular findings	Thyroid Dysfunction
Gen Med	GM12.6	Demonstrate the correct technique to palpate the thyroid	Thyroid Dysfunction
Gen Med	GM12.7	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis	Thyroid Dysfunction
Gen Med	GM12.8	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

Gen Med	GM12.9	Identify atrial fibrillation, pericardial effusion and bradycardia on ECG	Thyroid Dysfunction
Gen Med	GM12.10	Interpret thyroid function tests in hypo and hyperthyroidism	Thyroid Dysfunction
Gen Med	GM12.11	Describe and discuss the iodisation programs of the government of India	Thyroid Dysfunction
Gen Med	GM12.12	Describe the pharmacology, indications, adverse reaction, interactions of thyroxine and antithyroid drugs	Thyroid Dysfunction
Gen Med	GM12.13	Write and communicate to the patient appropriately a prescription for thyroxine based on age, sex, and clinical and biochemical status	Thyroid Dysfunction
Gen Med	GM12.14	Describe and discuss the indications of thionamide therapy, radio iodine therapy and surgery in the management of thyrotoxicosis	Thyroid Dysfunction
Gen Med	GM13.1	Describe the clinical epidemiology and inherited & modifiable risk factors for common malignancies in India	Common Malignancies / Oncology
Gen Med	GM13.2	Describe the genetic basis of selected cancers	Common Malignancies / Oncology
Gen Med	GM13.3	Describe the relationship between infection and cancers	Common Malignancies / Oncology
Gen Med	GM13.4	Describe the natural history, presentation, course, complications and cause of death for common cancers	Common Malignancies / Oncology
Gen Med	GM13.5	Describe the common issues encountered in patients at the end of life and principles of management of end-of-life care.	Common Malignancies / Oncology
Gen Med	GM13.6	Describe and distinguish the difference between curative and palliative care in patients with cancer	Common Malignancies / Oncology
Gen Med	GM13.7	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 / Oncology

Gen Med	GM13.8	Perform and demonstrate a physical examination that includes an appropriate general and local examination that leads to the diagnosis, extent spread and complications of cancer	Common Malignancies / Oncology
Gen Med	GM13.9	Demonstrate in a mannequin the correct technique for performing breast exam rectal examination and cervical examination and pap smear	Common Malignancies / Oncology
Gen Med	GM13.10	Generate a differential diagnosis based on the presenting symptoms and clinical features in a cancer patient and identify the most likely diagnosis	Common Malignancies / Oncology
Gen Med	GM13.11	Order and interpret diagnostic testing based on the clinical diagnosis in a cancer patient. Including CBC and stool occult blood and prostate specific antigen	Common Malignancies / Oncology
Gen Med	GM13.12	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 / Oncology
Gen Med	GM13.13	Describe and assess pain and suffering objectively in a patient with cancer	Common Malignancies / Oncology
Gen Med	GM13.14	Describe the indications for surgery, radiation and chemotherapy for common malignancies	Common Malignancies / Oncology
Gen Med	GM13.15	Describe the need, tests involved, their utility in the prevention of common malignancies	Common Malignancies / Oncology
Gen Med	GM13.16	Demonstrate an understanding of needs and preferences of patients when choosing curative and palliative therapy	Common Malignancies / Oncology
Gen Med	GM13.17	Describe and enumerate the indications, use, side effects of narcotics in pain alleviation in patients with cancer	Common Malignancies / Oncology
Gen Med	GM13.18	Describe and discuss the ethical and the medico legal issues involved in end-of-life care	Common Malignancies / Oncology
Gen Med	GM13.19	Describe the therapies used in alleviating suffering in patients at the end of life	Common Malignancies / Oncology
Gen Med	GM14.1	Define and measure obesity as it relates to the Indian population	Obesity

Gen Med	GM14.2	Describe and discuss the aetiology of obesity including modifiable and non-modifiable risk factors and secondary causes	Obesity
Gen Med	GM14.3	Describe and discuss the monogenic forms of obesity	Obesity
Gen Med	GM14.4	Describe and discuss the impact of environmental factors including eating habits, food, work, environment and physical activity on the incidence of obesity	Obesity
Gen Med	GM14.5	Describe and discuss the natural history of obesity and its complications	Obesity
Gen Med	GM14.6	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
Gen Med	GM14.7	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
Gen Med	GM14.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis	Obesity
Gen Med	GM14.9	Order and interpret diagnostic tests based on the clinical diagnosis including blood glucose, lipids, thyroid function tests etc.	Obesity
Gen Med	GM14.10	Describe the indications and interpret the results of tests for secondary causes of obesity	Obesity
Gen Med	GM14.11	Communicate and counsel patient on behavioural, dietary and lifestyle modifications	Obesity
Gen Med	GM14.12	Demonstrate an understanding of patient's inability to adhere to lifestyle instructions and counsel them in a non - judgemental way	Obesity
Gen Med	GM14.13	Describe and enumerate the indications, pharmacology, and side effects of pharmacotherapy for obesity and describe and enumerate indications and side effects bariatric surgery	Obesity
Gen Med			

Gen Med	GM14.14	Describe and enumerate and educate patients, health care workers and the public on measures to prevent obesity and promote a healthy lifestyle	Obesity
Gen Med	GM15.1	Enumerate, describe and discuss the aetiology of upper and lower GI bleeding	GI Bleeding
Gen Med	GM15.2	Enumerate, describe and discuss the evaluation and steps involved in stabilizing a patient who presents with acute volume loss and GI bleed	GI Bleeding
Gen Med	GM15.3	Describe and discuss the patho-physiological effects of acute blood and volume loss	GI Bleeding
Gen Med	GM15.4	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
Gen Med	GM15.5	Perform, demonstrate and document a physical examination based on the history that includes general examination, volume assessment and appropriate abdominal examination	GI Bleeding
Gen Med	GM15.6	Distinguish between upper and lower gastrointestinal bleeding based on the clinical features	GI Bleeding
Gen Med	GM15.7	Demonstrate the correct technique to perform an anal and rectal examination in a mannequin or equivalent	GI Bleeding
Gen Med	GM15.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritize based on the most likely diagnosis	GI Bleeding
Gen Med	GM15.9	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
Gen Med	GM15.10	Enumerate the indications for endoscopy, colonoscopy and other Imagingcompetencies in the investigation of Upper GI bleeding	GI Bleeding
Gen Med	GM15.11	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

Gen Med	GM15.12	Enumerate the indications for whole blood, component and platelet transfusion and describe the clinical features and management of a mismatched transfusion	GI Bleeding
Gen Med	GM15.13	Observe cross matching and blood / blood component transfusion	GI Bleeding
Gen Med	GM15.14	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy of vasopressors used in the treatment of Upper GI bleed	GI Bleeding
Gen Med	GM15.15	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy of acid peptic disease including Helicobacter pylori	GI Bleeding
Gen Med	GM15.16	Enumerate the indications for endoscopic interventions and Surgery in patient with GI Bleeding	GI Bleeding
Gen Med	GM15.17	Determine appropriate level of specialist consultation as per clinical, hemodynamic status of the patient with GI bleed	GI Bleeding
Gen Med	GM15.18	Counsel the family and patient with GI Bleeding on the diagnosis and therapeutic options in an empathetic non-judgmental manner	GI Bleeding
Gen Med	GM16.1	Describe and discuss the aetiology of acute and chronic diarrhea including infectious and non- infectious causes	Diarrheal Disorders
Gen Med	GM16.2	Describe and discuss the acute systemic consequences of diarrhea including its impact on fluid balance	Diarrheal Disorders
Gen Med	GM16.3	Describe and discuss the chronic effects of diarrhea including malabsorption	Diarrheal Disorders
Gen Med	GM16.4	Elicit and document and present an appropriate history that includes the natural history, dietary history, travel, sexual history and other concomitant illnesses in a patient with Diarrhea	Diarrheal Disorders
Gen Med	GM16.5	Perform, document and demonstrate a physical examination based on the history that includes general examination, including an appropriate abdominal examination	Diarrheal Disorders
Gen Med	GM16.6	Distinguish between diarrhea and dysentery based on clinical features	Diarrheal Disorders

Gen Med	GM16.7	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritize based on the most likely diagnosis	Diarrheal Disorders
Gen Med	GM16.8	Choose and interpret diagnostic tests based on the clinical diagnosis including complete blood count, and stool examination in a patient with acute/chronic diarrhea	Diarrheal Disorders
Gen Med	GM16.9	Identify common parasitic causes of diarrhea under the microscope in a stool specimen	Diarrheal Disorders
Gen Med	GM16.10	Identify vibrio cholera in a hanging drop specimen	Diarrheal Disorders
Gen Med	GM16.11	Enumerate the indications for stool cultures and blood cultures in patients with acute diarrhea	Diarrheal Disorders
Gen Med	GM16.12	Enumerate and discuss the indications for further investigations including antibodies, colonoscopy, diagnostic Imaging and biopsy in the diagnosis of chronic diarrhea	Diarrheal Disorders
Gen Med	GM16.13	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for parasitic causes of diarrhea	Diarrheal Disorders
Gen Med	GM16.14	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for bacterial and viral diarrhea	Diarrheal Disorders
Gen Med	GM16.15	Distinguish based on the clinical presentation Crohn's disease from Ulcerative Colitis	Diarrheal Disorders
Gen Med	GM16.16	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy including Immunotherapy in a patient with chronic diarrhea	Diarrheal Disorders
Gen Med	GM16.17	Describe and enumerate the indications for surgery in inflammatory bowel disease	Diarrheal Disorders
Gen Med	GM17.1	Define and classify headache and describe the presenting features,precipitating factors, aggravating and relieving factors of various kinds of headache	Headache

Gen Med	GM17.2	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
Gen Med	GM17.3	Classify migraine and describe the distinguishing features between classical and non-classical forms of migraine	Headache
Gen Med	GM17.4	Demonstrate a detailed neurologic examination in a patient of headache and raised intracranial tension including signs of meningitis	Headache
Gen Med	GM17.5	Generate, document and present a differential diagnosis based on clinical features in a patient with headache.	Headache
Gen Med	GM17.6	Choose and interpret diagnostic testing including Imaging based on clinical diagnosis in a patient with headache	Headache
Gen Med	GM17.7	Enumerate the indication of lumbar puncture and describe the findings in CSF in different types of meningitis.	Headache
Gen Med	GM17.8	Demonstrate in a mannequin or equivalent the correct technique for performing a lumbar puncture	Headache
Gen Med	GM17.9	Interpret the CSF findings with various parameters in a given CSF fluid analysis report	Headache
Gen Med	GM17.10	Enumerate the indications for emergency care admission and describe Immediate supportive care in patients with headache	Headache
Gen Med	GM17.11	Describe the indications, pharmacology, dose, side effects of abortive therapy in migraine	Headache
Gen Med	GM17.12	Describe the indications, pharmacology, dose, side effects of prophylactic therapy in migraine	Headache
Gen Med	GM17.13	Describe the pharmacology, dose, adverse reactions and regimens of drugs used in the treatment of bacterial, tubercular and viral meningitis	Headache
Gen Med	GM17.14	Counsel patients with migraine and tension headache on lifestyle changes and need for prophylactic therapy	Headache
Gen Med	GM18.1	Describe the functional and the vascular anatomy of the brain	Cerebrovascular Accident

Gen Med	GM18.2	Classify cerebrovascular accidents and describe the aetiology, predisposing genetic and acquired risk factors and pathogenesis of haemorrhagic and non-haemorrhagic stroke	Cerebrovascular Accident
Gen Med	GM18.3	Elicit and document and present an appropriate history in a cerebrovascular patient including onset, progression, precipitating and aggravating relieving factors, associated symptoms that help identify the cause of the cerebrovascular accidents	Cerebrovascular Accident
Gen Med			
Gen Med	GM18.4	Perform, demonstrate & document physical examination that includes general and a detailed neurologic examination as appropriate, based on the history in a stroke patient	Cerebrovascular Accident
Gen Med	GM18.5	Distinguish the lesion based on upper verses lower motor neuron, side, site and most probable nature of the lesion in a given patient with neurological symptoms/signs	Cerebrovascular Accident
Gen Med	GM18.6	Elicit, document and present clinical examination of a stroke patient with speech disorder. Enumerate and describe the points for distinguishing the various disorders of speech based on site of lesion.	Cerebrovascular Accident
Gen Med	GM18.7	Describe and distinguish, based on the clinical presentation, the types of bladder dysfunction seen in neurological diseases	Cerebrovascular Accident
Gen Med	GM18.8	Choose and interpret the appropriate Imaging tests that will identify the anatomical site, type and etiology of the lesion in stroke patient	Cerebrovascular Accident
Gen Med	GM18.9	Choose and interpret the appropriate diagnostic testing in young patients with a cerebrovascular accident (CVA)	Cerebrovascular Accident
Gen Med	GM18.10	Describe the initial supportive management of a patient presenting with a cerebrovascular accident (CVA)	Cerebrovascular Accident

Gen Med	GM18.11	Describe management of non-haemorrhagic stroke including use of thrombolytic agents.	Cerebrovascular Accident
Gen Med	GM18.12	Enumerate the indications and contraindications of antiplatelet agents in non-haemorrhagic stroke. Describe the role of antiplatelet agents in stroke patients.	Cerebrovascular Accident
Gen Med	GM18.13	Describe the management of a patient with haemorrhagic stroke.	Cerebrovascular Accident
Gen Med	GM18.14	Enumerate the indications for surgery in a haemorrhagic stroke	Cerebrovascular Accident
Gen Med	GM18.15	Enumerate and describe the indications and modalities of multidisciplinary rehabilitation of patients with a CVA	Cerebrovascular Accident
Gen Med	GM18.16	Counsel regarding diagnosis, therapy, prognosis and outcome to patient with stroke and his/her family members in an empathetic manner	Cerebrovascular Accident
Gen Med	GM19.1	Describe the functional neuro-anatomy of the locomotor system of the brain	Movement Disorders
Gen Med	GM19.2	Classify movement disorders of the brain based on distribution, rhythm, repetition, exacerbating and relieving factor	Movement Disorders
Gen Med	GM19.3	Elicit and document and present an appropriate history including onset, progression precipitating, aggravating and relieving factors, associated symptoms that help identify the cause of the movement disorder	Movement Disorders
Gen Med	GM19.4	Perform, demonstrate and document a physical examination that includes a general examination and a detailed neurologic examination using standard movement rating scales	Movement Disorders
Gen Med	GM19.5	Generate, document and present a differential diagnosis based on the history and physical examination in a patient with movement disorder	Movement Disorders
Gen Med	GM19.6	Document and describe clinical diagnosis regarding the anatomical location, nature and cause of the lesion based on the clinical presentation and physical examination in a patient with movement disorder	Movement Disorders
Gen Med	GM19.7	Choose and interpret diagnostic Imaging tests in the diagnosis of movement disorder	Movement Disorders

Gen Med	GM19.8	Discuss and describe the pharmacology, their dose, side effects and interactions of the drugs used in the management of Parkinson's syndrome	Movement Disorders
Gen Med	GM19.9	Enumerate the indications for use of surgery and botulinum toxin in the treatment of movement disorders	Movement Disorders
Gen Med	GM20.1	Define and differentiate between seizures, convulsions and epilepsy. Enumerate the etiological classification of epilepsy.	Seizure Disorders
Gen Med	GM20.2	Discuss the pathophysiology, clinical evaluation and diagnosis of epilepsy including description of how to recognize different types of epilepsy. Enumerate and discuss the diagnostic tests in epilepsy.	Seizure Disorders
Gen Med	GM20.3	Discuss the management of epilepsy including various antiepileptic medications, their usage and drug interactions.	Seizure Disorders
Gen Med	GM20.4	Counsel the patient and relatives regarding the safety precautions to be taken during and after an episode of seizure. Demonstrate patient education on lifestyle modifications including sleep patterns, stress management, alcohol or drug avoidance.	Seizure Disorders
Gen Med	GM20.5	Discuss acute management of seizure episode	Seizure Disorders
Gen Med	GM21.1	Enumerate the local poisonous snakes and describe the distinguishing marks of each	Envenomation
Gen Med	GM21.2	Describe and 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
Gen Med	GM21.3	Describe the initial approach to the stabilisation of the patient who presents with snake bite	Envenomation
Gen Med	GM21.4	Elicit and document and present an appropriate history, the circumstances, time, kind of snake, evolution of symptoms in a patient with snake bite	Envenomation
Gen Med	GM21.5	Perform a systematic examination, document and present a physical examination that includes general examination, local examination, appropriate cardiac and neurologic examination in a patient with snake bite	Envenomation

Gen Med	GM21.6	Choose and interpret the appropriate diagnostic tests in patients with snake bite	Envenomation
Gen Med	GM21.7	Enumerate the indications and describe the pharmacology, dose, adverse reactions, hypersensitivity reactions of anti-snake venom	Envenomation
Gen Med	GM21.8	Describe the diagnosis, initial approach, stabilisation and therapy of scorpion envenomation	Envenomation
Gen Med	GM21.9	Describe the diagnosis, initial approach, stabilisation and therapy of bee sting and other envenomation	Envenomation
Gen Med	GM22.1	Describe the initial approach to the stabilisation of the patient who presents with poisoning	Poisoning
Gen Med	GM22.2	Enumerate the common plant poisons seen in your area and describe their toxicology, clinical features, prognosis and specific approach to detoxification	Poisoning
Gen Med	GM22.3	Enumerate the common corrosives used in your area and describe their toxicology, clinical features, prognosis and approach to therapy	Poisoning
Gen Med	GM22.4	Enumerate the commonly observed drug overdose in your area and describe their toxicology, clinical features, prognosis and approach to therapy	Poisoning
Gen Med	GM22.5	Identify and describe a pathophysiologic pattern or toxic syndrome (toxidrome) based on the observed findings	Poisoning
Gen Med	GM22.6	Describe and discuss the toxicology, clinical features, complications, prognosis and specific approach to management of common insecticide poisoning (Organophosphate and carbamate poisoning).	Poisoning
Gen Med	GM22.7	Describe and discuss the clinical features, prognosis and management of aluminium phosphide and zinc phosphide poisoning.	Poisoning
Gen Med	GM22.8	Describe and discuss the clinical features, prognosis and management of Methanol and Ethylene glycol poisoning	Poisoning
Gen Med	GM22.9	Observe and describe the functions and role of a poison centre in suspected poisoning	Poisoning
Gen Med	GM22.10	Describe the medico legal aspects of suspected suicidal or homicidal poisoning	Poisoning

Gen Med	GM22.11	Demonstrate the correct procedure to write a medico legal report on a suspected poisoning	Poisoning
Gen Med	GM22.12	Counsel family members of a patient with suspected poisoning about the clinical and medico legal aspects with empathy	Poisoning
Gen Med	GM22.13	Enumerate the indications for psychiatric consultation and describe the precautions to be taken in a patient with suspected suicidal ideation / gesture	Poisoning
Gen Med	GM23.1	Enumerate the causes of hypercalcemia and distinguish the features of PTH vs non PTH mediated hypercalcemia	Mineral, Fluid Electrolyte and Acid base Disorder
Gen Med	GM23.2	Describe the aetiology, clinical manifestations, diagnosis and clinical approach to primary hyperparathyroidism	Mineral, Fluid Electrolyte and Acid base Disorder
Gen Med	GM23.3	Describe the approach to the management of hypercalcemia	Mineral, Fluid Electrolyte and Acid base Disorder
Gen Med			
Gen Med	GM23.4	Enumerate the causes and describe the clinical features and the correct approach to the diagnosis and management for a patient with hyponatremia	Mineral, Fluid Electrolyte and Acid base Disorder
Gen Med	GM23.5	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient t with hyponatremia	Mineral, Fluid Electrolyte and Acid base Disorder
Gen Med	GM23.6	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
Gen Med	GM23.7	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
Gen Med	GM23.8	Enumerate the causes and describe the clinical and laboratory features of metabolic acidosis	Mineral, Fluid Electrolyte and Acid base Disorder
Gen Med	GM23.9	Enumerate the causes and describe the clinical and laboratory features of metabolic alkalosis	Mineral, Fluid Electrolyte and Acid base Disorder

Gen Med	GM23.10	Enumerate the causes and describe the clinical and laboratory features of respiratory acidosis	Mineral, Fluid Electrolyte and Acid base Disorder
Gen Med	GM23.11	Enumerate the causes and describe the clinical and laboratory features of respiratory alkalosis	Mineral, Fluid Electrolyte and Acid base Disorder
Gen Med	GM23.12	Identify the underlying acid-based disorder based on an ABG report and interpret it in the context of clinical situation	Mineral, Fluid Electrolyte and Acid base Disorder
Gen Med	GM24.1	Discuss and describe the methods of nutritional assessment in an adult and calculation of caloric requirements during illnesses	Nutritional and Vitamin Deficiencies
Gen Med	GM24.2	Discuss and describe the causes and consequences of proteincaloric malnutrition in the hospital	Nutritional and Vitamin Deficiencies
Gen Med	GM24.3	Discuss and describe the aetiology, causes, clinical manifestations, complications, diagnosis and management of common vitamindeficiencies	Nutritional and Vitamin Deficiencies
Gen Med	GM24.4	Enumerate the indications for enteral and parenteral nutrition incriticallyill patients	Nutritional and Vitamin Deficiencies
Gen Med	GM24.5	Counsel and communicate to patients in a simulated environment on an appropriate balanced diet	Nutritional and Vitamin Deficiencies
Gen Med	GM25.1	Describe and discuss the epidemiology, pathogenesis, clinical evolution, presentation and course of common diseases in the elderly	Geriatrics
Gen Med	GM25.2	Describe the multidimensional geriatric assessments that includes medical, psycho-social and functional components	Geriatrics
Gen Med	GM25.3	Describe and discuss the etiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of acute confusional states	Geriatrics
Gen Med	GM25.4	Describe and discuss the etiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of vascular events in the elderly	Geriatrics
Gen Med	GM25.5	Describe and discuss the etiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of depression in the elderly	Geriatrics

Gen Med	GM25.6	Describe the etiopathogenesis and clinical presentation of dementia in the elderly. Describe the acute care, stabilization, management and rehabilitation of dementia in elderly	Geriatrics
Gen Med	GM25.7	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of personality changes in the Elderly	Geriatrics
Gen Med	GM25.8	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of osteoporosis in the elderly	Geriatrics
Gen Med	GM25.9	Describe and discuss the aetiopathogenesis clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of CVA in the elderly	Geriatrics
Gen Med	GM25.10	Describe and discuss the etiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of COPD in the elderly	Geriatrics
Gen Med	GM25.11	Describe and discuss the functional changes, acute care, stabilization, management and rehabilitation of the elderly undergoing surgery	Geriatrics
Gen Med	GM25.12	Describe and discuss the etiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of degenerative joint disease	Geriatrics
Gen Med	GM25.13	Describe and discuss the etiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of falls in the elderly	Geriatrics

Gen Med	GM25.14	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of common fractures in the elderly	Geriatrics
Gen Med	GM25.15	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of vision abnormalities and visual loss in the elderly	Geriatrics
Gen Med	GM25.16	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
Gen Med	GM25.17	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of hearing loss in the elderly	Geriatrics
Gen Med	GM25.18	Describe the Impact of the demographic changes in ageing on the population	Geriatrics
Gen Med	GM25.19	Enumerate and describe the social problems in the elderly including isolation, abuse, change in family structure and their impact on Health	Geriatrics
Gen Med	GM25.20	Enumerate and describe social interventions in the care of elderly including domiciliary services, rehabilitation facilities, old age homes and state interventions	Geriatrics
Gen Med	GM25.21	Enumerate and describe ethical issues in the care of the elderly	Geriatrics
Gen Med	GM25.22	Describe and discuss the aetiopathogenesis, clinical presentation, complications, assessment and management of nutritional disorders in the elderly	Geriatrics
Gen Med	GM26.1	Describe and discuss the molecular mechanisms of microbial pathogenesis.	Infectious Diseases
Gen Med	GM26.2	Discuss the approach to a patient with an Infectious Disease.	Infectious Diseases

Gen Med			
Gen Med			
Gen Med	GM26.3	Elicit document and present a medical history that helps delineate the aetiology of infectious diseases that includes the evolution and pattern of symptoms, risk factors, exposure through occupation and Travel	Infectious Diseases
Gen Med	GM26.4	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)	Infectious Diseases
Gen Med			
Gen Med	GM26.5	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	Infectious Diseases
Gen Med	GM26.6	Enumerate and describe the indications for use of newer techniques in the diagnosis of these infections	Infectious Diseases
Gen Med	GM26.7	Discuss the approach to the Acutely Ill Infected Febrile Patient	Infectious Diseases
Gen Med	GM26.8	Describe and discuss the common causes, clinical features and management of infections of the Skin, Muscles and Soft Tissues.	Infectious Diseases
Gen Med	GM26.9	Describe and discuss the common causes, clinical features and management of liver and other Visceral abscesses.	Infectious Diseases
Gen Med	GM26.10	Describe and discuss the common causes, clinical features and management of acute infectious diarrheal diseases and bacterial food poisoning.	Infectious Diseases

Gen Med	GM26.11	Describe and discuss the common causes, clinical features and management of Urinary Tract Infections, Pyelonephritis, and Prostatitis.	Infectious Diseases
Gen Med	GM26.12	Describe and discuss the common causes, clinical features and management of encephalitis and meningitis.	Infectious Diseases
Gen Med	GM26.13	Describe and discuss the etiology, pathogenesis, clinical features and management of Clostridial infections like tetanus, botulism and gas gangrene.	Infectious Diseases
Gen Med	GM26.14	Describe and discuss the common causes, clinical features and management OF diseases caused by Gram-Negative Enteric Bacilli.	Infectious Diseases
Gen Med	GM26.15	Describe and discuss the etiopathogenesis, clinical features, complications and management of Helicobacter pylori Infections.	Infectious Diseases
Gen Med	GM26.16	Describe and discuss the clinical features, complications and management OF infections due to Pseudomonas and Burkholderia Species.	Infectious Diseases
Gen Med	GM26.17	Describe and discuss the etiopathogenesis, clinical features, complications and management of enteric fever.	Infectious Diseases
Gen Med	GM26.18	Describe and discuss the common causes, etiopathogenesis, clinical features and management of bacterial zoonotic diseases like Leptospirosis, Brucellosis, Plague and Anthrax.	Infectious Diseases
Gen Med			
Gen Med	GM26.19	Describe and discuss the pathogenesis, clinical features and management of common diseases caused by Actinomycosis and Nocardia.	Infectious Diseases
Gen Med	GM26.20	Describe and discuss the pathogenesis, clinical features and management of Rickettsial diseases especially of typhus group (Scrub typhus, epidemic typhus and endemic typhus).	Infectious Diseases

Gen Med	GM26.21	Describe and discuss the etiopathogenesis, clinical features, complications and management of He rpes Simplex Virus Infections.	Infectious Diseases
Gen Med	GM26.22	Describe and discuss the etiopathogenesis, clinical features, complications and management of Varicella-Zoster Virus Infections	Infectious Diseases
Gen Med	GM26.23	Describe and discuss the etiopathogenesis, clinical features, complications and management of Common Viral Respiratory Infections, Including COVID-19, SARS, Influenza.	Infectious Diseases
Gen Med	GM26.24	Describe and discuss the etiopathogenesis, clinical features, management and prevention of Rabies.	Infectious Diseases
Gen Med	GM26.25	Describe and discuss the etiopathogenesis, clinical features, complications and management of Dengue.	Infectious Diseases
Gen Med	GM26.26	Describe and discuss the etiopathogenesis, clinical features and management of candidiasis.	Infectious Diseases
Gen Med	GM26.27	Describe and discuss the etiopathogenesis, clinical features, and management of Aspergillosis	Infectious Diseases
Gen Med	GM26.28	Describe and discuss the etiopathogenesis, clinical features, complications and management of Amebiasis.	Infectious Diseases
Gen Med	GM26.29	Describe and discuss the etiopathogenesis, clinical features, complications and management of Malaria	Infectious Diseases
Gen Med	GM26.30	Prescribe drugs for malaria based on the species identified, prevalence of drug resistance and national programs.	Infectious Diseases
Gen Med	GM26.31	Describe and discuss the etiopathogenesis, clinical features and management of Leishmaniasis.	Infectious Diseases
Gen Med	GM26.32	Describe and discuss the etiopathogenesis, clinical features and management of Filarial disease.	Infectious Diseases
Gen Med	GM26.33	Describe and discuss the etiopathogenesis, clinical features, complications and management of Cysticercosis.	Infectious Diseases
Gen Med			
Gen Med			
Gen Med			

Gen Med	GM26.34	Communicate to the patient and family the diagnosis and treatment of identified infection	Infectious Diseases
Gen Med	GM26.35	Counsel the patient and family on prevention of various infections due to environmental issues	Infectious Diseases
Gen Med	GM27.1	Describe and discuss the epidemiology of tuberculosis and its impact on the work, life and economy of India	Tuberculosis
Gen Med	GM27.2	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
Gen Med	GM27.3	Discuss and describe the impact of co-infection with HIV and other co-morbid conditions such as diabetes on the natural history of tuberculosis	Tuberculosis
Gen Med	GM27.4	Describe the epidemiology, the predisposing factors, microbial and therapeutic factors that determine resistance to anti-tubercular drugs	Tuberculosis
Gen Med	GM27.5	Elicit, document and present an appropriate medical history that includes risk factor, contacts, symptoms including cough, fever, anorexia, weight loss, hemoptysis and symptoms of extra- pulmonary manifestations	Tuberculosis
Gen Med	GM27.6	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 of lung sounds and added sounds c) examination of the lymphatic system and d) relevant CNS examination	Tuberculosis
Gen Med	GM27.7	Interpret a PPD (Mantoux Test) and describe and discuss the indications and pitfalls of the test	Tuberculosis
Gen Med	GM27.8	Generate a differential diagnosis based on the clinical history and evolution of the disease that prioritizes the most likely diagnosis in patient with history/ examination findings suggestive of Tuberculosis	Tuberculosis

Gen Med	GM27.9	Order and interpret diagnostic tests based on the clinical presentation in patient with history/ examination findings suggestive of Tuberculosis including: CBC, Chest X ray PA view, Mantoux Test, sputum smear, culture and sensitivity, pleural fluid examination and culture, HIV testing	Tuberculosis
Gen Med	GM27.10	Interpret a sputum gram stain and AFB with antibiotic sensitivity test from a given report	Tuberculosis
Gen Med			
Gen Med			
Gen Med	GM27.11	Enumerate and describe the indications for tests including: serology, special cultures, Polymerase Chain Reaction and anti-tubercular drug sensitivity testing	Tuberculosis
Gen Med	GM27.12	Describe and discuss the origin, indications, technique of administration, efficacy and complications of the BCG vaccine	Tuberculosis
Gen Med	GM27.13	Describe and discuss the pharmacology of various anti-tuberculous agents, their indications, contraindications, interactions and adverse reactions	Tuberculosis
Gen Med	GM27.14	Prescribe an appropriate anti-tuberculosis Regimen based on the location of disease, smear positivity and negativity and comorbidities based on current national guidelines including directly observed tuberculosis therapy (DOTS)	Tuberculosis
Gen Med	GM27.15	Describe the appropriate precautions, screening, testing and indications for chemoprophylaxis for contacts and exposed health care workers	Tuberculosis
Gen Med	GM27.16	Define criteria for the cure of Tuberculosis; describe and recognize the features of drug-resistant tuberculosis, prevention and therapeutic regimens	Tuberculosis
Gen Med	GM27.17	Educate health care workers on National Program of Tuberculosis and administering and monitoring the DOTS program	Tuberculosis
Gen Med	GM27.18	Communicate with patients and family in an empathetic manner about the diagnosis and therapy of tuberculosis.	Tuberculosis

Gen Med	GM28.1	Define and classify obstructive airway disease	Obstructive Airway disease
Gen Med	GM28.2	Describe and discuss the epidemiology, risk factors and evolution of obstructive airway disease	Obstructive Airway disease
Gen Med	GM28.3	Enumerate and describe the causes of acute episodes in patients with obstructive airway disease	Obstructive Airway disease
Gen Med	GM28.4	Describe and discuss the physiology and pathophysiology of hypoxia and hypercapnia	Obstructive Airway disease
Gen Med	GM28.5	Describe and discuss the genetics of alpha 1 antitrypsin deficiency in emphysema	Obstructive Airway disease
Gen Med	GM28.6	Describe the role of the environment in the cause and exacerbation of obstructive airway disease	Obstructive Airway disease
Gen Med	GM28.7	Describe and discuss allergic and non-allergic precipitants of obstructive airway disease	Obstructive Airway disease
Gen Med	GM28.8	Elicit document and present a medical history that will differentiate the aetiologies of obstructive airway disease, severity and precipitants	Obstructive Airway disease
Gen Med	GM28.9	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
Gen Med	GM28.10	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	Obstructive Airway disease
Gen Med	GM28.11	Describe, discuss and interpret pulmonary function tests	Obstructive Airway disease
Gen Med	GM28.12	Perform and interpret peak expiratory flow rate	Obstructive Airway disease
Gen Med	GM28.13	Describe the appropriate diagnostic work up based on the presumed aetiology in patient with Obstructive Airway Disease	Obstructive Airway disease

Gen Med	GM28.14	Enumerate the indications for and interpret the results of : Pulse Oximetry, ABG, Chest Radiograph	Obstructive Airway disease
Gen Med	GM28.15	Discuss and describe therapies for OAD including bronchodilators, leukotriene inhibitors, mast cell stabilizers, theophylline, inhaled and systemic steroids, oxygen and immunotherapy	Obstructive Airway disease
Gen Med	GM28.16	Describe and discuss the indications for vaccinations in OAD	Obstructive Airway disease
Gen Med	GM28.17	Develop a therapeutic plan including use of bronchodilators and inhaled corticosteroids	Obstructive Airway disease
Gen Med	GM28.18	Develop a management plan for acute exacerbations including bronchodilators, systemic steroids, Antimicrobial therapy	Obstructive Airway disease
Gen Med	GM28.19	Describe and discuss the principles and use of oxygen therapy in the hospital and at home	Obstructive Airway disease
Gen Med	GM28.20	Describe discuss and counsel patients appropriately on smoking cessation	Obstructive Airway disease
Gen Med	GM28.21	Demonstrate and counsel patient on the correct use of inhalers	Obstructive Airway disease
Gen Med	GM28.22	Communicate diagnosis, treatment plan and subsequent follow up plan to patients	Obstructive Airway disease
Gen Med	GM28.23	Discuss and describe the impact of OAD on patient's quality of life, wellbeing, work, family, society and workplace	Obstructive Airway disease
Gen Med	GM28.24	Discuss and describe preventive measures to reduce OAD in workplaces	Obstructive Airway disease
Gen Med	GM28.25	Demonstrate an understanding of patient's inability to change working, living and environmental factors that influence progression of airway disease	Obstructive Airway disease
Gen Med	GM28.26	Demonstrate an understanding for the difficulties faced by patients during smoking cessation	Obstructive Airway disease
Gen Med	GM29.1	Describe and discuss the role of non-maleficence as a guiding principle in patient care	The role of the physician in the community

Gen Med			
Gen Med			
Gen Med	GM29.2	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
Gen Med	GM29.3	Describe and discuss the role of beneficence of a guiding principle in patient care	The role of the physician in the community
Gen Med	GM29.4	Identify, discuss and defend medico-legal, 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
Gen Med			
Gen Med			
Gen Med			
Gen Med	GM29.5	Identify, discuss and defend medico-legal, 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
Gen Med			
Gen Med	GM29.6	Identify, discuss and defend medico-legal, 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
Gen Med	GM29.7	Identify, discuss and defend medico-legal, socio-cultural and ethical issues as it pertains to research in study participants	The role of the physician in the community
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Gen Med	GM29.8	Demonstrate ability to work in a team of peers and superiors	The role of the physician in the community
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Gen Med	GM29.9	Demonstrate respect to patient privacy	The role of the physician in the community
Gen Med	GM29.10	Demonstrate ability to maintain confidentiality in patient care	The role of the physician in the community
Gen Med	GM29.11	Demonstrate a commitment to continued learning	The role of the physician in the community
Gen Med			
Gen Med	GM29.12	Demonstrate responsibility and work ethics while working in the health care team	The role of the physician in the community
Gen Med	GM29.13	Demonstrate ability to maintain required documentation in health care (including correct use of medical records)	The role of the physician in the community
Gen Med	GM29.14	Demonstrate personal grooming that is adequate and appropriate for health care responsibilities	The role of the physician in the community
Gen Med	GM29.15	Demonstrate adequate knowledge and use of information technology that permits appropriate patient care and continued learning	The role of the physician in the community
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Gen Med	GM29.16	Demonstrate awareness of limitations and seeks help and consultations appropriately	The role of the physician in the community
Gen Med	GM29.17	Demonstrate ability to balance personal and professional priorities	The role of the physician in the community
Gen Med	GM29.18	Demonstrate ability to manage time appropriately	The role of the physician in the community

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Gen Med	GM29.19	Demonstrate ability to form and function in appropriate professional networks	The role of the physician in the community
Gen Med	GM29.20	Demonstrate ability to pursue and seek career advancement	The role of the physician in the community
Gen Med	GM29.21	Demonstrate ability to follow risk management and medical error reduction practices where appropriate	The role of the physician in the community
Gen Med	GM29.22	Demonstrate ability to work in a mentoring relationship with junior colleagues	The role of the physician in the community
Gen Med	GM29.23	Demonstrate commitment to learning and scholarship	The role of the physician in the community
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Gen Med	GM29.24	Identify, discuss and defend medico-legal, socio-cultural professional and ethical issues in dealing with Impaired physicians	The role of the physician in the community
Gen Med			
Gen Med	GM29.25	Demonstrate altruism	The role of the physician in the community

Gen Med	GM29.26	Administer informed consent and appropriately address patient queries to a patient being enrolled in a research protocol in a simulated environment	The role of the physician in the community
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Obstetrics & Gynaecology	OG1.1	Define and discuss birthrate, maternal mortality and morbidity and maternal near miss	Demographic and Vital Statistics
Obstetrics & Gynaecology	OG1.2	Define and discuss perinatal mortality and morbidity including perinatal and neonatal mortality and morbidity audit	Demographic and Vital Statistics
Obstetrics & Gynaecology	OG1.3	Define and discuss still birth and abortion	Demographic and Vital Statistics
Obstetrics & Gynaecology	OG1.4	Define and discuss caesarean audit according to modified Robsons classification	Demographic and Vital Statistics
Obstetrics & Gynaecology	OG 1.5	Describe and discuss the national programs relevant to Obstetrics & Gynaecology including JSY, JSSK, birth & death registration, anaemia mukt bharat, SUMAN	Demographic and Vital Statistics
Obstetrics & Gynaecology	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)
Obstetrics & Gynaecology	OG3.1	Describe the physiology of ovulation,menstruation,fertilization,implantation and gametogenesis.	Physiology of conception

Obstetrics & Gynaecology	OG4.1	Describe and discuss the basic embryology of fetus, factors influencing fetal growth and development, anatomy and physiology of placenta	Development of the fetus and the placenta
Obstetrics & Gynaecology	OG5.1	Describe, discuss and identify pre-existing medical disorders and discuss their management DM, HT, renal disorders, SLE, obesity, epilepsy & heart disease	Preconception counselling
Obstetrics & Gynaecology	OG5.2	Determine maternal high risk factors and verify immunization status	Preconception counselling
Obstetrics & Gynaecology	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
Obstetrics & Gynaecology	OG7.1	Describe and discuss the changes in the genital tract, breast, cardiovascular system, respiratory, haematology, renal and gastro intestinal system in pregnancy	Maternal Changes in pregnancy
Obstetrics & Gynaecology	OG8.1	Enumerate, describe and discuss the objectives of antenatal care, assessment of period of gestation; screening for high-risk factors and concept of inverted pyramid of care	Antenatal Care
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
Obstetrics & Gynaecology	OG8.3	Describe, demonstrate, document and perform an obstetrical examination including a general and abdominal examination (symphysio- fundal height & abdominal girth) and clinical monitoring of maternal and fetal well-being	Antenatal Care
Obstetrics & Gynaecology	OG8.4	Describe and demonstrate clinical monitoring of maternal and fetal well- being including weight gain, DFMC, NST & BPP	Antenatal Care
Obstetrics & Gynaecology	OG8.5	Describe and demonstrate pelvic assessment & evaluation of CPD in a model	Antenatal Care

Obstetrics & Gynaecology	OG8.6	Assess and counsel a patient in a simulated environment regarding appropriate nutrition in pregnancy	Antenatal Care
Obstetrics & Gynaecology	OG8.7	Enumerate the indications for and types of vaccination in pregnancy	Antenatal Care
Obstetrics & Gynaecology	OG8.8	Enumerate the indications and describe the investigations includingthe use of ultrasound in the initial assessment and monitoring in pregnancy	Antenatal Care
Obstetrics & Gynaecology	OG 8.9	Describe and discuss causes of still births and their management	Antenatal Care
Obstetrics & Gynaecology	OG8.10	Describe and discuss cases of post caesarean pregnancy and their management	Antenatal Care
Obstetrics & Gynaecology	OG9.1	Classify, define and discusses the aetiology and management of abortions including threatened, incomplete, inevitable, missed and Septic abortion	Complications in early pregnancy
Obstetrics & Gynaecology	OG 9.2	Classify, define and discusses the aetiology and management of Recurrent pregnancy loss	Complications in early pregnancy
Obstetrics & Gynaecology	OG9.3	Describe the steps and observe/ assist in the performance of an MTP evacuation (medical abortion, eva& MVA)	Complications in early pregnancy
Obstetrics & Gynaecology	OG9.4	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
Obstetrics & Gynaecology	OG9.5	Discuss the clinical features, laboratory investigations, ultrasonography, differential diagnosis, principles of management and follow-up of gestational trophoblastic neoplasms	Complications in early pregnancy

Obstetrics & Gynaecology	OG9.6	Describe the etiopathology, impact on maternal and fetal health and principles of management of hyperemesis gravidarum	Complications in early pregnancy
Obstetrics & Gynaecology	OG10.1	Define, classify and describe the aetiology, pathogenesis, clinical features, ultrasonography, differential diagnosis and management of antepartum haemorrhage in pregnancy	Antepartum haemorrhage
Obstetrics & Gynaecology	OG10.2	Enumerate the indications and describe the appropriate use of blood and blood products, their complications and management.	Antepartum haemorrhage
Obstetrics & Gynaecology	OG11.1	Describe the etiopathology, clinical features; diagnosis andinvestigations, complications, principles of management of multiple pregnancies	Multiple pregnancies
Obstetrics & Gynaecology	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.	Medical Disorders in pregnancy
Obstetrics & Gynaecology	OG12.2	Define, classify and describe the etiology, pathophysiology, diagnosis, investigations, adverse effects on the mother and foetus and management during pregnancy and labor, and complications of anemia in pregnancy	Medical Disorders in pregnancy
Obstetrics & Gynaecology	OG12.3	Define, classify and describe the etiology, pathophysiology, diagnosis, investigations, criteria, adverse effects on mother and foetus and the management during pregnancy and labor, and complications of diabetes in pregnancy	Medical Disorders in pregnancy
Obstetrics & Gynaecology	OG12.4	Define, classify and describe the etiology, pathophysiology, diagnosis, investigations, criteria, adverse effects on mother and foetus and the management during pregnancy and labor, and complications of heart diseases in pregnancy	Medical Disorders in pregnancy
Obstetrics & Gynaecology	OG12.5	Describe the clinical features, detection, effect of pregnancy on the disease and impact of the disease on pregnancy complications and management of urinary tract infections in pregnancy	Medical Disorders in pregnancy

Obstetrics & Gynaecology	OG12.6	Describe the clinical features, detection, effect of pregnancy on disease and impact of the disease on pregnancy complications and management of liver disease in pregnancy	Medical Disorders in pregnancy
Obstetrics & Gynaecology	OG12.7	Describe and discuss screening, risk factors, management of mother and new born with HIV	Medical Disorders in pregnancy
Obstetrics & Gynaecology	OG12.8	Describe the mechanism, prophylaxis, fetal complications, diagnosis and management of iso-immunization in pregnancy	Medical Disorders in pregnancy
Obstetrics & Gynaecology	OG 12.9	Describe the mechanism, prophylaxis, fetal complications, diagnosis and management of thyroid disorders in pregnancy	Medical Disorders in pregnancy
Obstetrics & Gynaecology	OG 12.10	Describe the mechanism, prophylaxis, fetal complications, diagnosis and management of gynaecological & surgical disorders in pregnancy	Medical Disorders in pregnancy
Obstetrics & Gynaecology	OG12.11	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	Medical Disorders in pregnancy
Obstetrics & Gynaecology	OG 13.1	Enumerate and discuss the diameters of maternal pelvis and types	Labour
Obstetrics & Gynaecology	OG 13.2	Discuss the mechanism of normal labor	Labour
Obstetrics & Gynaecology	OG13.3	Enumerate and discuss the physiology of normal labor, mechanism of labor in occipito-anterior presentation; monitoring of labor including partogram and labour care guide; conduct of labor, pain relief; principles of induction and acceleration of labor; management of third stage of labor.	Labour

Obstetrics & Gynaecology	OG13.4	Define, describe the causes, pathophysiology, diagnosis, investigations and management of preterm labor, PROM and post-dated pregnancy	Labour
Obstetrics & Gynaecology	OG13.5	Observe/assist in the performance of an artificial rupture of membranes	Labour
Obstetrics & Gynaecology	OG13.6	Demonstrate the stages of normal labor in a simulated environment /mannequin	Labour
Obstetrics & Gynaecology	OG13.7	Observe and assist the conduct of a normal vaginal delivery	Labour
Obstetrics & Gynaecology	OG 13.8	Discuss and describe components of respectful maternity care	Labour
Obstetrics & Gynaecology			
Obstetrics & Gynaecology	OG14.1	Define and describe obstructed labor, its clinical features; prevention; and management	Abnormal Labour
Obstetrics & Gynaecology	OG14.2	Describe and discuss rupture uterus, causes, diagnosis and management.	Abnormal Labour
Obstetrics & Gynaecology	OG14.3	Describe and discuss the classification; diagnosis; management of abnormal labor (occipitoposterior position, breech, face, transverse lie)	Abnormal Labour

Obstetrics & Gynaecology	OG15.1	Enumerate and describe the indications and steps of common obstetric competencies, technique and complications: Episiotomy, vacuum extraction; low forceps; Caesarean section, assisted breech delivery; external cephalic version; cervical cerclage	Operative obstetrics
Obstetrics & Gynaecology	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
Obstetrics & Gynaecology	OG16.1	Enumerate and discuss causes, prevention, diagnosis, management, appropriate use of blood and blood products in post-partum haemorrhage	Complications of the third stage
Obstetrics & Gynaecology	OG 16.2	Describe and demonstrate different techniques used to manage PPH including bimanual and aortic compression, intrauterine balloon tamponade, non-pneumatic anti shock garment application	Complications of the third stage
Obstetrics & Gynaecology	OG16.3	Describe and discuss uterine inversion– causes, prevention, diagnosis and management.	Complications of the third stage
Obstetrics & Gynaecology	OG16.4	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
Obstetrics & Gynaecology	OG17.1	Describe and discuss the physiology of lactation & discuss baby friendly hospital initiatives	Lactation
Obstetrics & Gynaecology	OG17.2	Counsel in a simulated environment, care of the breast, importance and the technique of breast-feeding	Lactation
Obstetrics & Gynaecology	OG17.3	Describe and discuss the clinical features, diagnosis and management of mastitis and breast abscess	Lactation

Obstetrics & Gynaecology	OG18.1	Describe and discuss the assessment of maturity of the newborn, diagnosis of birth asphyxia, principles of resuscitation, common problems.	Care of the new born
Obstetrics & Gynaecology	OG18.2	Demonstrate the steps of neonatal resuscitation in a simulated environment	Care of the new born
Obstetrics & Gynaecology	OG18.3	Describe and discuss the diagnosis of birth asphyxia	Care of the new born
Obstetrics & Gynaecology	OG18.4	Describe the principles of resuscitation of the new-born and enumerate the common problems encountered	Care of the new born
Obstetrics & Gynaecology	OG19.1	Describe and discuss the physiology of puerperium, its complications, diagnosis and management; counselling for contraception, puerperal sterilization	Normal and abnormal puerperium.
Obstetrics & Gynaecology	OG19.2	Counsel in a simulated environment, contraception and puerperal Sterilisation	Normal and abnormal puerperium.
Obstetrics & Gynaecology	OG19.3	Observe/assist in the performance of tubal ligation	Normal and abnormal puerperium.
Obstetrics & Gynaecology	OG19.4	Describe & discuss PPIUCD programme	Normal and abnormal puerperium.
Obstetrics & Gynaecology	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
Obstetrics & Gynaecology	OG20.2	In a simulated environment administer informed consent to a person wishing to undergo Medical Termination of Pregnancy	Medical termination of pregnancy

Obstetrics & Gynaecology	OG20.3	DiscussPre- conception and PreNatal Diagnostic Techniques (PC & PNDT) Act 1994 & its amendments	Medical termination of pregnancy
Obstetrics & Gynaecology	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 OCs, male contraception, emergency contraception and IUCD	Contraception
Obstetrics & Gynaecology	OG21.2	Enumerate the indications for, describe the steps in and insert and remove an intrauterine device in a simulated environment	Contraception
Obstetrics & Gynaecology	OG22.1	Describe the clinical characteristics of physiological vaginal discharge.	Vaginal discharge
Obstetrics & Gynaecology	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
Obstetrics & Gynaecology	OG23.1	Describe and discuss thephysiology of puberty, features of abnormal puberty, common problems and their management	Normal and abnormal puberty
Obstetrics & Gynaecology	OG23.2	Enumerate the causes of delayed puberty. Describe the investigation and management of common causes	Normal and abnormal puberty
Obstetrics & Gynaecology	OG23.3	Enumerate the causes of precocious puberty	Normal and abnormal puberty
Obstetrics & Gynaecology	OG24.1	Define, classify and discuss abnormal uterine bleeding, its aetiology, clinical features, investigations, diagnosis and management	Abnormal uterine bleeding

Obstetrics & Gynaecology	OG25.1	Describe and discuss the causes of primary and secondary amenorrhea, its investigation and the principles of management.	Amenorrhea
Obstetrics & Gynaecology	OG26.1	Describe the causes, prevention, clinical features, principles of management of genital injuries and fistulae	Genital injuries and fistulae
Obstetrics & Gynaecology	OG26.2	Describe the causes, prevention, clinical features, principles of management of genital injuries and fistulae	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 (concept of syndromic management)	Genital infections
Obstetrics & Gynaecology	OG27.2	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, management and long-term implications of genital tuberculosis	Genital infections
Obstetrics & Gynaecology	OG27.3	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, management and long term implications of Pelvic Inflammatory Disease	Genital infections
Obstetrics & Gynaecology	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
Obstetrics & Gynaecology	OG28.2	Enumerate the assessment and restoration of tubal patency	Infertility
Obstetrics & Gynaecology	OG28.3	Describe the principles of ovulation induction	Infertility

Obstetrics & Gynaecology	OG28.4	Enumerate the various Assisted Reproduction Techniques	Infertility
Obstetrics & Gynaecology	OG29.1	Describe and discuss the etiology; pathology; clinical features; differential diagnosis; investigations; principles of management, complications of fibroid uterus	Uterine fibroids
Obstetrics & Gynaecology	OG 30.1	Describe and discuss the etiopathogenesis; clinical features; differential diagnosis; investigations; management, complications of PCOS	PCOS and hirsutism
Obstetrics & Gynaecology	OG30.2	Enumerate the causes and describe the investigations and management of hyper-androgenism	PCOS and hirsutism
Obstetrics & Gynaecology	OG31.1	Describe and discuss the etiology, classification, clinical features, diagnosis, investigations, principles of management and preventive aspects of prolapse of uterus	Uterine prolapse
Obstetrics & Gynaecology	OG32.1	Describe and discuss the physiology of menopause, symptoms, prevention, management and the role of hormone replacement therapy.	Menopause
Obstetrics & Gynaecology	OG32.2	Enumerate the causes of post-menopausal bleeding and describe its management	Menopause
Obstetrics & Gynaecology	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
Obstetrics & Gynaecology	OG33.2	Describe the principles of management including surgery and radiotherapy of and Malignant Lesions of the Cervix	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	Benign, Pre-malignant (CIN) and Malignant Lesions of the Cervix

Obstetrics & Gynaecology			
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
Obstetrics & Gynaecology	OG 33.5	Describe the principles of management of benign and premalignant lesions of cervix (Cryotherapy, thermal ablation & LEEP)	Benign, Pre-malignant (CIN) and Malignant Lesions of the Cervix
Obstetrics & Gynaecology	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
Obstetrics & Gynaecology	OG34.2	Describe and discuss 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
Obstetrics & Gynaecology	OG34.3	Describe and discuss 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
Obstetrics & Gynaecology	OG34.4	Operative Gynaecology : Understand and describe the technique and complications:Dilatation & Curettage (D&C); EA- ECC;cervical biopsy;	Benign and malignant diseases of the uterus and the ovaries
Obstetrics & Gynaecology	OG34.5	Operative Gynaecology : Understand and describe the technique and complications of 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

Obstetrics & Gynaecology	OG 34.6	Describe and discuss the etiopathogenesis, clinical features; investigation and implications on health and fertility and management of endometriosis and adenomyosis	Benign and malignant diseases of the uterus and the ovaries
Obstetrics & Gynaecology	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
Obstetrics & Gynaecology	OG35.2	Arrive at a logical provisional diagnosis after examination.	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	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
Obstetrics & Gynaecology	OG35.4	Describe, discuss and demonstrate examination, differential diagnosis and management of a case of suprapubic lump in abdomen	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	OG 35.5	Describe, discuss and demonstrate examination, differential diagnosis and management of a case of vaginal discharge	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	OG35.6	Describe, discuss and demonstrate examination, differential diagnosis and management of a case of genital ulcers	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	OG35.7	Demonstrate inter-personal and communication skills befitting a physician in order to discuss illness and its outcome with patient and family	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	OG35.8	Determine gestational age, EDD and obstetric formula	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	OG35.9	Demonstrate ethical behavior in all aspects of medical practice.	Obstetrics & Gynecological skills - I

Obstetrics & Gynaecology	OG35.10	Obtain informed consent for any examination /procedure	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	OG35.11	Write a complete case record with all necessary details	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	OG35.12	Write a proper discharge summary with all relevant information	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	OG35.13	Write a proper referral note to secondary or tertiary centres or to other physicians with all necessary details.	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	OG35.14	Demonstrate the correct use of appropriate universal precautions for self- protection against HIV and hepatitis and counsel patients	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	OG35.15	Obtain a PAP smear in a stimulated environment	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	OG35.16	Demonstrate the correct technique to perform artificial rupture of membranes In a simulated/ supervised environment	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	OG35.17	Demonstrate the correct technique to perform and suture episiotomies in a simulated/ supervised environment	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	OG35.18	Demonstrate the correct technique to insert and remove an IUD in a simulated /supervised environment	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	OG35.19	Diagnose and provide emergency management of antepartum and postpartum hemorrhage in a simulated /guided environment	Obstetrics & Gynecological skills - I
Obstetrics & Gynaecology	OG35.20	Demonstratethecorrecttechniqueofurinarycatheterisationinasimulated/supervisedenvironment	Obstetrics & Gynecological skills - I

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

Obstetrics & Gynaecology	OG38.1	Laparoscopy	Should observe
Obstetrics & Gynaecology	OG38.2	Hysteroscopy	Should observe
Obstetrics & Gynaecology	OG38.3	Lap sterilization	Should observe
Obstetrics & Gynaecology	OG38.4	Assess the need for And issue proper medical certificates to patients for various purposes	Should observe
Pediatrics	PE1.1	Define the terminologies Growth and development and describe the factors affecting normal growth.	Normal Growth and Development
Pediatrics			
Pediatrics	PE1.2	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 and Perform Anthropometric measurements, document in growth-charts and interpret.	Normal Growth and Development
Pediatrics			
Pediatrics			
Pediatrics	PE1.3	Define development and Describe the normal developmental milestones with respect to motor, behaviour, social, adaptive and language. Discuss the factors affecting development and describe the assessment methods of development.	Normal Growth and Development
Pediatrics			
Pediatrics	PE2.1	Discuss the etio-pathogenesis, clinical features, assessment and management of a child who fails to thrive	Common problems related to Growth
Pediatrics			

Pediatrics	PE2.2	Counselling the parent of a child with failure to thrive.	Common problems related to Growth
Pediatrics	PE2.3	Discuss the etio-pathogenesis, clinical features and management of a child with short stature. Assessment of a child with short stature.	Common problems related to Growth
Pediatrics			
Pediatrics			
Pediatrics	PE3.1	Define developmental delay. Describe the causes of developmental delay and disability including intellectual disability in children	Common problems related to Development -1 (Developmental delay , Cerebral palsy)
Pediatrics	PE3.2	Explain the approach to a child with developmental delay	Common problems related to Development -1 (Developmental delay , Cerebral palsy)
Pediatrics			
Pediatrics	PE3.3	Counsel a parent of a child with developmental delay	Common problems related to Development -1 (Developmental delay , Cerebral palsy)
Pediatrics			
Pediatrics			
Pediatrics	PE3.4	Visit a Child Developmental Unit and observe its functioning	Common problems related to Development -1 (Developmental delay , Cerebral palsy)
Pediatrics			

Pediatrics			
Pediatrics	PE4.1	Describe the etiology, clinical features, diagnosis and management of a child with Attention Deficit Hyperactivity Disorder (ADHD)	Common problems related to Development-2 (Autism, ADHD)
Pediatrics	PE4.2	Describe the etiology, clinical features, diagnosis and management of a child with Autism	Common problems related to Development-2 (Autism, ADHD)
Pediatrics			
Pediatrics			
Pediatrics	PE5.1	Describe the clinical features, diagnosis and management of Feeding problems	Common problems related to behavior
Pediatrics	PE5.2	Describe the clinical features, diagnosis and management of Breath Holding spells	Common problems related to behavior
Pediatrics			
Pediatrics			
Pediatrics	PE5.3	Describe the clinical features, diagnosis and management of temper tantrums and Pica	Common problems related to behavior
Pediatrics			
Pediatrics	PE5.4	Explain the etiology, clinical features and management of Enuresis	Common problems related to behavior
Pediatrics			
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Pediatrics			

Pediatrics	PE6.1	Define Adolescence and Describe the stages of adolescence	Adolescent Health & common problems related to Adolescent Health
Pediatrics	PE6.2	Describe the physical, physiological and psychological changes during adolescence (Puberty)	Adolescent Health & common problems related to Adolescent Health
Pediatrics	PE6.3	Describe the general health problems during adolescence	Adolescent Health & common problems related to Adolescent Health
Pediatrics	PE6.4	Describe adolescent sexuality and common problems related to it	Adolescent Health & common problems related to Adolescent Health
Pediatrics			
Pediatrics	PE6.5	Describe the common Adolescent eating disorders (Anorexia Nervosa, Bulimia)	Adolescent Health & common problems related to Adolescent Health
Pediatrics	PE6.6	Describe the common mental health problems during adolescence	Adolescent Health & common problems related to Adolescent Health
Pediatrics	PE6.7	Respecting patient privacy and maintaining confidentiality while dealing with adolescence	Adolescent Health & common problems related to Adolescent Health
Pediatrics	PE6.8	Perform routine Adolescent Health check up including eliciting history, performing examination including SMR (Sex 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
Pediatrics	PE6.9	Explain the objectives and functions of AFHS (Adolescent Friendly Health Services) and the referral criteria	Adolescent Health & common problems related to Adolescent Health
Pediatrics	PE6.10	Visit to the Adolescent Clinic	Adolescent Health & common problems related to Adolescent Health
Pediatrics	PE6.11	Enumerate the importance of obesity and other NCD in adolescents	Adolescent Health & common problems related to Adolescent Health
Pediatrics	PE6.12	Enumerate the prevalence and importance of recognition of sexual abuse and drug abuse in adolescents and children	Adolescent Health & common problems related to Adolescent Health

Pediatrics	PE7.1	Awareness on the cultural beliefs and practices of breastfeeding and explain physiology of lactation	To promote and support optimal Breast feeding for Infants
Pediatrics			
Pediatrics	PE7.2	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
Pediatrics	PE7.3	Describe the advantages of breast milk	To promote and support optimal Breast feeding for Infants
Pediatrics	PE7.4	Observe the correct technique of breastfeeding and distinguish right from wrong techniques	To promote and support optimal Breast feeding for Infants
Pediatrics	PE7.5	Enumerate the baby friendly hospital initiatives	To promote and support optimal Breast feeding for Infants
Pediatrics	PE7.6	Describe the principles of IYCF (Infant and Young Child Feeding)	To promote and support optimal Breast feeding for Infants
Pediatrics	PE7.7	Participate in World Breastfeeding Week (WBW) celebration at your institute	To promote and support optimal Breast feeding for Infants
Pediatrics	PE7.8	Describe the structure and functioning of human milk bank and visit the nearest human bilk bank	To promote and support optimal Breast feeding for Infants
Pediatrics			
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Pediatrics			
Pediatrics			
Pediatrics	PE8.1	Define the term Complementary Feeding	Complementary Feeding
Pediatrics	PE8.2	Explain the principles, the initiation, attributes, frequency, techniques and hygiene related to Complementary Feeding.	Complementary Feeding
Pediatrics	PE8.3	Enumerate the common complementary foods	Complementary Feeding

Pediatrics	PE8.4	Elicit history on the Complementary Feeding habits	Complementary Feeding
Pediatrics	PE8.5	Counsel and educate mother son the best practices in Complementary Feeding	Complementary Feeding
Pediatrics	PE9.1	Describe age-related nutritional needs of infants, children and adolescents including micronutrients and vitamins	Normal nutrition, assessment and monitoring
Pediatrics	PE9.2	Describe the tools and methods for assessment and classification of nutritional status of infants, children and adolescents	Normal nutrition, assessment and monitoring
Pediatrics	PE9.3	Explain the Calorific value of common Indian foods	Normal nutrition, assessment and monitoring
Pediatrics	PE9.4	Elicit document and present an appropriate nutritional history and perform a dietary recall	Normal nutrition, assessment and monitoring
Pediatrics	PE9.5	Calculate the age-related calorie requirement in Health and Disease, and identify gap	Normal nutrition, assessment and monitoring
Pediatrics	PE9.6	Assess and classify the nutrition status of infants, children and adolescents and recognize deviations	Normal nutrition, assessment and monitoring
Pediatrics	PE9.7	Plan an appropriate diet in health and disease	Normal nutrition, assessment and monitoring
Pediatrics	PE10.1	Define and describe the etio-pathogenesis, classify including WHO classification, clinical features, complication and management of Severe Acute Malnutrition (SAM) and Moderate Acute Malnutrition (MAM)	Provide nutritional support , assessment and monitoring for common nutritional problems
Pediatrics	PE10.2	Outline the clinical approach to a child with SAM and MAM	Provide nutritional support , assessment and monitoring for common nutritional problems
Pediatrics	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
Pediatrics	PE10.4	Counsel parents of children with SAM and MAM	Provide nutritional support , assessment and monitoring for common nutritional problems
Pediatrics	PE10.5	Enumerate the role of locally prepared therapeutic diets and ready to use therapeutic diets	Provide nutritional support , assessment and monitoring for common nutritional problems

Pediatrics	PE10.6	Explain the Adolescent Nutrition and common nutritional problems	Provide nutritional support , assessment and monitoring for common nutritional problems
Pediatrics	PE11.1	Describe the etiology, clinical features and management of obesity in children	Obesity in children
Pediatrics	PE11.2	Describe the risk approach for obesity and discuss the prevention strategies	Obesity in children
Pediatrics	PE11.3	Assessment of a child with obesity with regard to eliciting history including physical activity, charting and dietary recall	Obesity in children
Pediatrics	PE11.4	Examination including calculation of BMI, measurement of waist-hip ratio, identifying external markers like acanthosis, striae, pseudogynaecomastia etc	Obesity in children
Pediatrics			
Pediatrics			
Pediatrics	PE12.1	Describe the RDA, dietary sources of Vitamin A, its metabolism.	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
Pediatrics	PE12.2	Describe the causes, clinical features, classification, diagnosis and management of Deficiency/excess of Vitamin A	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
Pediatrics			
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Pediatrics	PE12.3	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)
Pediatrics			

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Pediatrics			
Pediatrics	PE12.4	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)
Pediatrics	PE12.5	Describe 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)
Pediatrics	PE12.6	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)
Pediatrics	PE12.7	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)
Pediatrics	PE12.8	Describe the RDA, dietary sources of Vitamin C and their role in Health and disease, clinical features of deficiency and management	Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)
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Pediatrics	PE13.1	Describe the RDA, dietary sources of Iron and their role in health and disease, clinical features of iron deficiency, and management	Micronutrients in Health and disease -2: Iron, Iodine, Calcium, Magnesium
Pediatrics			
Pediatrics			
Pediatrics	PE13.2	Describe the National anaemia control program and its recommendations	Micronutrients in Health and disease -2: Iron, Iodine, Calcium, Magnesium
Pediatrics	PE13.3	Describe the RDA, dietary sources of Iodine and their role in Health and disease, deficiency, and Goitre control program	Micronutrients in Health and disease -2: Iron, Iodine, Calcium, Magnesium
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Pediatrics	PE13.4	Describe the RDA, dietary sources of Calcium and Magnesium and their role in health and disease, clinical features and management of deficiency states.	Micronutrients in Health and disease -2: Iron, Iodine, Calcium, Magnesium
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Pediatrics	PE14.1	Explain the risk factors, clinical features, diagnosis and management of Kerosene ingestion	Poisoning
Pediatrics	PE14.2	Explain the risk factors, clinical features, diagnosis and management of Organophosphorus poisoning	Poisoning
Pediatrics	PE14.3	Describe the risk factors, clinical features, diagnosis and management of paracetamol poisoning	Poisoning
Pediatrics	PE15.1	Describe the fluid and electrolyte requirement in health and disease	Fluid and electrolyte balance
Pediatrics	PE15.2	Interpret electrolyte report and describe the management of sodium and potassium imbalance	Fluid and electrolyte balance
Pediatrics			
Pediatrics	PE15.3	Demonstrate the steps of inserting an IV cannula in a model	Fluid and electrolyte balance
Pediatrics			
Pediatrics	PE15.4	Demonstrate the steps of inserting an interosseous line in a mannequin	Fluid and electrolyte balance
Pediatrics			
Pediatrics	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
Pediatrics	PE16.2	Assess children <2months using IMNCI Guidelines	Integrated Management of Neonatal and Childhood Illnesses (IMNCI) Guideline
Pediatrics	PE16.3	Assess children 2 months to 5 years using IMNCI guidelines and Stratify Risk	Integrated Management of Neonatal and Childhood Illnesses (IMNCI) Guideline
Pediatrics	PE16.4	Identify children with undernutrition as per IMNCI criteria and plan referral	Integrated Management of Neonatal and Childhood Illnesses (IMNCI) Guideline
Pediatrics	PE16.5	Identify and stratify risk in a sick neonate using IMNCI guidelines	Integrated Management of Neonatal and Childhood Illnesses (IMNCI) Guideline
Pediatrics	PE16.6	Apply the IMNCI guidelines in risk stratification of children with diarrheal dehydration and refer	Integrated Management of Neonatal and Childhood Illnesses (IMNCI) Guideline

Pediatrics	PE17.1	Describe 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 RCH, RMNCH A+, RBSK, RKSK, JSSK mission Indradhanush and ICDS	The National Health programs, NHM
Pediatrics			
Pediatrics	PE18.1	Explain the components of the Universal Immunization Program and the National Immunization Program	National Programs, RCH - Universal Immunizations program
Pediatrics	PE18.2	Explain the epidemiology of Vaccine preventable diseases	National Programs, RCH - Universal Immunizations program
Pediatrics	PE18.3	Describe Vaccine with regards to classification of vaccines, strain used, dose, route, schedule, risks, benefits and side effects, indications and Contraindications	National Programs, RCH - Universal Immunizations program
Pediatrics	PE18.4	Define cold-chain and discuss the methods of safe storage and handling of vaccines	National Programs, RCH - Universal Immunizations program
Pediatrics	PE18.5	Describe immunization in special situations – HIV positive children, immunodeficiency, pre-term, organ transplants, those who received blood and blood products, splenectomised children, adolescents, travelers	National Programs, RCH - Universal Immunizations program
Pediatrics	PE18.6	Assess patient for fitness for immunization and prescribe an age- appropriate immunization schedule	National Programs, RCH - Universal Immunizations program
Pediatrics	PE18.7	Educate and counsel apparent for immunization	National Programs, RCH - Universal Immunizations program
Pediatrics	PE18.8	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
Pediatrics			
Pediatrics	PE18.9	Observe the handling and storing of vaccines	National Programs, RCH - Universal Immunizations program

Pediatrics	PE18.10	Document Immunization in an immunization record	National Programs, RCH - Universal Immunizations program
Pediatrics	PE18.11	Observe the administration of UIP vaccines	National Programs, RCH - Universal Immunizations program
Pediatrics	PE18.12	Demonstrate the correct administration of different vaccines in a mannequin	National Programs, RCH - Universal Immunizations program
Pediatrics	PE18.13	Explain the term implied consent in Immunization services	National Programs, RCH - Universal Immunizations program
Pediatrics	PE18.14	Enumerate available newer vaccines and their indications including pentavalent pneumococcal, rotavirus, JE, Hepatitis A, Influenza, COVID, typhoid, IPV & HPV	National Programs, RCH - Universal Immunizations program
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Pediatrics	PE19.1	Define the common neonatal nomenclatures including the classification new born and describe the characteristics of a Normal Term Neonate and High-Risk Neonates, Explain the care of a normal neonate	Care of the Normal New born, and High risk New born

Pediatrics

Pediatrics PE19.2	Perform Neonatal resuscitation on a manikin	Care of the Normal New born, and High risk New born
Pediatrics PE19.3	Assessment of a normal neonate. 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

Pediatrics

Pediatrics PE19.4	Describe the etiology, clinical features and management of Birth asphyxia	Care of the Normal New born, and High risk New born
Pediatrics PE19.5	Describe 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
Pediatrics PE19.6	Explain the etiology, clinical features and management of Birth injuries	Care of the Normal New born, and High risk New born
Pediatrics PE19.7	Explain the etiology, clinical features and management of Hemorrhagic disease of Newborn	Care of the Normal New born, and High risk New born
Pediatrics PE19.8	Describe 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
Pediatrics PE19.9	Describe the temperature regulation in neonates, clinical features and management of Neonatal Hypothermia	Care of the Normal New born, and High risk New born
Pediatrics PE19.10	Describe the temperature regulation in neonates, clinical features and management of Neonatal Hypoglycemia	Care of the Normal New born, and High risk New born
Pediatrics PE19.11	Explain the etiology, clinical features and management of Neonatal hypocalcemia	Care of the Normal New born, and High risk New born
Pediatrics PE19.12	Describe the etiology, clinical features and management of Neonatal seizures	Care of the Normal New born, and High risk New born
Pediatrics PE19.13	Explain the etiology, clinical features and management of Neonatal Sepsis	Care of the Normal New born, and High risk New born
Pediatrics PE19.14	Describe the etiology, clinical features and management of Perinatal infections	Care of the Normal New born, and High risk New born
Pediatrics PE19.15	Describe the etiology, clinical features and management of Neonatal hyperbilirubinemia	Care of the Normal New born, and High risk New born

Pediatrics	PE19.16	Identify clinical presentations of common surgical conditions in the newborn 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
Pediatrics	PE19.17	Describe the risk factors, clinical features, diagnosis and management of Oxygen toxicity	Care of the Normal New born, and High risk New born
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Pediatrics	PE20.1	Enumerate the etio-pathogenesis, clinical features, complications and management of Urinary Tract infection in children	Genito-Urinary system
Pediatrics	PE20.2	Enumerate the etio-pathogenesis, clinical features, complications and management of Acute Post-Streptococcal Glomerulonephritis in Children	Genito-Urinary system
Pediatrics	PE20.3	Describe the approach and referral criteria to a child with Proteinuria	Genito-Urinary system
Pediatrics	PE20.4	Describe the approach and referral criteria to a child with Hematuria	Genito-Urinary system

Pediatrics	PE20.5	Enumerate the etio-pathogenesis, clinical features, complications and management of Acute Renal Failure in children	Genito-Urinary system
Pediatrics	PE20.6	Enumerate the etio-pathogenesis, clinical features, complications and management of Chronic Renal Failure in Children	Genito-Urinary system
Pediatrics	PE20.7	Enumerate the etio-pathogenesis, clinical features, complications and management of Wilms Tumor	Genito-Urinary system
Pediatrics	PE20.8	Perform and interpret the common analytes in a Urine examination	Genito-Urinary system
Pediatrics	PE20.9	Interpret report of Plain Xray of KUB	Genito-Urinary system
Pediatrics	PE21.1	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
Pediatrics			
Pediatrics	PE21.2	Describe the etiopathogenesis, diagnosis and management of Henoch Schoenlein Purpura.	Approach to and recognition of a child with possible Rheumatologic problem
Pediatrics	PE21.3	Describe the etiopathogenesis, diagnosis and management of Kawasaki Disease	Approach to and recognition of a child with possible Rheumatologic problem
Pediatrics	PE21.4	Describe the etiopathogenesis, diagnosis and management of SLE	Approach to and recognition of a child with possible Rheumatologic problem
Pediatrics	PE21.5	Describe the etiopathogenesis, diagnosis and management of JIA	Approach to and recognition of a child with possible Rheumatologic problem
Pediatrics			
Pediatrics	PE22.1	Describe the Hemodynamic changes, clinical presentation, complications and management of Acyanotic Heart Diseases	Cardiovascular system- Heart Diseases
Pediatrics	PE22.2	Describe the Hemodynamic changes, clinical presentation, complications and management of Cyanotic Heart Diseases	Cardiovascular system- Heart Diseases

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Pediatrics	PE22.3	Explain the etio-pathogenesis, clinical presentation and management of cardiac failure in infant and children	Cardiovascular system- Heart Diseases
Pediatrics	PE22.4	Explain the etio-pathogenesis, clinical presentation and management of Acute Rheumatic Fever in children	Cardiovascular system- Heart Diseases
Pediatrics	PE22.5	Describe the etio-pathogenesis, clinical features and management of Infective endocarditis in children	Cardiovascular system- Heart Diseases
Pediatrics	PE22.6	Describe the etiopathogenesis, grading, clinical features and management of hypertension in children	Cardiovascular system- Heart Diseases
Pediatrics	PE22.7	Record pulse, blood pressure, temperature and respiratory rate and interpret as per the age	Cardiovascular system- Heart Diseases
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Pediatrics	PE22.8	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
Pediatrics	PE22.9	Interpret a chest X-ray and recognize cardiomegaly	Cardiovascular system- Heart Diseases
Pediatrics	PE22.10	Interpret Pediatric ECG	Cardiovascular system- Heart Diseases
Pediatrics	PE22.11	Demonstrate empathy while dealing with children with cardiac diseases in every patient encounter	Cardiovascular system- Heart Diseases
Pediatrics	PE23.1	Define vomiting, discuss causes, evaluation & management of vomiting in children	GIT and Hepatobiliary system
Pediatrics	PE23.2	Define constipation discuss causes, evaluation & management of constipation in children	GIT and Hepatobiliary system
Pediatrics	PE23.3	Discuss the causes, evaluation and management of abdominal pain in children	GIT and Hepatobiliary system
Pediatrics	PE23.4	Define diarrhea (acute diarrhea, chronic diarrhea, persistent diarrhea). Discuss etiology, risk factors, clinical features, complications, investigations and treatment (according to WHO guidelines) of acute gastroenteritis.	GIT and Hepatobiliary system
Pediatrics			
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Pediatrics	PE23.5	Discuss the causes, clinical presentation and management of dysentery in children	GIT and Hepatobiliary system
Pediatrics	PE23.6	Discuss the physiological basis of ORT, types of ORS and the composition of various types of ORS. Discuss composition of fluids used in management of diarrhea. Discuss the role of antibiotics, antispasmodics, anti-secretory drugs, probiotics, anti-emetics in acute diarrheal diseases	GIT and Hepatobiliary system
Pediatrics			

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Pediatrics	PE23.7	Elicit history pertaining to diarrheal diseases. Assess for signs & symptoms of dehydration, shock, prerenal AKI, electrolyte disturbances, document and present.	GIT and Hepatobiliary system
Pediatrics			
Pediatrics	PE23.8	Perform and interpret stool examination including Hanging Drop, Interpret RFT and electrolyte report In the context of diarrhea	GIT and Hepatobiliary system
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Pediatrics	PE23.9	Perform NG tube insertion in a manikin	GIT and Hepatobiliary system
Pediatrics	PE23.10	Perform IV cannulation in a model	GIT and Hepatobiliary system
Pediatrics	PE23.11	Perform Interosseous insertion model	GIT and Hepatobiliary system
Pediatrics	PE23.12	Discuss the etio-pathogenesis, clinical presentation and management of Malabsorption in Children and its causes including celiac disease	GIT and Hepatobiliary system
Pediatrics	PE23.13	Discuss the etio-pathogenesis, clinical features and management of acute hepatitis in children	GIT and Hepatobiliary system
Pediatrics	PE23.14	Discuss the etio-pathogenesis, clinical features and management of Fulminant Hepatic Failure in children	GIT and Hepatobiliary system
Pediatrics	PE23.15	Discuss the etio-pathogenesis, clinical features and management of chronic liver diseases in children	GIT and Hepatobiliary system
Pediatrics	PE23.16	Discuss the etio-pathogenesis, clinical features and management of Portal Hypertension in children	GIT and Hepatobiliary system
Pediatrics	PE23.17	Elicit, document and present the history related to diseases of Gastrointestinal system	GIT and Hepatobiliary system
Pediatrics	PE23.18	Identify external markers for GI and Liver disorders e.g. Jaundice, Pallor, Gynecomastia, Spider angioma, Palmar erythema, Ichthyosis, Caput medusa, Clubbing, failing to thrive, Vitamin A and D deficiency	GIT and Hepatobiliary system

Pediatrics	PE23.19	Perform examination of the abdomen, demonstrate organomegaly, ascites etc.	GIT and Hepatobiliary system
Pediatrics	PE23.20	Interpret Liver Function Tests, viral markers, ultra-sonogram report	GIT and Hepatobiliary system
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Pediatrics	PE23.21	Enumerate the indications for Upper GI endoscopy	GIT and Hepatobiliary system
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Pediatrics	PE24.1	Describe the etio-pathogenesis, clinical approach and management of cardio-respiratory arrest in children	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.2	Describe the etio-pathogenesis and management of respiratory distress in children	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.3	Describe the etio-pathogenesis, clinical approach and management of Shock in children	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.4	Describe the etio-pathogenesis, clinical approach and management of Status epilepticus	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.5	Describe theetio-pathogenesis, clinical approach and management of an unconscious child	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.6	Explain oxygen therapy, in Pediatric emergencies and modes of administration	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.7	Observe the various methods of administering Oxygen	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.8	Assess airway and breathing: recognise signs of severe respiratory distress. Check for cyanosis, severe chest in drawing, Grunting	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.9	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

Pediatrics	PE24.10	Assess airway and breathing: administer oxygen using correct technique and appropriate flow rate	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.11	Assess airway and breathing perform assisted ventilation by Bag and mask in a simulated environment	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.12	Check for signs of shock i.e. pulse, Blood pressure, CRT	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.13	Secure an IV access in a simulated environment	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.14	Choose the type of fluid and calculate the fluid requirement in shock	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.15	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
Pediatrics	PE24.16	Assess for signs of severe dehydration	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.17	Monitoring and maintaining temperature: define hypothermia. Describe the clinical features, complications and management of Hypothermia	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.18	Describe the advantages and correct method of keeping an infant warm by skin- to- skin contact	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.19	Describe the environmental measures to maintain temperature	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.20	Assess for hypothermia and maintain temperature	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.21	Provide BLS for children in manikin	Pediatric Emergencies – Common Pediatric Emergencies
Pediatrics	PE24.22	Counsel parents of dangerously ill/ terminally ill child to break a bad news	Pediatric Emergencies – Common Pediatric Emergencies

Pediatrics	PE24.23	Obtain Informed Consent	Pediatric Emergencies – Common Pediatric Emergencies
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Pediatrics	PE25.1	Describe the etio-pathogenesis, clinical features and management of Acute Otitis Media (AOM)	Respiratory system
Pediatrics	PE25.2	Describe the etio-pathogenesis, clinical features and management of Epiglottitis	Respiratory system
Pediatrics	PE25.3	Explain the etio-pathogenesis, clinical features and management of Acute laryngo- tracheo-bronchitis	Respiratory system
Pediatrics	PE25.4	Describe the etiology, clinical features and management of Stridor in children	Respiratory system

Pediatrics	PE25.5	Describe the types, clinical presentation, and management of foreign body aspiration in infants and children	Respiratory system
Pediatrics	PE25.6	Describe the etio-pathogenesis, diagnosis, clinical features, management and prevention of lower respiratory infections including bronchiolitis, wheeze associated LRTI Pneumonia and empyema	Respiratory system
Pediatrics			
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Pediatrics	PE26.1	Explain the etio-pathogenesis, clinical features, classification and approach to a child with anaemia	Anemia and other Hemato-oncologic disorders in children
Pediatrics	PE26.2	Describe the etio-pathogenesis, clinical features and management of Iron Deficiency anaemia	Anemia and other Hemato-oncologic disorders in children
Pediatrics	PE26.3	Describe the etiopathogenesis, clinical features and management of VITB12, Folate deficiency anaemia	Anemia and other Hemato-oncologic disorders in children
Pediatrics	PE26.4	Explain 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
Pediatrics	PE26.5	Describe the National Anaemia Control Program	Anemia and other Hemato-oncologic disorders in children
Pediatrics	PE26.6	Describe 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
Pediatrics	PE26.7	Explain the etiology, classification, pathogenesis and clinical features of Hemophilia in children	Anemia and other Hemato-oncologic disorders in children

Pediatrics	PE26.8	Explain the etiology, clinical presentation and management of Acute Lymphoblastic Leukemia in children	Anemia and other Hemato-oncologic disorders in children
Pediatrics	PE26.9	Explain the etiology, clinical presentation and management of lymphoma in children	Anemia and other Hemato-oncologic disorders in children
Pediatrics	PE26.10	Perform examination of the abdomen, demonstrate organomegaly	Anemia and other Hemato-oncologic disorders in children
Pediatrics	PE26.11	Interpret CBC, LFT	Anemia and other Hemato-oncologic disorders in children
Pediatrics	PE26.12	Perform and interpret peripheral smear	Anemia and other Hemato-oncologic disorders in children
Pediatrics	PE26.13	Explain the indications for Hemoglobin electrophoresis and interpret report	Anemia and other Hemato-oncologic disorders in children
Pediatrics	PE26.14	Demonstrate, performance of bone marrow aspiration in manikin	Anemia and other Hemato-oncologic disorders in children
Pediatrics	PE26.15	Enumerate the referral criteria for Hematological conditions	Anemia and other Hemato-oncologic disorders in children
Pediatrics	PE26.16	Counsel and educate patients about prevention and treatment of anemia	Anemia and other Hemato-oncologic disorders in children
Pediatrics	PE26.17	Enumerate the indications for splenectomy and precautions	Anemia and other Hemato-oncologic disorders in children
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Pediatrics	PE27.1	Explain the etio-pathogenesis, clinical features, complications, management, and prevention of acute bacterial Meningitis in children	Systemic Pediatrics-Central Nervous system
Pediatrics	PE27.2	Describe the etio-pathogenesis, clinical features, complications, management and prevention of tuberculous meningitis	Systemic Pediatrics-Central Nervous system
Pediatrics	PE27.3	Distinguish bacterial, viral and tuberculous meningitis	Systemic Pediatrics-Central Nervous system
Pediatrics	PE27.4	Explain the etio-pathogenesis, classification, clinical features, complication and management of Hydrocephalus in children	Systemic Pediatrics-Central Nervous system
Pediatrics	PE27.5	Explain the etio-pathogenesis, clinical features, and management of Infantile hemiplegia	Systemic Pediatrics-Central Nervous system
Pediatrics	PE27.6	Explain the etio-pathogenesis, clinical features, complications and management of Febrile seizures in children	Systemic Pediatrics-Central Nervous system
Pediatrics	PE27.7	Define epilepsy. Discuss the pathogenesis, clinical types, presentation and management of Epilepsy in children	Systemic Pediatrics-Central Nervous system
Pediatrics	PE27.8	Define status Epilepticus. Discuss the clinical presentation and management	Systemic Pediatrics-Central Nervous system

Pediatrics	PE27.9	Describe the etio-pathogenesis, clinical features and management of Mental retardation in children	Systemic Pediatrics-Central Nervous system
Pediatrics	PE27.10	Describe the etio-pathogenesis, clinical features and management of children with cerebral palsy	Systemic Pediatrics-Central Nervous system
Pediatrics	PE27.11	Enumerate the causes of floppiness in an infant and discuss the clinical features, differential diagnosis and management	Systemic Pediatrics-Central Nervous system
Pediatrics	PE27.12	Explain the etio-pathogenesis, clinical features and management of Duchene muscular dystrophy	Systemic Pediatrics-Central Nervous system
Pediatrics	PE27.13	Interpret and explain the findings in a CSF analysis	Systemic Pediatrics-Central Nervous system
Pediatrics	PE27.14	Perform in a mannequin lumbar puncture. Discuss the indications, contraindication of the procedure	Systemic Pediatrics-Central Nervous system
Pediatrics			
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Pediatrics			
Pediatrics	PE28.1	Describe the etio-pathogenesis, clinical signs, management and prevention of Allergic Rhinitis in Children	Allergic Rhinitis, Atopic Dermatitis, Bronchial Asthma
Pediatrics			

Pediatrics	PE28.2	Explainthe etio-pathogenesis, clinical types, presentations, management and prevention of childhood Asthma	Allergic Rhinitis, Atopic Dermatitis, Bronchial Asthma
Pediatrics	PE28.3	Develop a treatment plan for Asthma appropriate to clinical presentation & severity	Allergic Rhinitis, Atopic Dermatitis, Bronchial Asthma
Pediatrics	PE28.4	Enumerate the indications for PFT	Allergic Rhinitis, Atopic Dermatitis, Bronchial Asthma
Pediatrics	PE28.5	Observe administration of Nebulization	Allergic Rhinitis, Atopic Dermatitis, Bronchial Asthma
Pediatrics			
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Pediatrics			
Pediatrics	PE29.1	Describe the genetic basis, risk factors, clinical features, complications, prenatal diagnosis, management and genetic counselling in Down Syndrome.	Chromosomal Abnormalities
Pediatrics	PE29.2	Interpret normal Karyotype and recognize Trisomy 21	Chromosomal Abnormalities
Pediatrics	PE29.3	Counsel parents regarding -1.Present child, 2.Risk in the next pregnancy	Chromosomal Abnormalities
Pediatrics			
Pediatrics	PE29.4	Describe the genetic basis, risk factors, clinical features, complications, prenatal diagnosis, management and genetic counselling in Turner’s Syndrome	Chromosomal Abnormalities

Pediatrics	PE29.5	Describe the genetic basis, risk factors, clinical features, complications, prenatal diagnosis, management and genetic counselling in Klinefelter Syndrome	Chromosomal Abnormalities
Pediatrics	PE30.1	Describe the etiology (congenital & acquired), clinical features, management of Hypothyroidism in children	Endocrinology
Pediatrics	PE30.2	Interpret and explain neonatal thyroid screening report	Endocrinology
Pediatrics	PE30.3	Describe the etiology, clinical types, clinical features, diagnostic criteria, complications and management of Diabetes mellitus in children	Endocrinology
Pediatrics			
Pediatrics			
Pediatrics	PE30.4	Recognize clinical features DKA, Perform and interpret Urine Dip Stick for Sugar & Ketone bodies & refer	Endocrinology
Pediatrics	PE30.5	Perform genital examination and recognize Ambiguous Genitalia, counsel and refer	Endocrinology
Pediatrics	PE30.6	Define precocious and delayed Puberty, Perform Sexual Maturity Rating (SMR), Recognize precocious and delayed Puberty and refer	Endocrinology
Pediatrics			
Pediatrics			
Pediatrics	PE30.7	Identify deviations in growth and plan appropriate referral	Endocrinology
Pediatrics			
Pediatrics			
Pediatrics			
Pediatrics	PE31.1	Describe the epidemiology, clinical features, clinical types, complications of Tuberculosis in Children and Adolescents	Vaccine preventable Diseases - Tuberculosis

Pediatrics	PE31.2	Describe the various diagnostic tools for childhood tuberculosis	Vaccine preventable Diseases - Tuberculosis
Pediatrics	PE31.3	Describe the various regimens for management of Tuberculosis as per National Guidelines	Vaccine preventable Diseases - Tuberculosis
Pediatrics	PE31.4	Describe the preventive strategies adopted and the objectives and outcome of the National Tuberculosis Control Program	Vaccine preventable Diseases - Tuberculosis
Pediatrics	PE31.5	Elicit, document and present history of contact with tuberculosis in every patient encounter, Identify BCG scar and interpret a Mantoux test.	Vaccine preventable Diseases - Tuberculosis
Pediatrics			
Pediatrics			
Pediatrics	PE31.6	Interpret blood tests in the context of laboratory evidence for tuberculosis	Vaccine preventable Diseases - Tuberculosis
Pediatrics	PE31.7	Describe the various samples for demonstrating the organism e.g. Gastric Aspirate, Sputum, CSF, FNAC	Vaccine preventable Diseases - Tuberculosis
Pediatrics	PE31.8	Enumeratethe indications, discuss the limitations of methods of culturing M. Tuberculosis and the newer diagnostic tools for Tuberculosis including BACTEC CBNAAT an-d their indications	Vaccine preventable Diseases - Tuberculosis
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Pediatrics	PE31.9	Enumerate the common causes of fever and describe the etiopathogenesis, clinical features, complications and management of fever in children	Vaccine preventable Diseases - Tuberculosis
Pediatrics	PE31.10	Enumerate the common causes of fever and describe the etiopathogenesis, clinical features, complications and management of child with exanthematous illnesses like Measles, Mumps, Rubella &Chicken pox	Vaccine preventable Diseases - Tuberculosis
Pediatrics	PE31.11	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
Pediatrics	PE31.12	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Typhoid	Vaccine preventable Diseases - Tuberculosis
Pediatrics	PE31.13	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Dengue, Chikungunya and other vector borne diseases	Vaccine preventable Diseases - Tuberculosis
Pediatrics	PE31.14	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
Pediatrics	PE32.1	Identify, Describe 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
Pathology	PA1.1	Describe the role of a pathologist in diagnosis and management of disease	Introduction to Pathology
Pathology	PA1.2	Enumerate common definitions and terms used in Pathology and Describe the history and evolution of Pathology	Introduction to Pathology

Pathology

Pathology	PA1.3	Describe proliferation and cell cycle and concept of regenerative medicine along with role of stem cells.	Introduction to Pathology
Pathology	PA2.1	Describe the causes, mechanisms, types and effects of cell injury and their clinical significance	Cell Injury and Adaptation
Pathology	PA2.2	Describe the etiology of cell injury. Distinguish between reversible- irreversible injury: mechanisms; morphology of cell injury	Cell Injury and Adaptation
Pathology	PA2.3	Describe morphological changes in intracellular accumulation of fats, proteins, carbohydrates, pigments	Cell Injury and Adaptation
Pathology	PA2.4	Describe and explain Cell death- types, mechanisms, necrosis, apoptosis (basic as contrasted with necrosis), autolysis	Cell Injury and Adaptation
Pathology	PA2.5	Describe types and pathology of calcifications and gangrene	Cell Injury and Adaptation
Pathology	PA2.6	Describe cellular adaptations: atrophy, metaplasia, dysplasia and carcinoma in situ	Cell Injury and Adaptation
Pathology	PA2.7	Describe the mechanisms of cellular aging and apoptosis	Cell Injury and Adaptation
Pathology	PA2.8	Identify and describe various forms of cell injuries with their manifestations and consequences in gross and microscopic specimens	Cell Injury and Adaptation
Pathology	PA3.1	Define and describe the general features of acute and chronic inflammation including stimuli, vascular and cellular events	Inflammation
Pathology	PA3.2	Enumerate and describe the mediators of acute inflammation	Inflammation
Pathology	PA3.3	Define and describe chronic inflammation including causes, types non-specific and granulomatous and enumerate examples of each	Inflammation
Pathology	PA3.4	Identify and describe acute and chronic inflammation in gross and microscopic specimens	Inflammation
Pathology	PA4.1	Define and describe the process of repair and regeneration including wound healing and its types	Healing and repair
Pathology	PA5.1	Define and describe edema, its types, pathogenesis and clinical correlations	Hemodynamic disorders

Pathology	PA5.2	Define and describe hyperemia, congestion, hemorrhage	Hemodynamic disorders
Pathology	PA5.3	Define and describe shock, its pathogenesis and its stage	Hemodynamic disorders
Pathology	PA5.4	Define and describe normal haemostasis and the etiopathogenesis and consequences of thrombosis	Hemodynamic disorders
Pathology	PA5.5	Define and describe Ischemia/infarction, embolism its types, etiology, morphologic changes and clinical effects	Hemodynamic disorders
Pathology			
Pathology	PA5.6	Identify and describe the gross and microscopic features of infarction in a pathologic specimen	Hemodynamic disorders
Pathology	PA6.1	Define and classify neoplasia. Describe the characteristics of neoplasia including gross, microscopy, Biological, behavior and spread. Differentiate between benign from malignant neoplasms	Neoplastic disorders
Pathology	PA6.2	Describe the molecular basis of cancer, role of genetic and epigenetic alterations with special emphasis on common cancers like breast/ colon	Neoplastic disorders
Pathology	PA6.3	Define and classify the carcinogens and describe the process of different types of carcinogenesis	Neoplastic disorders
Pathology	PA6.4	Describe the effects of tumor on the host including para neoplastic syndrome	Neoplastic disorders
Pathology	PA6.5	Describe laboratory diagnosis of cancer including molecular profiles of tumors, tumors markers and future of cancer diagnostics	Neoplastic disorders
Pathology	PA6.6	Describe immunology and the immune response to cancer with its clinical significance – Immunotherapy	Neoplastic disorders
Pathology	PA6.7	Identify and describe the gross and microscopic features of Benign and malignant neoplasm in a pathologic specimen	Neoplastic disorders
Pathology	PA7.1	Describe the techniques of cytology, staining & diagnostic role of cytology and its application in clinical care	Basic diagnostic cytology
Pathology			

Pathology			
Pathology	PA8.1	Describe the principles and mechanisms involved in immunity	Immunopathology and AIDS
Pathology	PA8.2	Describe the mechanism of hypersensitivity reaction	Immunopathology and AIDS
Pathology	PA8.3	Describe the HLA system and the immune principles involved in transplant and mechanism of transplant rejection	Immunopathology and AIDS
Pathology	PA8.4	Define autoimmunity. Enumerate autoimmune disorder and describe the pathogenesis of common autoimmune diseases	Immunopathology and AIDS
Pathology			
Pathology	PA8.5	Define and describe the pathogenesis of systemic Lupus Erythematosus	Immunopathology and AIDS
Pathology	PA8.6	Define and describe the pathogenesis and pathology of HIV and AIDS	Immunopathology and AIDS
Pathology	PA9.1	Describe the pathogenesis and pathology of amyloidosis	Amyloidosis
Pathology	PA9.2	Identify and describe various forms of amyloidosis with their manifestations and consequences in gross and microscopic specimens	Amyloidosis
Pathology	PA10.1	Define and describe the pathogenesis and pathology of malaria	Infections and Infestations
Pathology	PA10.2	Define and describe the pathogenesis and pathology of cysticercosis	Infections and Infestations
Pathology	PA10.3	Define and describe the pathogenesis and pathology of leprosy	Infections and Infestations
Pathology	PA10.4	Define and describe the pathogenesis and pathology of common bacterial, viral, protozoal and helminthic diseases	Infections and Infestations
Pathology	PA10.5	Define and describe the pathogenesis and pathology and laboratory findings in COVID	Infections and Infestations
Pathology	PA11.1	Describe the pathogenesis and features of common cytogenetic abnormalities and mutations in with diagnostic modalities in childhood	Genetic and pediatric diseases
Pathology	PA11.2	Describe the pathogenesis and pathology of tumor and tumor like conditions in infancy and childhood	Genetic and pediatric diseases
Pathology	PA11.3	Describe the pathogenesis of common storage disorders in infancy and childhood	Genetic and pediatric diseases

Pathology	PA12.1	Enumerate and describe the pathogenesis of disorders caused by air pollution, tobacco, alcohol and noise	Environmental and nutritional diseases
Pathology	PA12.2	Describe the pathogenesis of disorders caused by protein calorie malnutrition, vitamins and starvation	Environmental and nutritional diseases
Pathology	PA12.3	Describe the pathogenesis of obesity and its consequences with special emphasis on metabolic syndrome	Environmental and nutritional diseases
Pathology	PA13.1	Describe hematopoiesis and extra medullary hematopoiesis and the role of anticoagulants in hematology	Introduction to hematology
Pathology			
Pathology	PA13.2	Define and classify anemia Enumerate and describe the investigation of anemia	Introduction to hematology
Pathology			
Pathology	PA13.3	Describe collection of specimens and identify coagulants and anticoagulant bulbs, instruments	Introduction to hematology
Pathology	PA13.4	Perform common haematological tests – Hb, RBC count, WBC count and DLC	Introduction to hematology
Pathology			
Pathology	PA14.1	Describe iron metabolism and Describe the etiology, investigations and differential diagnosis of microcytic hypochromic anemia	Microcytic anemia
Pathology			
Pathology	PA14.2	Identify and describe the peripheral smear in microcytic Anemia	Microcytic anemia
Pathology	PA15.1	Describe the metabolism of Vitamin B12 and the etiology and pathogenesis of B12 deficiency and describe laboratory investigations of macrocytic anemia	Macrocytic anemia
Pathology			
Pathology	PA15.2	Enumerate the differences and describe the etiology, laboratory features of megaloblastic anemia and distinguishing features of megaloblastic and non-megaloblastic macrocytic anemia	Macrocytic anemia
Pathology	PA15.3	Identify and describe the peripheral blood picture of macrocytic Anemia	Macrocytic anemia

Pathology	PA16.1	Define and classify hemolytic anemia and describe the pathogenesis and clinical features and hematologic indices of hemolytic anemia	Hemolytic anemia
Pathology			
Pathology	PA16.2	Describe the pathogenesis, features, hematologic indices and peripheral blood picture of sickle cell anemia and thalassemia	Hemolytic anemia
Pathology	PA16.3	Describe the etiology, pathogenesis, hematologic indices and peripheral blood picture of Acquired hemolytic anemia and different hemolytic Anemia's	Hemolytic anemia
Pathology			
Pathology			
Pathology			
Pathology	PA17.1	Describe the etiology, pathogenesis and findings in aplastic Anemia and Enumerate the indications and describe the findings in bone marrow aspiration and biopsy	Aplastic anemia
Pathology			
Pathology	PA18.1	Enumerate and describe the causes of leukocytosis leucopenia lymphocytosis and leukemoid reactions	Leukocyte disorders
Pathology	PA18.2	Describe the etiology, genetics, pathogenesis classification, features, hematologic features of acute and chronic leukemia	Leukocyte disorders
Pathology	PA19.1	Enumerate the causes and describe the differentiating features of lymphadenopathy	Lymph node and spleen
Pathology	PA19.2	Describe the pathogenesis and pathology of tuberculous Lymphadenitis	Lymph node and spleen
Pathology	PA19.3	Describe and discuss the pathogenesis, pathology and the differentiating features of Hodgkin's and non-Hodgkin's lymphoma	Lymph node and spleen
Pathology	PA19.4	Enumerate and differentiate the causes of splenomegaly	Lymph node and spleen
Pathology	PA19.5	Identify and describe the features of tuberculous lymphadenitis in a gross and microscopic specimen	Lymph node and spleen
Pathology	PA19.6	Identify and describe the features of Hodgkin's lymphoma in a gross and microscopic specimen	Lymph node and spleen

Pathology			
Pathology			
Pathology	PA20.1	Describe normal hemostasis Classify and describe the etiology, pathogenesis and pathology of vascular and platelet disorders including ITP and hemophilia's	Hemorrhagic disorders
Pathology			
Pathology	PA20.2	Define and describe disseminated intravascular coagulation, its laboratory findings and diagnosis of disseminated intravascular coagulation and diagnosis of Vitamin K deficiency	Hemorrhagic disorders
Pathology			
Pathology	PA20.3	Define and describe its laboratory findings and diagnosis of Multiple Myeloma	Hemorrhagic disorders
Pathology	PA21.1	Classify and describe blood group systems (ABO and RH)	Blood banking and transfusion
Pathology	PA21.2	Enumerate blood components and describe their clinical uses	Blood banking and transfusion
Pathology	PA21.3	Enumerate and describe infections transmitted by blood transfusion	Blood banking and transfusion
Pathology	PA21.4	Describe transfusion reactions and enumerate investigation of a transfusion reaction	Blood banking and transfusion
Pathology	PA21.5	Enumerate the indications and describe the principles and procedure of autologous transfusion	Blood banking and transfusion
Pathology	PA21.6	Describe the correct technique to perform blood grouping Describe the correct technique to perform a cross match	Blood banking and transfusion
Pathology			
Pathology	PA22.1	Describe abnormal urinary findings in disease states and identify and describe common urinary abnormalities in a clinical specimen	Clinical Pathology
Pathology	PA22.2	Describe abnormal findings in body fluids in various disease states	Clinical Pathology

Pathology	PA22.3	Describe and interpret the abnormalities in a panel containing semen analysis, thyroid function tests.	Clinical Pathology
Pathology	PA22.4	Describe and interpret the abnormalities in a panel containing liver function tests	Clinical Pathology
Pathology	PA22.5	Describe and interpret the abnormalities in a panel containing, renal function tests	Clinical Pathology
Pathology	PA23.1	Describe the etiology, pathogenesis, pathology and clinical features of oral cancers	Gastrointestinal tract
Pathology	PA23.2	Describe the etiology, pathogenesis, pathology, microbiology, clinical and microscopic features of carcinoma esophagus	Gastrointestinal tract
Pathology	PA23.3	Describe the etiology, pathogenesis, pathology, microbiology, clinical and microscopic features of peptic ulcer disease	Gastrointestinal tract
Pathology			
Pathology	PA23.4	Describe and etiology and pathogenesis and pathologic features of carcinoma of the stomach	Gastrointestinal tract
Pathology	PA23.5	Describe and etiology and pathogenesis and pathologic features of Tuberculosis of the intestine and appendicitis.	Gastrointestinal tract
Pathology	PA23.6	Describe and etiology and pathogenesis and pathologic and distinguishing features of Inflammatory bowel disease	Gastrointestinal tract
Pathology	PA23.7	Enumerate causes and describe laboratory diagnosis of malabsorption syndrome	Gastrointestinal tract
Pathology	PA23.8	Describe the etiology, pathogenesis, pathology and distinguishing features of carcinoma of the colon	Gastrointestinal tract
Pathology	PA23.9	Describe and identify the microscopic features of peptic ulcer ,intestinal ulcers and tumours of GIT	Gastrointestinal tract
Pathology	PA24.1	Describe Bilirubin metabolism, enumerate the etiology and pathogenesis of jaundice, distinguish between direct and indirect hyper Bilirubinemia	Hepatobiliary system
Pathology	PA24.2	Describe the pathophysiology and pathologic changes seen in hepatic failure and their clinical manifestations, complications and consequences	Hepatobiliary system

Pathology	PA24.3	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	Hepatobiliary system
Pathology	PA24.4	Describe the pathophysiology, pathology and progression of alcoholic liver disease including cirrhosis	Hepatobiliary system
Pathology	PA24.5	Describe the etiology, pathogenesis and complications of portal hypertension	Hepatobiliary system
Pathology	PA24.6	Interpret liver function and viral hepatitis serology panel. Distinguish obstructive from non-obstructive jaundice based on clinical features and liver function tests	Hepatobiliary system
Pathology	PA24.7	Define and describe the etiology, types, pathogenesis, morphology and complications of Hepatocellular Carcinoma	Hepatobiliary system
Pathology	PA24.8	Describe the pathophysiology, pathology and complications of acute cholecystitis and Cholelithiasis	Hepatobiliary system
Pathology	PA24.9	Describe and identify the microscopic features of liver diseases and tumors	Hepatobiliary system
Pathology	PA25.1	Define and describe the etiology, types, pathogenesis, stages, morphology and complications of pneumonia	Respiratory system
Pathology	PA25.2	Describe the etiology, gross complications of lung abscess	Respiratory system
Pathology	PA25.3	Define and describe the etiology, types, pathogenesis, stages morphology and complications and evaluation of Obstructive airway disease (OAD) and bronchiectasis	Respiratory system
Pathology	PA25.4	Define and describe the etiology, types, pathogenesis, stages, morphology microscopic appearance and complications of tuberculosis	Respiratory system
Pathology	PA25.5	Define and describe the etiology, types, exposure, environmenta influence, pathogenesis, stages, morphology, microscopic appearance and complications of Occupational lung disease	Respiratory system
Pathology	PA25.6	Define and describe the etiology, types, exposure, genetic environmental influence, pathogenesis, stages, morphology, microscopic appearance, metastases and complications of tumors of the lung and pleura including mesothelioma	Respiratory system

Pathology

Pathology	PA25.7	Identify and describe the features of diseases and tumors of lung in a gross and microscopic specimen	Respiratory system
Pathology	PA26.1	Distinguish arteriosclerosis from atherosclerosis. Describe the pathogenesis and pathology of various causes and types of atherosclerosis	Cardiovascular system
Pathology	PA26.10	Describe the etiology, pathophysiology, pathology complications of tumors of cardiovascular system.	Cardiovascular system
Pathology	PA26.2	Describe the etiology, dynamics, pathology types and complications of aneurysms including aortic aneurysms	Cardiovascular system
Pathology	PA26.3	Describe the etiology, types, stages pathophysiology, pathology and complications of heart failure	Cardiovascular system
Pathology	PA26.4	Describe the etiology, pathophysiology, pathology, gross and, complications of Congenital heart disease	Cardiovascular system
Pathology	PA26.5	Describe the etiology, pathophysiology, pathology, gross and microscopic features, criteria and complications of rheumatic fever	Cardiovascular system
Pathology	PA26.6	Describe the epidemiology, risk factors, etiology, pathophysiology, pathology, presentations, gross and microscopic features, diagnostic tests and complications of ischemic heart disease and Interpret abnormalities in cardiac function testing in acute coronary syndromes	Cardiovascular system

Pathology

Pathology	PA26.7	Describe the etiology, pathophysiology, pathology, gross and microscopic features, diagnosis and complications of infective endocarditis	Cardiovascular system
Pathology	PA26.8	Describe the etiology, pathophysiology, pathology, gross and microscopic features, diagnosis and complications of pericarditis and pericardial effusion	Cardiovascular system
Pathology	PA26.9	Classify and describe the etiology, types, pathophysiology, pathology, gross and microscopic features, diagnosis and complications of cardiomyopathies	Cardiovascular system

Pathology	PA27.1	Describe the normal histology of the kidney	Urinary Tract
Pathology	PA27.10	Describe the etiology, pathogenesis, pathology, laboratory findings, distinguishing features progression and complications of acute and chronic pyelonephritis and reflux nephropathy	Urinary Tract
Pathology	PA27.11	Define classify and describe the etiology, pathogenesis pathology, laboratory, urinary findings, distinguishing features progression and complications of vascular disease of the kidney	Urinary Tract
Pathology	PA27.12	Define classify and describe the genetics, inheritance, etiology, pathogenesis, pathology, laboratory, urinary findings, distinguishing features, progression and complications of cystic disease of the kidney	Urinary Tract
Pathology	PA27.13	Define classify and describe the etiology, pathogenesis, pathology, laboratory, urinary findings, distinguishing features progression and complications of renal stone disease and obstructive uropathy	Urinary Tract
Pathology	PA27.14	Classify and describe the etiology, genetics, pathogenesis, pathology, presenting features, progression and spread of renal tumors	Urinary Tract
Pathology	PA27.15	Describe the etiology, genetics, pathogenesis, pathology, presenting features and progression of thrombotic angiopathies	Urinary Tract
Pathology	PA27.16	Describe the etiology, genetics, pathogenesis, pathology, presenting features and progression of urothelial tumors	Urinary Tract
Pathology	PA27.17	Identify and describe the features of kidney diseases and tumors in a gross and microscopic specimen	Urinary Tract
Pathology	PA27.2	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
Pathology	PA27.3	Define and describe the etiology, precipitating factors, pathogenesis, pathology, laboratory urinary findings, progression and complications of acute renal failure	Urinary Tract

Pathology	PA27.4	Define and describe the etiology, precipitating factors, pathogenesis, pathology, laboratory urinary findings progression and complications of chronic renal failure	Urinary Tract
Pathology	PA27.5	Define and classify glomerular diseases. Enumerate and describe the etiology, pathogenesis, mechanisms of glomerular injury, pathology, distinguishing features and clinical manifestations of glomerulonephritis	Urinary Tract
Pathology	PA27.6	Define and describe the etiology, pathogenesis, pathology, laboratory, urinary findings, progression and complications of IgA nephropathy	Urinary Tract
Pathology	PA27.7	Enumerate and describe the findings in glomerular manifestations of systemic disease	Urinary Tract
Pathology	PA27.8	Enumerate and classify diseases affecting the tubular Interstitium	Urinary Tract
Pathology	PA27.9	Define and describe the etiology, pathogenesis, pathology, laboratory, urinary findings, progression and complications of acute tubular necrosis	Urinary Tract
Pathology			
Pathology	PA28.1	Classify testicular tumors and describe the pathogenesis, pathology, presenting and distinguishing features, diagnostic tests, progression and spread of testicular tumors	Male Genital Tract
Pathology	PA28.2	Describe the pathogenesis, pathology, presenting and distinguishing features, diagnostic tests, progression and spread of carcinoma of the penis	Male Genital Tract
Pathology	PA28.3	Describe the pathogenesis, pathology, hormonal dependency presenting and distinguishing features, urologic findings & diagnostic tests of benign prostatic hyperplasia	Male Genital Tract
Pathology	PA28.4	Describe the pathogenesis, pathology, hormonal dependency presenting and distinguishing features, diagnostic tests, progression and spread of carcinoma of the prostate	Male Genital Tract
Pathology	PA28.5	Describe the etiology, pathogenesis, pathology and progression of prostatitis	Male Genital Tract

Pathology	PA28.6	Describe and identify the morphologic and microscopic features of diseases and tumors of male genital tract	Male Genital Tract
Pathology	PA29.1	Describe the epidemiology, pathogenesis, etiology, pathology, screening, diagnosis and progression of carcinoma of the cervix	Female Genital Tract
Pathology	PA29.10	Describe and identify the morphologic and microscopic features of diseases and tumors of female genital tract	Female Genital Tract
Pathology	PA29.2	Describe the pathogenesis, etiology, pathology, diagnosis and progression and spread of carcinoma of the endometrium	Female Genital Tract
Pathology	PA29.3	Describe the pathogenesis, etiology, pathology, diagnosis and progression and spread of carcinoma of the leiomyoma and leiomyosarcomas	Female Genital Tract
Pathology	PA29.4	Classify and describe the etiology, pathogenesis, pathology, morphology, clinical course, spread and complications of ovarian tumors	Female Genital Tract
Pathology	PA29.5	Describe the etiology, pathogenesis, pathology, morphology, clinical course, spread and complications of gestational trophoblastic neoplasms	Female Genital Tract
Pathology	PA29.6	Describe the etiology and morphologic features of cervicitis	Female Genital Tract
Pathology	PA29.7	Describe the etiology, hormonal dependence, features and morphology of endometriosis	Female Genital Tract
Pathology	PA29.8	Describe the etiology and morphologic features of adenomyosis	Female Genital Tract
Pathology	PA29.9	Describe the etiology, hormonal dependence and morphology of endometrial hyperplasia	Female Genital Tract
Pathology	PA30.1	Classify and describe the types, etiology, pathogenesis, hormonal dependency of breast pathology and benign disease	Breast
Pathology	PA30.2	Classify and describe the epidemiology, pathogenesis, classification, morphologic and microscopic features, prognostic factors, hormonal dependency, staging and spread of carcinoma of the breast	Breast
Pathology			
Pathology	PA30.3	Describe and identify the morphologic and microscopic features of Phyllodes tumor of the breast	Breast
Pathology	PA30.4	Enumerate and describe the etiology, hormonal dependency and pathogenesis of Gynaecomastia	Breast

Pathology	PA30.5	Describe and identify the morphologic and microscopic features of benign and malignant tumors of the breast	Breast
Pathology	PA31.1	Enumerate, classify and describe the etiology, pathogenesis, pathology and iodine dependency of thyroid swellings	Endocrine system
Pathology	PA31.10	Describe the etiology, pathogenesis, manifestations, laboratory and morphologic features of adrenal neoplasms	Endocrine system
Pathology	PA31.2	Describe the etiology, cause, iodine dependency, pathogenesis, manifestations, laboratory and imaging features and course of thyrotoxicosis	Endocrine system
Pathology	PA31.3	Describe the etiology, pathogenesis, manifestations, laboratory and imaging features and course of thyrotoxicosis/ hypothyroidism	Endocrine system
Pathology	PA31.4	Classify and describe the epidemiology, etiology, pathogenesis, pathology, clinical laboratory features & complications of Thyroid tumors	Endocrine system
Pathology	PA31.5	Classify and describe the epidemiology, etiology, pathogenesis, pathology, clinical laboratory features, complications and progression of diabetes mellitus	Endocrine system
Pathology	PA31.6	Describe the etiology, genetics, pathogenesis, manifestations, laboratory and morphologic features of hyperparathyroidism	Endocrine system
Pathology	PA31.7	Describe the etiology, pathogenesis, manifestations, laboratory, morphologic features, complications and metastases of pancreatic cancer	Endocrine system
Pathology	PA31.8	Describe the etiology, pathogenesis, manifestations, laboratory, morphologic features, complications of adrenal insufficiency	Endocrine system
Pathology	PA31.9	Describe the etiology, pathogenesis, manifestations, laboratory, morphologic features, complications of Cushing's syndrome	Endocrine system
Pathology	PA32.1	Classify and describe the etiology, pathogenesis, manifestations, radiologic and morphologic features and complications of osteomyelitis	Bone and soft tissue
Pathology	PA32.2	Classify and describe the etiology, pathogenesis, manifestations, radiologic and morphologic features and complications and metastases of bone tumors	Bone and soft tissue

Pathology	PA32.3	Classify and describe the etiology, pathogenesis, manifestations, radiologic and morphologic features and complications and metastases of soft tissue tumors	Bone and soft tissue
Pathology	PA32.4	Classify and describe the etiology, pathogenesis, manifestations, radiologic and morphologic features and complications of Paget's disease of the bone	Bone and soft tissue
Pathology	PA32.5	Classify and describe the etiology, immunology, pathogenesis, manifestations, radiologic and laboratory features, diagnostic criteria and complications of rheumatoid arthritis	Bone and soft tissue
Pathology	PA32.6	Classify and describe the etiology, pathogenesis, manifestations, radiologic and laboratory features, diagnostic criteria and complications of Osteo arthritis and Gouty arthritis	Bone and soft tissue
Pathology	PA32.7	Describe and identify the morphologic and microscopic features of diseases and tumors of bone	Bone and soft tissue
Pathology	PA33.1	Describe the risk factors pathogenesis, pathology and natural history of squamous cell carcinoma of the skin	Skin
Pathology	PA33.2	Describe the risk factors pathogenesis, pathology and natural history of basal cell carcinoma of the skin	Skin
Pathology	PA33.3	Describe the distinguishing features between a nevus and melanoma. Describe the etiology, pathogenesis, risk factors morphology clinical features and metastases of melanoma	Skin
Pathology	PA33.4	Identify, distinguish and describe common tumors of the skin	Skin
Pathology	PA34.1	Describe the etiology, types and pathogenesis, differentiating factors, CSF findings in meningitis	Central Nervous System
Pathology	PA34.2	Classify and describe the etiology, genetics, pathogenesis, pathology, presentation sequelae and complications of CNS tumors	Central Nervous System
Pathology	PA34.3	Identify the etiology of meningitis based on given CSF parameters	Central Nervous System
Pathology	PA35.1	Describe the etiology, genetics, pathogenesis, pathology, presentation, sequelae and complications of retinoblastoma	Eye
Anesthesiology	AS1.1	Describe the evolution of Anaesthesiology as a modern specialty	Anaesthesiology as a specialty

Anesthesiology	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
Anesthesiology	AS1.3	Enumerate and describe the principle of ethics as it relates to Anaesthesiology	Anaesthesiology as a specialty
Anesthesiology	AS1.4	Describe the prospects of Anaesthesiology as a career	Anaesthesiology as a specialty
Anesthesiology	AS2.1	Enumerate the indications, describe the steps and demonstrate in a simulated environment, Basic Life Support in adults, children and neonates	Cardiopulmonary resuscitation
Anesthesiology	AS2.2	Enumerate the indications, describe the steps and demonstrate in a simulated environment, Advanced Life Support in adults and children	Cardiopulmonary resuscitation
Anesthesiology	AS3.1	Describe the principles of preoperative evaluation	Preoperative evaluation and medication
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	Preoperative evaluation and medication
Anesthesiology	AS3.3	Demonstrate and document an appropriate clinical examination in a patient undergoing General Surgery	Preoperative evaluation and medication
Anesthesiology	AS3.4	Choose and interpret appropriate testing for patients undergoing Surgery	Preoperative evaluation and medication
Anesthesiology	AS3.5	Determine the readiness for General Surgery in a patient based on the preoperative evaluation	Preoperative evaluation and medication
Anesthesiology	AS3.6	Choose and write a prescription for appropriate premedications for patients undergoing surgery	Preoperative evaluation and medication
Anesthesiology	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
Anesthesiology	AS4.2	Describe the anatomy of the airway and its implications for general Anaesthesia	General Anaesthesia
Anesthesiology	AS4.3	Observe and describe the principles and the practical aspects of induction and maintenance of anesthesia	General Anaesthesia

Anesthesiology	AS4.4	Observe and describe the principles and the steps/ techniques in maintenance of vital organ functions in patients undergoing surgical competencies	General Anaesthesia
Anesthesiology	AS4.5	Observe and describe the principles and the steps/ techniques in monitoring patients during anaesthesia	General Anaesthesia
Anesthesiology	AS4.6	Observe and describe the principles and the steps/ techniques involved in day care anesthesia	General Anaesthesia
Anesthesiology	AS4.7	Observe and describe the principles and the steps/ techniques involved in anaesthesia outside the operating room	General Anaesthesia
Anesthesiology	AS5.1	Enumerate the indications for and describe the principles of regional anaesthesia (including spinal, epidural and combined)	Regional anaesthesia
Anesthesiology	AS5.2	Describe the correlative anatomy of the brachial plexus, subarachnoid and epidural spaces	Regional anaesthesia
Anesthesiology	AS5.3	Observe and describe the principles and steps/ techniques involved in peripheral nerve blocks	Regional anaesthesia
Anesthesiology	ASS.4	Observe and describe the pharmacology and correct use of commonly used drugs and adjuvant agents in regional anesthesia	Regional anaesthesia
Anesthesiology	AS5.5	Observe and describe the principles and steps/ techniques involved in caudal epidural in adults and children	Regional anaesthesia
Anesthesiology	AS5.6	Observe and describe the principles and steps/ techniques involved in common blocks used in surgery (including brachial plexus blocks)	Regional anaesthesia
Anesthesiology	AS6.1	Describe the principles of monitoring and resuscitation in the recovery room	Post-anaesthesia recovery
Anesthesiology	AS6.2	Observe and enumerate the contents of the crash cart and describe the equipment used in the recovery room	Post-anaesthesia recovery
Anesthesiology	AS6.3	Describe the common complications encountered by patients in the recovery room, their recognition and principles of management	Post-anaesthesia recovery
Anesthesiology	AS7.1	Visit, enumerate and describe the functions of an Intensive Care Unit	Intensive Care Management
Anesthesiology	AS7.2	Enumerate and describe the criteria for admission and discharge of a patient to an ICU	Intensive Care Management
Anesthesiology	AS7.3	Observe and describe the management of an unconscious patient	Intensive Care Management

Anesthesiology	AS7.4	Observe and describe the basic setup process of a ventilator	Intensive Care Management
Anesthesiology	AS7.5	Observe and describe the principles of monitoring in an ICU	Intensive Care Management
Anesthesiology	AS8.1	Describe the anatomical correlates and physiologic principles of Pain	Pain and its management
Anesthesiology	AS8.2	Elicit and determine the level, quality and quantity of pain and its tolerance in patient or surrogate	Pain and its management
Anesthesiology	AS8.3	Describe the pharmacology and use of drugs in the management of pain	Pain and its management
Anesthesiology	AS8.4	Describe the principles of pain management in palliative care	Pain and its management
Anesthesiology	AS8.5	Describe the principles of pain management in the terminally ill	Pain and its management
Anesthesiology	AS9.1	Establish intravenous access in a simulated environment	Fluids
Anesthesiology	AS9.2	Establish central venous access in a simulated environment	Fluids
Anesthesiology	AS9.3	Describe the principles of fluid therapy in the preoperative period	Fluids
Anesthesiology	AS9.4	Enumerate blood products and describe the use of blood products in the preoperative period	Fluids
Anesthesiology	AS10.1	Enumerate the hazards of incorrect patient positioning	Patient safety
Anesthesiology	AS10.2	Enumerate the hazards encountered in the perioperative period and steps/techniques taken to prevent them	Patient safety
Anesthesiology	AS10.3	Describe the role of communication in patient safety	Patient safety
Anesthesiology	AS10.4	Define and describe common medical and medication errors in anaesthesia	Patient safety
Anesthesiology	AS11.1	Describe oxygen delivery devices - nasal cannulas, simple face masks, Venturi masks non-rebreathing masks, BVM, and HFNC. Understand the indications in accordance with clinical scenarios. Demonstrate correct setup and usage of oxygen delivery devices ensuring patient safety and device efficiency.	Oxygen Delivery Devices, Oxygen Therapy and Airway Management
Anesthesiology	AS11.2	Describe the principles of oxygen therapy, importance of FiO2, flow rate adjustment, monitoring and safety precautions during oxygen therapy.	Oxygen Delivery Devices, Oxygen Therapy and Airway Management

Anesthesiology	AS11.3	Describe and demonstrate the techniques of opening the airway (head tilt, chin lift, jaw thrust) in a simulated environment.	Oxygen Delivery Devices, Oxygen Therapy and Airway Management
Anesthesiology	AS11.4	Observe and demonstrate correct insertion of oropharyngeal and nasopharyngeal airways.	Oxygen Delivery Devices, Oxygen Therapy and Airway Management
Anesthesiology	AS11.5	Enumerate the indications of advanced airway management. Describe the steps and demonstrate in a simulated environment - manual ventilation by BVM, Endotracheal intubation, and LMA insertion.	Oxygen Delivery Devices, Oxygen Therapy and Airway Management
Anesthesiology	AS11.6	Ventilation Techniques Explain the principle and settings of mechanical ventilation.	Oxygen Delivery Devices, Oxygen Therapy and Airway Management
Ophthalmology	OP1.1	Describe the physiology of vision, optics of eye and anatomy of visual pathway.	Visual Acuity Assessment
Ophthalmology	OP1.2	Define,classify and describe the types and methods of correcting refractive errors.	Visual Acuity Assessment
Ophthalmology	OP1.3	Demonstrate the steps in performing the visual acuity assessment for distance vision ,near vision, colour vision,the pinhole test and the menace and blink reflexes	Visual Acuity Assessment
Ophthalmology	OP1.4	Enumerate the indications and describe the principlesofrefractive surgery	Visual Acuity Assessment
Ophthalmology	OP1.5	Define Amblyopia, enumerate the types of Amblyopia and describe the prevention and treatment of refractive Amblyopia.	Visual Acuity Assessment
Ophthalmology	OP2.1	Describe and discuss the aetiology and clinical features, investigations and treatment of Hordeolum externum, Hordeolum internum, Ectropion, Entropion, Lagophthalmos, Blepharitis, Preseptal cellulitis.	Lids and Adnexa, Orbit
Ophthalmology			
Ophthalmology	OP2.2	Demonstrate under supervision, the clinical procedure performed- Bell's phenomenon, Ptosis evaluation, Massage technique in Congenital Dacryocystitis, Epilation.	Lids and Adnexa, Orbit

Ophthalmology	OP2.3	Describe the aetiology, clinical presentation, complications and management of Thyroid eye disease	Lids and Adnexa, Orbit
Ophthalmology	OP2.4	Describe the aetiology, clinical presentation. Discuss the complications and management of orbital cellulitis	Lids and Adnexa, Orbit
Ophthalmology	OP2.5	Describe the clinical features of ocular examination and management of a patient with cavernous sinus thrombosis	Lids and Adnexa, Orbit
Ophthalmology	OP2.6	Enumerate the causes and describe the differentiating features, and clinical features and management of proptosis	Lids and Adnexa, Orbit
Ophthalmology	OP2.7	Classification and clinical presentation of various types of orbital tumours	Lids and Adnexa, Orbit
Ophthalmology	OP2.8	Describe the investigations, management, indications for referral of Orbital tumours.	Lids and Adnexa, Orbit
Ophthalmology	OP3.1	Demonstrate history taking in a patient with ‘Red eye’, Enumerate the causes for red eye.	Conjunctiva
Ophthalmology			
Ophthalmology	OP3.2	Describe the etiopathogenesis, clinical features and treatment of acute bacterial and viral conjunctivitis. Enumerate the causes for chronic conjunctivitis.	Conjunctiva
Ophthalmology	OP3.3	Describe the aetiology, pathophysiology, ocular features, differential diagnosis, complications and management of trachoma.	Conjunctiva
Ophthalmology	OP3.4	Enumerate the causes for allergic conjunctivitis. Describe the aetiology pathophysiology, ocular features, complications and management of vernal catarrh.	Conjunctiva
Ophthalmology	OP3.5	Describe the aetiology, pathophysiology, ocular features, differential diagnosis, complicationsand management of pterygium	Conjunctiva
Ophthalmology			

Ophthalmology	OP3.6	Demonstrate correct technique of removal of foreign body from the eye in a simulated environment	Conjunctiva
Ophthalmology	OP3.7	Demonstrate under supervision the technique of instillation of eye drops and counselling of patients you put on topical ocular medications	Conjunctiva
Ophthalmology	OP4.1	Describe the applied anatomy and physiology of cornea and the factors maintaining corneal transparency	Corneas
Ophthalmology	OP4.2	Enumerate various congenital anomalies and inflammations of cornea.	Corneas
Ophthalmology	OP4.3	Enumerate the differential diagnosis of corneal ulcer (infective Keratitis) and describe the aetiopathogenesis, clinical features and management of each type of infective keratitis.	Corneas
Ophthalmology			
Ophthalmology	OP4.4	Identify corneal opacity and different grades of corneal opacity. Enumerate various management modalities of corneal opacity.	Corneas
Ophthalmology			
Ophthalmology	OP4.5	Describe tear film. Enumerate the causes of dry eyes and describe the clinical features and management of dry eyes	Corneas
Ophthalmology	OP4.6	Define blindness. Enumerate the causes of corneal blindness	Corneas
Ophthalmology	OP4.7	Enumerate the types and the indications of Keratoplasty.	Corneas
Ophthalmology			
Ophthalmology	OP4.9	Identify corneal foreign body and demonstrate techniques of removal of corneal foreign body in simulated environment.	Corneas
Ophthalmology	OP4.8	Describe the importance of eye donation and eye banking and enumerate the various protocols involved in eye donation and eye banking.	Corneas
Ophthalmology	OP4.10	Counsel patients and family in a simulated environment about eye donation and teach them how to preserve the eye in the deceased till enucleation is done.	Corneas
Ophthalmology	OP5.1	Describe the etiopathogenesis, classification, clinical features, complications and management of episcleritis.	Sclera

Ophthalmology	OP5.2	Enumerate the systemic conditions associated with episcleritis and scleritis, indications for their referral.	Sclera
Ophthalmology	OP6.1	Define Uveitis. Describe the anatomical classification of Uveitis. Describe the clinical features of Iridocyclitis. Distinguish granulomatous iridocyclitis from non-granulomatous iridocyclitis.	Iris and Anterior chamber
Ophthalmology			
Ophthalmology			
Ophthalmology	OP6.2	Describe the complication of iridocyclitis, investigations and treatment of iridocyclitis.	Iris and Anterior chamber
Ophthalmology	OP6.3	Distinguish Hyphema from Hypopyon clinically and enumerate their causes.	Iris and Anterior chamber
Ophthalmology	OP6.4	Enumerate systemic conditions associated with Uveitis. Counsel the patients with uveitis in a simulated environment	Iris and Anterior chamber
Ophthalmology			
Ophthalmology			
Ophthalmology			
Ophthalmology			
Ophthalmology			
Ophthalmology			
Ophthalmology			
Ophthalmology	OP7.1	Describe the etiopathogenesis , clinical features and management of congenital glaucoma.	Glaucoma

Ophthalmology	OP7.2	Describe the etiopathogenesis, clinical features and management of primary open angle glaucoma.	Glaucoma
Ophthalmology	OP7.3	Describe the etiopathogenesis, clinical features and management of primary angle closure glaucoma.	Glaucoma
Ophthalmology	OP7.4	Enumerate the causes of secondary glaucoma.	Glaucoma
Ophthalmology	OP7.5	Counsel the patient with glaucoma regarding the treatment modalities complications with treatment and prognosis in a simulated environment.	Glaucoma
Ophthalmology	OP8.1	Describe the surgical anatomy of lens	Lens
Ophthalmology	OP8.2	Describe the etiopathogenesis, etiological classification, stages of maturation and complications of cataract.	Lens
Ophthalmology	OP8.3	Demonstrate the pre operative evaluation and counselling of a patient posted for cataract surgery.	Lens
Ophthalmology	OP8.4	Enumerate the different types of cataract surgery. Enumerate the different ocular anaesthesia techniques. Describe the steps of extra capsular cataract surgery, enumerate the intra operative and post operative complications of ECCE, discuss the post operative treatment.	Lens
Ophthalmology	OP8.5	Elicit history and clinical signs in a case of aphakia. Discuss the management of aphakia	Lens
Ophthalmology	OP8.6	Participation of IMG in the team for cataract surgery	Lens
Ophthalmology	OP9.1	Demonstrate the technique of direct and indirect ophthalmoscopy. Describe the fundoscopic features of normal retina.	Retina & optic Nerve
Ophthalmology	OP9.2	Describe the etiopathogenesis, clinical features, management and screening protocol for Diabetic Retinopathy.	Retina & optic Nerve
Ophthalmology	OP9.3	Discuss the etiopathogenesis, clinical features and management of vascular occlusions of retina.	Retina & optic Nerve

Ophthalmology	OP9.4	Discuss the etiopathogenesis, clinical features and management of Hypertensive retinopathy, retinopathy of prematurity, Eales disease , retinal detachment, central serous retinopathy, cystoid macular edema, age related macular degeneration, retinitis pigmentosa and Retinoblastoma.	Retina & optic Nerve
Ophthalmology			
Ophthalmology			
Ophthalmology	OP9.5	Describe and discuss the correlative anatomy, aetiology, clinical manifestations, diagnostic tests, imaging and treatment of diseases of the optic nerve and visual pathway	Retina & optic Nerve
Ophthalmology	OP10.1	Demonstrate the correct technique to examine extraocular movements (Uniocular & Binocular)	Miscellaneous
Ophthalmology	OP10.2	Classify, enumerate the types, methods of diagnosis and indications for referral in a patient with heterotropia/ strabismus	Miscellaneous
Ophthalmology	OP10.3	Describe the role of refractive error correction in a patient with headache and enumerate the indications for referral	Miscellaneous
Ophthalmology	OP10.4	Describe the classifications, causes, ocular manifestations and management of vitamin A deficiency. Indications for referral.	Miscellaneous
Ophthalmology	OP10.5	Enumerate the indications for enucleation, evisceration and exenteration.	Miscellaneous
Ophthalmology	OP10.6	Classify ocular injuries, describe their primary management. Indications for referral.	Miscellaneous
Ophthalmology	OP10.7	Enumerate the causes of Blindness and Vision impairment. Discuss National Program for Control of Blindness (NPCB, including vision 2020)	Miscellaneous
Ophthalmology			
Physiology	PY1.1	Describe the structure and functions of a cell, intercellular communication and their applications in Clinical care and research	General Physiology
Physiology			

Physiology

Physiology	PY1.2	Discuss the principles of homeostasis and feedback mechanism	General Physiology
Physiology	PY1.3	Describe apoptosis (programmed cell death) , explain its mechanism of action and physiological significance.	General Physiology
Physiology	PY1.4	Describe and discuss various transport mechanisms across cell membranes	General Physiology
Physiology	PY1.5	Describe the fluid compartments of the body, its ionic composition & measurement methods	General Physiology
Physiology	PY1.6	Describe the concept of pH & Buffer systems in the body	General Physiology
Physiology	PY1.7	Describe the molecular basis of resting membrane potential (RMP) and generation of action potential in a nerve fibre	General Physiology
Physiology	PY2.1	Describe the composition and functions of blood and its components	Haematology
Physiology	PY2.2	Discuss the origin, forms, variations and functions of plasma proteins and its clinical implications	Haematology
Physiology	PY2.3	Describe the physiological structure, synthesis , functions and breakdown of Hemoglobin. Discuss its variants and clinical significance.	Haematology
Physiology	PY2.4	Describe Erythropoiesis & discuss its regulation in physiological and pathological situations	Haematology
Physiology	PY2.5	Describe anaemias, polycythemia & jaundice and discuss its physiological principles of management	Haematology
Physiology	PY2.6	Describe the formation of WBC (Leucopoiesis), structure and function of various WBC types and their regulatory mechanisms	Haematology
Physiology	PY2.7	Discuss 'Immunity' in terms of its types, development, regulation and physiological significance	Haematology

Physiology	PY2.8	Describe the formation of platelets (thrombopoiesis), structure, functions and variations.	Haematology
Physiology	PY2.9	Describe hemostasis, coagulation pathways, mechanism of action of anticoagulants and briefly discuss pathophysiological aspects of bleeding & clotting disorders (e.g. hemophilia, purpura)	Haematology
Physiology	PY2.10	Discuss types of blood groups, clinical importance of blood grouping, blood banking and transfusion	Haematology
Physiology	PY2.11	Estimate Hb, RBC, TLC, DLC, Blood groups, BT/CT, RBC indices	Haematology
Physiology	PY2.12	Describe the test to measure Erythrocyte Sedimentation Rate (ESR), Osmotic fragility, Hematocrit, and interpret its findings	Haematology
Physiology	PY2.13	Describe steps for reticulocyte and platelet count	Haematology
Physiology	PY3.1	Describe the structure and functions of a neuron and neuroglia; Discuss nerve growth factors	Nerve and Muscle Physiology
Physiology	PY3.2	Describe the types, functions, properties of nerve fibers including strength duration curve, chronaxie and rheobase	Nerve and Muscle Physiology
Physiology			
Physiology	PY3.3	Classify nerve injury and discuss the mechanism of degeneration and regeneration in peripheral nerves	Nerve and Muscle Physiology
Physiology	PY3.4	Describe the microscopic structure of neuro-muscular junction (NMJ) and mechanism of neuromuscular transmission	Nerve and Muscle Physiology
Physiology	PY3.5	Discuss the applied aspects of neuromuscular junction : myasthenia gravis, Lambert Eaton syndrome and neuromuscular blocking agents.	Nerve and Muscle Physiology
Physiology			
Physiology	PY3.6	Describe the different types of muscle fibres, their structure and physiological basis of action potential	Nerve and Muscle Physiology
Physiology	PY3.7	Describe properties, action potential and molecular basis of muscle contraction in skeletal muscle	Nerve and Muscle Physiology
Physiology	PY3.8	Describe properties, action potential and molecular basis of muscle contraction in smooth muscle	Nerve and Muscle Physiology

Physiology			
Physiology			
Physiology	PY3.9	Describe the mode of muscle contraction (isometric and isotonic), energy source, muscle metabolism and gradation of muscular activity	Nerve and Muscle Physiology
Physiology			
Physiology			
Physiology	PY3.10	Enumerate and briefly discuss myopathies	Nerve and Muscle Physiology
Physiology	PY3.11	Perform Ergography and calculate the work done by a skeletal muscle	Nerve and Muscle Physiology
Physiology	PY3.12	Observe with Computer assisted learning (i) Amphibian nerve - muscle experiments (ii) Amphibian cardiac experiments	Nerve and Muscle Physiology
Physiology			
Physiology			
Physiology	PY4.1	Describe the functional anatomy of digestive system	Gastro-intestinal Physiology
Physiology	PY4.2	Enumerate various Gastrointestinal hormones (GI) hormones, discuss their functions and regulation	Gastro-intestinal Physiology
Physiology			
Physiology	PY4.3	Describe the composition, mechanism of secretion, functions, and regulation of saliva	Gastro-intestinal Physiology
Physiology	PY4.4	Describe the composition, mechanism of secretion, functions, and regulation of gastric juice. Discuss various gastric function tests	Gastro-intestinal Physiology
Physiology	PY4.5	Describe the composition, mechanism of secretion, functions, and regulation of pancreatic juice including various pancreatic exocrine function tests	Gastro-intestinal Physiology

Physiology	PY4.6	Describe the composition, mechanism of secretion, functions, and regulation of intestinal juices	Gastro-intestinal Physiology
Physiology	PY4.7	Describe the physiology of digestion and absorption of nutrients	Gastro-intestinal Physiology
Physiology	PY4.8	Describe GIT movements, its regulation and physiological significance including defecation reflex and the role of dietary fibres	Gastro-intestinal Physiology
Physiology	PY4.10	Describe the Gut-Brain Axis and its physiological significance	Gastro-intestinal Physiology
Physiology	PY4.9	Describe the structure , functions and secretion of liver and gallbladder with elaboration of various liver function tests	Gastro-intestinal Physiology
Physiology			
Physiology	PY4.11	Discuss (in brief) the applied physiology of GIT viz. Peptic ulcer, gastroesophageal reflux disease, vomiting, diarrhoea, constipation, Adynamic ileus, Hirschsprung's disease	Gastro-intestinal Physiology
Physiology	PY4.12	Obtain relevant history and conduct correct General and Clinical examination of the abdomen in a normal volunteer or simulated environment	Gastro-intestinal Physiology
Physiology	PY5.1	Describe the functional anatomy of heart including chambers and coronary circulation	Cardiovascular Physiology
Physiology	PY5.2	Describe the properties of cardiac muscle including its morphology, electrical, mechanical and metabolic functions	Cardiovascular Physiology
Physiology	PY5.3	Describe generation and conduction of cardiac impulse along with the conduction pathway (including pacemaker potential).	Cardiovascular Physiology
Physiology	PY5.4	Discuss the physiological events occurring during the cardiac cycle, concurrent pressure volume changes, generation of heart sounds and murmur	Cardiovascular Physiology
Physiology	PY5.5	Describe the physiology of electrocardiogram (E.C.G), the cardiac axis and its applications	Cardiovascular Physiology

Physiology	PY5.6	Discuss physiological variations in ECG waveforms, abnormal waveforms and intervals , arrhythmias, heart blocks and myocardial Infarction	Cardiovascular Physiology
Physiology	PY5.7	Discuss haemodynamics of circulatory system	Cardiovascular Physiology
Physiology	PY5.8	Describe and discuss local and systemic cardiovascular regulatory mechanisms	Cardiovascular Physiology
Physiology	PY5.9	Describe heart rate, factors affecting heart rate, and its regulation	Cardiovascular Physiology
Physiology	PY5.10	Describe cardiac output, factors affecting cardiac output and its regulation.	Cardiovascular Physiology
Physiology	PY5.11	Describe blood pressure, factors affecting blood pressure and its regulation	Cardiovascular Physiology
Physiology	PY5.12	Describe & discuss regional circulation including microcirculation, lymphatic circulation, cerebral, capillary, skin, foetal, pulmonary and splanchnic circulation	Cardiovascular Physiology
Physiology	PY5.13	Describe the patho-physiology of shock, syncope heart failure with physiological basis of its management	Cardiovascular Physiology
Physiology	PY5.14	Record blood pressure & pulse at rest and in different grades of exercise and postures in a volunteer or simulated environment	Cardiovascular Physiology
Physiology	PY5.15	Record and interpret normal ECG in a volunteer or simulated environment	Cardiovascular Physiology
Physiology	PY5.16	Obtain relevant history and conduct General and Clinical examination of the cardiovascular system in a normal volunteer or simulated environment	Cardiovascular Physiology
Physiology			
Physiology			
Physiology	PY6.1	Describe the functional anatomy of respiratory tract and non-respiratory functions of lungs	Respiratory Physiology

Physiology	PY6.2	Describe the mechanics of normal respiration, pressure changes during ventilation, lung volume and capacities (Static and Dynamic)	Respiratory Physiology
Physiology	PY6.3	Describe the alveolar surface tension, compliance, airway resistance, ventilation, V/P ratio, diffusion capacity of lungs	Respiratory Physiology
Physiology	PY6.4	Discuss the transport of respiratory gases viz Oxygen and Carbon dioxide across lungs and whole body	Respiratory Physiology
Physiology	PY6.5	Describe the chemoreceptors (peripheral and central) and neural centres of respiration including chemical and neural regulation of respiration	Respiratory Physiology
Physiology	PY6.6	Describe and discuss the pathophysiology of dyspnoea, hypoxia, cyanosis, asphyxia, drowning, periodic breathing and oxygen therapy	Respiratory Physiology
Physiology	PY6.7	Discuss various lung function tests and their clinical significance in obstructive and restrictive lung diseases	Respiratory Physiology
Physiology	PY6.8	Discuss the physiology of high altitude and acclimatization	Respiratory Physiology
Physiology	PY6.9	Discuss the physiology of deep sea diving and decompression sickness	Respiratory Physiology
Physiology	PY6.10	Perform Spirometry and interpret the findings (Digital / Manual)	Respiratory Physiology
Physiology	PY6.11	Describe principles and methods of artificial respiration	Respiratory Physiology
Physiology	PY6.12	Obtain relevant history and conduct correct General and Clinical examination of the respiratory system in a normal volunteer or simulated environment	Respiratory Physiology
Physiology	PY6.13	Demonstrate the correct technique to perform measurement of peak expiratory flow rate in a normal volunteer or simulated environment	Respiratory Physiology
Physiology	PY7.1	Describe the functional anatomy of kidney and non-excretory functions of kidney	Renal Physiology

Physiology	PY7.2	Describe the structure and functions of juxta glomerular apparatus and role of renin-angiotensin system	Renal Physiology
Physiology	PY7.3	Describe the mechanism of urine formation involving processes of filtration (Glomerular filtration), tubular reabsorption & secretion.	Renal Physiology
Physiology	PY7.4	Describe the mechanism of urine concentration and dilution (Counter current Multiplier & Exchanger)	Renal Physiology
Physiology	PY7.5	Describe the renal regulation of fluid and electrolytes & acid-base balance	Renal Physiology
Physiology	PY7.6	Describe the innervations of urinary bladder, physiology of micturition and its abnormalities	Renal Physiology
Physiology	PY7.7	Describe cystometry and discuss the normal cystometrogram	Renal Physiology
Physiology	PY7.8	Discuss various Renal Function Tests with its physiological significance and clinical implication of Renal clearance	Renal Physiology
Physiology			
Physiology	PY7.9	Discuss the role of artificial kidneys, dialysis and indications of renal transplant	Renal Physiology
Physiology	PY8.1	Describe the functional anatomy of endocrine glands, mechanism of hormonal action (steroid and peptide) and hypothalamus pituitary axis {HPA}	Endocrine Physiology
Physiology			
Physiology	PY8.2	Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland	Endocrine Physiology
Physiology	PY8.3	Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of thyroid gland including thyroid function tests	Endocrine Physiology
Physiology	PY8.4	Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of adrenal gland and its function tests	Endocrine Physiology

Physiology	PY8.5	Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of parathyroid gland with emphasis of physiology of bone and calcium metabolism	Endocrine Physiology
Physiology	PY8.6	Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pancreatic gland including pancreatic function tests	Endocrine Physiology
Physiology			
Physiology			
Physiology	PY8.7	Describe the physiology of Thymus & Pineal Gland	Endocrine Physiology
Physiology	PY9.1	Explain sex determination, sex differentiation and their abnormalities and discuss the effects of removal of gonads on physiological functions	Reproductive Physiology
Physiology			
Physiology	PY9.2	Describe and discuss puberty: onset, progression, stages; early and delayed puberty.	Reproductive Physiology
Physiology	PY9.3	Describe the functional anatomy of male reproductive system, functions of testis, spermatogenesis and discuss the functions and regulations of testosterone hormone	Reproductive Physiology
Physiology	PY9.4	Describe the functional anatomy of female reproductive system: functions of ovary and its hormones (estrogen and progesterone) ; hormonal regulation by hypothalamic pituitary gonadal (HPG axis)	Reproductive Physiology
Physiology	PY9.5	Discuss the menstrual cycle, uterine and ovarian changes, hormonal regulation and its implications in reproductive physiology	Reproductive Physiology
Physiology	PY9.6	Enumerate male and female contraceptive methods, rationale of its prescription, side effects and its advantages & disadvantages	Reproductive Physiology

Physiology	PY9.7	Discuss the physiology of pregnancy, parturition & lactation.	Reproductive Physiology
Physiology	PY9.8	Discuss the physiological basis of various pregnancy tests	Reproductive Physiology
Physiology	PY9.9	Discuss the hormonal changes and their effects during perimenopause and menopause	Reproductive Physiology
Physiology	PY9.10	Discuss the common causes of infertility in a couple and role of IVF in managing a case of infertility	Reproductive Physiology
Physiology			
Physiology	PY10.1	Describe and discuss the functional organization of central nervous system (brain and spinal cord)	Central Nervous System Physiology
Physiology	PY10.2	Describe the functional anatomy of peripheral nervous system (including autonomic nervous system)	Central Nervous System Physiology
Physiology	PY10.3	Classify the neurotransmitters and discuss the chemical transmission in the nervous system.	Central Nervous System Physiology
Physiology			
Physiology	PY10.4	Discuss the classification, functions and properties of synapse	Central Nervous System Physiology
Physiology	PY10.5	Discuss the classification, functions and properties of reflex	Central Nervous System Physiology
Physiology	PY10.6	Discuss the classification, functions and properties of receptors	Central Nervous System Physiology
Physiology	PY10.7	Discuss somatic sensations, ascending tracts, (sensory tracts) and applied aspects of sensory system	Central Nervous System Physiology
Physiology	PY10.8	Discuss Physiology of pain including pain pathways and its modulation with special emphasis on gate control theory of pain	Central Nervous System Physiology
Physiology	PY10.9	Describe the course of descending tracts (pyramidal and extra pyramidal), its clinical implications including difference in Upper motor neuron (UMN)and lower motor neuron (LMN) lesions	Central Nervous System Physiology

Physiology	PY10.10	Discuss types and clinical features of spinal cord lesions (complete, incomplete transection and hemisection - Brown Sequard syndrome)	Central Nervous System Physiology
Physiology	PY10.11	Describe functional anatomy of cerebellum, its connections, functions and clinical abnormalities .	Central Nervous System Physiology
Physiology	PY10.12	Discuss functional anatomy of basal ganglia , its connections, functions and Clinical abnormalities .	Central Nervous System Physiology
Physiology	PY10.13	Discuss the mechanism of maintenance of tone, posture and control of body movements	Central Nervous System Physiology
Physiology			
Physiology	PY10.14	Discuss functional anatomy of thalamus , its connections, functions and clinical abnormalities .	Central Nervous System Physiology
Physiology	PY10.15	Discuss functional anatomy of hypothalamus and limbic system , its connections, functions and clinical abnormalities .	Central Nervous System Physiology
Physiology	PY10.16	Discuss functional anatomy of cerebral cortex, its connections, functions and Clinical abnormalities	Central Nervous System Physiology
Physiology	PY10.17	Discuss the structure and functions of reticular activating system, sleep physiology and EEG waveforms during sleep wake cycle	Central Nervous System Physiology
Physiology			
Physiology	PY10.18	Discuss the physiological basis of memory, learning and speech and clinical alterations in speech	Central Nervous System Physiology
Physiology	PY10.19	Obtain relevant history and conduct correct General and Clinical examination of the nervous system: Higher functions, sensory system, motor system, reflexes in a normal volunteer or simulated environment	Central Nervous System Physiology
Physiology	PY10.20	Obtain relevant history and conduct correct General and Clinical examination of the cranial nerves in a normal volunteer or simulated environment	Central Nervous System Physiology
Physiology			

Physiology

Physiology	PY11.1	Describe and discuss physiology of smell and its applied aspects	Special Senses
Physiology	PY11.2	Describe and discuss physiology of taste sensation and applied aspects	Special Senses
Physiology	PY11.3	Describe and discuss functional anatomy of ear and auditory pathways, vestibular apparatus and equilibrium	Special Senses
Physiology	PY11.4	Discuss physiology of hearing, pathophysiology of deafness and hearing tests	Special Senses
Physiology	PY11.5	Discuss functional anatomy of eye, visual pathway, light and pupillary reflex and clinical implication of lesions in visual pathway	Special Senses

Physiology

Physiology	PY11.6	Discuss physiology of image formation, refractive errors and physiological principles of its management	Special Senses
Physiology	PY11.7	Discuss physiology of vision including colour vision and colour blindness	Special Senses
Physiology	PY12.1	Describe physiological mechanism of temperature regulation	Integrated Physiology
Physiology	PY12.2	Discuss adaptation to altered temperature (heat and cold) and mechanism of fever, cold injuries and heat stroke	Integrated Physiology

Physiology

Physiology	PY12.3	Discuss cardio-respiratory and metabolic adjustments during exercise (isometric and isotonic), effects of physical training under different environmental conditions (heat and cold)	Integrated Physiology

Physiology

Physiology	PY12.4	Discuss physiological consequences of sedentary lifestyle; metabolic and endocrinal consequences of obesity & metabolic syndrome.	Integrated Physiology
Physiology			
Physiology	PY12.5	Describe physiology of Infancy, Interpret growth charts and anthropometric assessment of infants	Integrated Physiology
Physiology			
Physiology			
Physiology	PY12.6	Describe and discuss physiology of aging, role of free radicals and antioxidants	Integrated Physiology
Physiology	PY12.7	Discuss the concept, criteria for diagnosis of Brain death and its implications	Integrated Physiology
Physiology	PY12.8	Discuss the physiology of yoga and meditation	Integrated Physiology
Physiology	PY12.9	Obtain history and perform general examination in the volunteer / simulated environment	Integrated Physiology
Physiology	PY12.10	Demonstrate Basic Life Support in a simulated environment	Integrated Physiology
Orthopedics	OR1.1	Describe and discuss the Principles of pre-hospital care and Emergency room management of a trauma victim including principles of triage and advance trauma life support.	Skeletal Trauma, Poly trauma
Orthopedics	OR1.2	Describe and discuss the etiopathogenesis, clinical features, investigations, and principles of management of shock	Skeletal Trauma, Poly trauma
Orthopedics	OR1.3	Describe and discuss the etiopathogeneses, clinical features, investigations, and principles of management of soft tissue injuries	Skeletal Trauma, Poly trauma

Orthopedics			
Orthopedics	OR1.4	Describe and discuss the etiopathogenesis, clinical features, investigations, and principles of management of dislocation of common joints, shoulder, knee, hip and fingers.	Skeletal Trauma, Poly trauma
Orthopedics	OR1.5	Participate as a member in the team for closed reduction of shoulder dislocation / hip dislocation / knee dislocation and dislocation of finger joints,	Skeletal Trauma, Poly trauma
Orthopedics	OR1.6	Discuss the recent advances in the management of various orthopaedic conditions like trauma, sports injuries, arthroplasty and spine pathologies.	Skeletal Trauma, Poly trauma
Orthopedics	OR2.1	Describe and discuss the mechanism of Injury, clinical features, investigations and plan management of fracture of clavicle	Fractures
Orthopedics	OR2.2	Describe and discuss the mechanism of Injury, clinical features, investigations and plan management of fractures of proximal humerus	Fractures
Orthopedics	OR2.3	Select, prescribe and communicate appropriate medications for relief of joint pain	Fractures
Orthopedics	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 neurovascular deficit	Fractures

Orthopedics	OR2.5	Describe and discussthe aetiopathogenesis, clinical features, mechanism of injury, investigation & principles of management of fractures of both bones forearm and Galeazzi and Monteggia injury	Fractures
Orthopedics	OR2.6	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of distal radius	Fractures
Orthopedics	OR2.7	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of pelvic Pelvi-Acetabular injuries with emphasis on hemodynamic instability	Fractures
Orthopedics	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
Orthopedics	OR2.9	Describe an discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of proximal femur including neck of femur and intertrochanteric fractures.	Fractures
Orthopedics			

Orthopedics	OR2.10	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
Orthopedics	OR2.11	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
Orthopedics	OR 2.12	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 (d) Lisfranc fracture dislocation	Fractures
Orthopedics	OR2.13	Describe and discuss the aetiopathogenesis, clinical features, Investigation and principles of management of ankle fractures	Fractures
Orthopedics	OR 2.14	Plan and interpret the investigations to diagnose complicationsof fractures like malunion, non-union and infection.	Fractures
Orthopedics	OR 2.15	Describeand discuss the mechanism of injury, clinical features, investigations and principles of management of open fractures with focus on secondary infection prevention and management.	Fractures

Orthopedics	OR2.16	Describe and discuss the mechanism of injury, clinical features, investigations and principles of management of following orthopaedic injuries in children: a) Fracture supracondylar humerus with emphasis on neurovascular injury and compartment syndrome. b) Forearm and distal end radius fractures, pulled elbow. c) Epiphyseal injuries d) Fracture shaft femur, tibia/ both bones of the leg e) Non-accidental injuries / child abuse	Fractures
Orthopedics	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) Septic arthritis & HIV infection d) Chronic osteomyelitis	Musculoskeletal Infection
Orthopedics	OR3.2	Participate as a member in team for aspiration of joints under supervision	Musculoskeletal Infection
Orthopedics	OR3.3	Participateasamemberinteamforcompetencieslikedrainageof abscess, sequestrectomy/saucerisation and arthrotomy	Musculoskeletal Infection
Orthopedics	OR4.1	Describe and discuss the clinical features, Investigation and principles of management of Tuberculosis affecting major joints (Hip, Knee) including cold abscess and caries spine	Skeletal Tuberculosis
Orthopedics	OR5.1	Describe how to approach to a case of poly arthritis discuss the aetiopathogenesis, clinical features, investigations and principles of management of various inflammatory disorder of joints like rheumatoid arthritis, ankylosing spondylitis and psoriatic arthritis.	Rheumatoid Arthritis and associated inflammatory disorders

Orthopedics	OR6.1	Enumerate the causes of low back pain, Describe and discuss the clinical features, investigations and principles of management of degenerative condition of spine (Cervical Spondylosis, Lumbar Spondylosis, PID)	Degenerative disorders
Orthopedics	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. Discuss the deformities in rickets and their management.	Metabolic bone disorders
Orthopedics	OR8.1	Describe and discuss the aetiopathogenesis, clinical features, assessment and principles of management a patient with Post- Polio Residual Paralysis	Poliomyelitis
Orthopedics	OR9.1	Describe and discuss the aetiopathogenesis, clinical features, assessment and principles of management of Cerebral palsy patient	Cerebral Palsy
Orthopedics	OR10.1	Describe and discuss the aetiopathogenesis, clinical features, investigations andprinciples ofmanagement of benign and malignant bonetumorsand pathological fractures	BoneTumors
Orthopedics	OR11.1	Describe the aetiopathogenesis, clinical features, investigations and principles of management of peripheral nerve injuries. Discuss the management of Radial, Ulnar, Median, Lateral Popliteal and Sciatic Nerve injuries. Demonstrate splints used in footdrop, wristdrop and clawhand.	Peripheral nerve injuries

Orthopedics	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 equinovarus	Congenital lesions
Orthopedics	OR13.1	Participate in a team for competencies 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
Orthopedics	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

Orthopedics	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 tumors d. Congenital disabilities	Counselling Skills
Orthopedics	OR14.2	Demonstrate the ability to counsel patients to obtain consent for various orthopedic competencies like limb amputation, permanent fixations etc..	Counselling Skills
Orthopedics	OR14.3	Demonstrate the ability to convince the patient for referral to a higher center in various orthopedic illnesses like acute osteomyelitis. septic arthritis, neurovascular injuries and low back pain with red flags, based on the detection of warning signals and need for appropriate management	Counselling Skills
Orthopedics	OR14.4	Describe various amputations of the lower limb. Discuss the ideal stump and various prosthesis used in rehabilitation of patient with below knee amputation.	Counselling Skills
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Forensic Med. & Toxicology	FM1.1	Define Forensic medicine, Clinical Forensic Medicine, Forensic Pathology, State Medicine, Legal Medicine and Medical Jurisprudence	Introduction to forensic medicine basics of legal procedure.
Forensic Med. & Toxicology	FM1.2	Describe history of Forensic Medicine	Introduction to forensic medicine basics of legal procedure.
Forensic Med. & Toxicology	FM1.3	Describe legal competencies including Bharatiya Nagarika Suraksha Sanhita (BNSS), Bharatiya Nyay Sanhita (BNS) Bharatiya Sakshya Adhiniyam (BSA), Protection of Children from Sexual Offences Act (POCSO) Civil and Criminal Cases, Inquest (Police Inquest and Magistrate's Inquest), Cognizable and Non-cognizable offences	Introduction to forensic medicine basics of legal procedure.

Forensic Med. & Toxicology	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	Introduction to forensic medicine basics of legal procedure.
Forensic Med. & Toxicology	FM1.5	Describe Court competencies 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	Introduction to forensic medicine basics of legal procedure.
Forensic Med. & Toxicology	FM1.6	Describe Offenses in Court including Perjury; Court strictures vis-a- vis Medical Officer	Introduction to forensic medicine basics of legal procedure.
Forensic Med. & Toxicology	FM1.7	Describe Dying Declaration & Dying Deposition	Introduction to forensic medicine basics of legal procedure.
Forensic Med. & Toxicology	FM1.8	Describe the latest decisions/notifications/resolutions/ circulars/standing orders related to medico-legal practice issued by Courts/Government authorities etc.	Introduction to forensic medicine basics of legal procedure.
Forensic Med. & Toxicology	FM1.9	Describe the importance of documentation in medical practice in regard to medico legal examinations, Medical Certificates and medico legal 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	Introduction to forensic medicine basics of legal procedure.

Forensic Med. & Toxicology	FM2.1	Select appropriate cause of death in a particular scenario by referring ICD 11 code	Forensic Pathology
Forensic Med. & Toxicology	FM2.2	Write a correct Medical Certificate of Cause of Death (MCCD) certificate as per ICD 11 document	Forensic Pathology
Forensic Med. & Toxicology	FM2.3	Define, describe and discuss death and its types including somatic/clinical/cellular, molecular and brain-death, Cortical Death and Brainstem Death	Forensic Pathology
Forensic Med. & Toxicology	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
Forensic Med. & Toxicology	FM2.5	Describe and discuss issues related to sudden natural deaths	Forensic Pathology
Forensic Med. & Toxicology	FM2.6	Describe and discuss natural and unnatural deaths	Forensic Pathology
Forensic Med. & Toxicology	FM2.7	Discuss moment of death, modes of death – coma, asphyxia and syncope	Forensic Pathology
Forensic Med. & Toxicology	FM2.8	Describe and discuss suspended animation	Forensic Pathology
Forensic Med. & Toxicology	FM2.9	Describe and discuss post-mortem changes including signs of death, cooling of body, post-mortem lividity, rigor mortis, cadaveric spasm, cold stiffening and heat stiffening	Forensic Pathology
Forensic Med. & Toxicology	FM2.10	Describe putrefaction, mummification, adipocere and maceration	Forensic Pathology

Forensic Med. & Toxicology	FM2.11	Discuss estimation of time since death	Forensic Pathology
Forensic Med. & Toxicology	FM2:12	Introduction to mortuary setup and minimum requirement for conducting post-mortem examination and Embalming techniques	Forensic Pathology
Forensic Med. & Toxicology	FM2.13	Describe and discuss autopsy competencies including post-mortem examination, different types of autopsies, aims and objectives of post-mortem examination	Forensic Pathology
Forensic Med. & Toxicology	FM2.14	Describe the legal requirements to conduct post-mortem examination and competencies to conduct medico-legal post-mortem examination	Forensic Pathology
Forensic Med. & Toxicology	FM2.15	Describe and discuss obscure autopsy and Virtopsy	Forensic Pathology
Forensic Med. & Toxicology	FM2.16	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
Forensic Med. & Toxicology	FM2.17	Describe the clinical features, post-mortem finding and medico legal 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
Forensic Med. & Toxicology	FM2.18	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 Pathology
Forensic Med. & Toxicology	FM2.19	Describe and discuss clinical features, post-mortem findings and medico-legal aspects of death due to starvation and neglect	Forensic Pathology

Forensic Med. & Toxicology	FM 2.20	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
Forensic Med. & Toxicology	FM2.21	Describe and discuss examination of mutilated bodies or fragments, charred bones and bundle of bones	Forensic Pathology
Forensic Med. & Toxicology	FM2.22	Describe and discuss exhumation	Forensic Pathology
Forensic Med. & Toxicology	FM2.23	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
Forensic Med. & Toxicology	FM2.24	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 Pathology
Forensic Med. & Toxicology	FM2.25	Demonstrate professionalism while conducting autopsy in medico legal situations, interpretation of findings and making inference/opinion, collection preservation and dispatch of biological or trace evidences	Forensic Pathology
Forensic Med. & Toxicology	FM2.26	Demonstrate ability to work in a team for conduction of medico-lega autopsies in cases of death following alleged negligence medica dowry death, death in custody or following violation of human rights as per National Human Rights Commission Guidelines on exhumation	Forensic Pathology
Forensic Med. & Toxicology	FM2.27	Demonstrate ability to exchange information by verbal, or nonverbal communication to the peers, family members, law enforcing agency and judiciary	Forensic Pathology
Forensic Med. & Toxicology	FM2.28	Demonstrate ability to use local resources whenever required like in mass disaster situations	Forensic Pathology

Forensic Med. & Toxicology			
Forensic Med. & Toxicology	FM3.1	Define, classify and describe asphyxia and medico-legal interpretation of post-mortem findings in asphyxial deaths	Mechanical asphyxia
Forensic Med. & Toxicology	FM3.2	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	Mechanical asphyxia
Forensic Med. & Toxicology	FM3.3	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	Mechanical asphyxia
Forensic Med. & Toxicology			
Forensic Med. & Toxicology	FM4.1	Define and describe Corpus Delicti, establishment of identity of living persons including race, sex, religion, complexion, stature.	Clinical forensic medicine – identification
Forensic Med. & Toxicology	FM4.2	Discuss teeth-eruption, decay, bite marks, and medico-legal aspects of teeth.	Clinical forensic medicine – identification
Forensic Med. & Toxicology	FM4.3	Discuss age determination using morphology, bones-ossification centers and medico-legal aspects of age.	Clinical forensic medicine – identification

Forensic Med. & Toxicology			
Forensic Med. & Toxicology	FM 4.4	Describe and discuss identification of criminals, unknown persons, dead bodies from the remains-hairs, fibers, teeth, anthropometry	Clinical forensic medicine – identification
Forensic Med. & Toxicology	FM4.5	Dactylography, footprints, scars, tattoos, poroscopy and superimposition	Clinical forensic medicine – identification
Forensic Med. & Toxicology	FM5.1	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	mechanical injuries and wounds
Forensic Med. & Toxicology	FM5.2	Define injury, assault & hurt. Describe Bharatiya Nyay Sanhita (BNS) pertaining to injuries	mechanical injuries and wounds
Forensic Med. & Toxicology	FM5.3	Describe accidental, suicidal and homicidal injuries. Describe simple, grievous and dangerous injuries. Describe ante-mortem and post-mortem injuries	mechanical injuries and wounds
Forensic Med. & Toxicology	FM5.4	Describe healing of injury and fracture of bones with its medico-legal importance	mechanical injuries and wounds
Forensic Med. & Toxicology	FM5.5	Describe factors influencing infliction of injuries and healing, examination and certification of wounds and wound as a cause of death: Primary and Secondary	mechanical injuries and wounds
Forensic Med. & Toxicology	FM5.6	Describe and discuss different types of weapons including dangerous weapons and their examination	mechanical injuries and wounds

Forensic Med. & Toxicology	FM6.1	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	firearm injuries
Forensic Med. & Toxicology	FM6.2	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	firearm injuries
Forensic Med. & Toxicology	FM7.1	Describe and discuss regional injuries to head (Scalp wounds, fracture skull, intracranial hemorrhages, coup and countercoup injuries), neck, chest, abdomen, limbs, genital organs, spinal cord and Skeleton	regional injuries
Forensic Med. & Toxicology	FM7.2	Describe and discuss injuries related to fall from height and vehicular injuries – Primary and Secondary impact, Secondary injuries, crush syndrome, railway spine	regional injuries
Forensic Med. & Toxicology	FM8.1	Describe various sections of BNS and BNSS related to definition of rape, medical examination of rape victim/ survivor and accused of rape, police information by the doctors and medical care with recent amendments notified till date (i.e. Sections 63 BNS, 200 BNS, 397 BNSS & 184 BNSS, 52 BNSS), and recent amendments notified till date, sections 3 to 12, 27 and 41 of Protection of Children from sexual offences (POCSO) Act.	Sexual Offences
Forensic Med. & Toxicology	FM8.2	Describe and discuss the examination of the survivor of an alleged case of rape, and the preparation of report, framing the opinion and preservation and dispatch of trace evidences in such cases	Sexual Offences

Forensic Med. & Toxicology			
Forensic Med. & Toxicology			
Forensic Med. & Toxicology			
Forensic Med. & Toxicology			
Forensic Med. & Toxicology	FM8.3	Describe and discuss informed consent in sexual intercourse. Describe and discuss histories of gender and sexuality-based (sexual orientation) identities and rights in India. Describe history of decriminalization of ‘adultery’ and consensual adult homosexual sexual behaviour. Describe sexual offences with its medicolegal significance- Forced/ non-consensual penetrative anal sex Forced/ non-consensual oral sex Sexual acts with animals/ bestiality/ zoophilia Forced/ non-consensual insertion of fingers or objects Forced/ non-consensual touching or groping or disrobing (‘indecent assault’).	Sexual Offences
Forensic Med. & Toxicology	FM 8.4	Define and discuss infanticide, foeticide and stillbirth	Sexual Offences

Forensic Med. & Toxicology	FM8.6	Describe the difference between paraphilia and paraphilic disorder. Describe paraphilic disorder as per the latest guidelines of DSM and ICD and describe medico-legal implications of paraphilic disorder by referring scientific literature and legal justification (if any). Describe and discuss various paraphilias in the context of informed consent during any sexual interaction.	Sexual Offences
Forensic Med. & Toxicology	FM8.7	Describe legitimacy and its medico legal importance. Describe and discuss how 'signs' of virginity (so called 'virginity test', including finger tests (on female genitalia) are unscientific, inhuman and discriminatory. Describe and discuss how to appraise the courts about unscientific basis of these tests if court orders it.	Sexual Offences
Forensic Med. & Toxicology	FM8.8	Discuss the medico legal aspects of pregnancy and delivery, signs of pregnancy, precipitate labour, superfoetation, superfecundation and signs of recent and remote delivery in living and dead	Sexual Offences
Forensic Med. & Toxicology	FM8.9	Discuss disputed paternity and maternity	Sexual Offences
Forensic Med. & Toxicology	FM8.10	Discuss Pre-conception and Pre Natal Diagnostic Techniques (PC&PNDT) - Prohibition of Sex Selection Act 2003 and Domestic Violence Act 2005 with Amendments	Sexual Offences
Forensic Med. & Toxicology	FM8.11	Define and discuss impotence, sterility, frigidity, sexual dysfunction, premature ejaculation. Discuss the causes of impotence and sterility in male and female	Sexual Offences
Forensic Med. & Toxicology	FM8.12	Discuss Sterilization of male and female, artificial insemination, Test Tube Baby, surrogate mother, hormonal replacement therapy with respect to appropriate national and state laws	Sexual Offences
Forensic Med. & Toxicology	FM8.13	Discuss the relative importance of surgical methods of contraception(vasectomy and tubectomy) as methods of contraception in the National Family Planning Programme	Sexual Offences
Forensic Med. & Toxicology			

Forensic Med. & Toxicology	FM 8.14	Discuss Assisted Reproductive Technology Regulation Act 2021 and Surrogacy Act 2021 for accreditation, supervision and regulation of ART and Surrogacy Clinics in India.	Sexual Offences
Forensic Med. & Toxicology	FM8.15	Define, classify and discuss abortion, methods of MTP and criminal abortion and complication of abortion. MTP Act 2021 and recent amendments.	Sexual Offences
Forensic Med. & Toxicology	FM8.16	Describe evidences of abortion - living and dead, duties of doctor in cases of abortion, investigations of death due to criminal abortion	Sexual Offences
Forensic Med. & Toxicology	FM 9.1	Describe and discuss child abuse and battered baby syndrome	child abuse and torture and human rights
Forensic Med. & Toxicology	FM9.2	Describe and discuss issues relating to torture, identification of injuries caused by torture and its sequalae, management of torture Survivors	child abuse and torture and human rights
Forensic Med. & Toxicology	FM9.3	Describe and discuss guidelines and Protocols of National Human Rights Commission regarding torture	child abuse and torture and human rights
Forensic Med. & Toxicology			
Forensic Med. & Toxicology	FM9.4	Should be able to demonstrate the professionalism while dealing with survivor of torture and human right violations, sexual assaults- psychological consultation, rehabilitation	child abuse and torture and human rights
Forensic Med. & Toxicology	FM10.1	Describe Medical Ethics and explain its historical emergence	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.2	Describe the Indian Medical Register	Medical jurisprudence (medical law and ethic

Forensic Med. & Toxicology	FM10.3	Describe the functions and role of National Medical Commission and State Medical Councils	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.4	Describe the Code of Medical Ethics 2002 conduct, Etiquette and Ethics in medical practice and unethical practices & the dichotomy	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.5	Rights/privileges of a medical practitioner, penal erasure, infamous conduct, disciplinary Committee, disciplinary competencies, warning notice and penal erasure	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.6	Describe the Laws in Relation to medical practice and the duties of a medical practitioner towards patients and society	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.7	Describe and discuss ethics related to HIV patients and legal aspects as per The Human Immunodeficiency Virus and Acquired Immune Deficiency Syndrome (Prevention and Control) Act, 2017.	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.8	Describe the Consumer Protection Act-2019 (Medical Indemnity Insurance, Civil Litigations and Compensations)	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.9	Describe the medico - legal issues in relation to family violence, violation of human rights, NHRC and doctors	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.10	Describe communication between doctors, public and media	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.11	Describe and discuss euthanasia and Do not Resuscitate (DNR)	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.12	Discuss legal and ethical issues in relation to stem cell research	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.13	Describe social aspects of Medico-legal cases with respect to survivors of assault, rape, attempted suicide, homicide, domestic violence, dowry- related cases	Medical jurisprudence (medical law and ethic

Forensic Med. & Toxicology	FM10.14	Describe & discuss the challenges in managing medico-legal cases including development of skills in relationship management – Human behavior, communication skills, conflict resolution Techniques	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.15	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 ethic
Forensic Med. & Toxicology	FM10.16	Describe and discuss Bioethics	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.17	Describe and discuss ethical Principles: Respect for autonomy, non- malfeasance, beneficence & justice	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.18	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 ethic
Forensic Med. & Toxicology	FM10.19	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 ethic
Forensic Med. & Toxicology	FM10.20	Describe therapeutic privilege, Malingering, Therapeutic Misadventure, Professional Secrecy, Human Experimentation	Medical Jurisprudence (Medical Law and ethics)
Forensic Med. & Toxicology	FM10.21	Describe Products liability and Medical Indemnity Insurance	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.22	Explain Oath – Hippocrates, Charaka and Sushruta and procedure for administration of Oath.	Medical jurisprudence (medical law and ethic

Forensic Med. & Toxicology	FM10.23	Describe the modified Declaration of Geneva and its relevance	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.24	Enumerate rights, privileges and duties of a Registered Medical Practitioner. Discuss doctor- patient relationship: professional secrecy and privileged communication	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.25	Clinical research & Ethics Discuss human experimentation including clinical trials	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.26	Discuss the constitution and functions of ethical committees	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.27	Describe and discuss Ethical Guidelines for Biomedical Research on Human Subjects & Animals	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.28	Demonstrate respect to laws relating to medical practice and Ethical code of conduct prescribed by National Medical Commission and rules and regulations prescribed by it from time to time	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology	FM10.29	Demonstrate ability to conduct research in pursuance to guidelines or research ethics	Medical jurisprudence (medical law and ethic
Forensic Med. & Toxicology			
Forensic Med. & Toxicology	FM 11.1	Classify common mental illnesses including post-traumatic stress disorder (PTSD)	Forensic Psychiatry
Forensic Med. & Toxicology	FM11.2	Define, classify and describe delusions, hallucinations, illusion, lucid interval and obsessions with exemplification	Forensic psychiatry

Forensic Med. & Toxicology	FM11.3	Describe Civil and criminal responsibilities of a mentally ill person	Forensic psychiatry
Forensic Med. & Toxicology	FM11.4	Differentiate between true mental illness from feigned mental illness	Forensic psychiatry
Forensic Med. & Toxicology	FM11.5	Describe & discuss Delirium tremors	Forensic psychiatry
Forensic Med. & Toxicology	FM11.6	Describe the Indian Mental Health Act, 2017 and recent amendments with special reference to admission, care and discharge of a mentally ill person	Forensic psychiatry
Forensic Med. & Toxicology	FM12.1	Describe different types of specimen 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 laboratory investigation, recent advances and trace evidences
Forensic Med. & Toxicology	FM12.2	Describe the methods of sample collection, preservation, labelling, dispatch, and interpretation of reports	Forensic laboratory investigation, recent advances and trace evidences
Forensic Med. & Toxicology	FM12.3	Cyber Forensic in relation to Privacy of Medical Documents	Forensic laboratory investigation, recent advances and trace evidences
Forensic Med. & Toxicology	FM12.4	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, recent advances and trace evidences

Forensic Med. & Toxicology	FM12.6	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	Forensic laboratory investigation, recent advances and trace evidences
Forensic Med. & Toxicology	FM13.1	Describe the history of Toxicology	Toxicology
Forensic Med. & Toxicology	FM13.2	Define the terms Toxicology, Forensic Toxicology, Clinical Toxicology and poison.	Toxicology
Forensic Med. & Toxicology	FM13.3	Describe the various types of poisons, Toxicokinetics, and Toxicodynamics and diagnosis of poisoning in living and dead	Toxicology
Forensic Med. & Toxicology	FM13.4	Describe the Laws in relations to poisons including NDPS Act, Medico-legal aspects of poisons	Toxicology
Forensic Med. & Toxicology	FM13.5	Describe Medico-legal autopsy in cases of poisoning including preservation and dispatch of viscera for chemical analysis	Toxicology
Forensic Med. & Toxicology	FM13.6	Describe the general symptoms, principles of diagnosis and management of common poisons encountered in India	Toxicology
Forensic Med. & Toxicology	FM13.7	Describe simple Bedside clinic tests to detect poison/drug in a patient’s body fluids	Toxicology
Forensic Med. & Toxicology	FM13.8	Describe basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination	Toxicology

Forensic Med. & Toxicology	FM13.9	Describe the procedure of intimation of suspicious cases or actual cases of foul play to the police, maintenance of records, preservation and dispatch of relevant samples for laboratory analysis.	Toxicology
Forensic Med. & Toxicology	FM13.10	Describe the general principles of Analytical Toxicology and give a brief description of analytical methods available for toxicologica analysis: Chromatography – Thin Layer Chromatography, Gas Chromatography, Liquid Chromatography and Atomic Absorption Spectroscopy	Toxicology
Forensic Med. & Toxicology	FM13.11	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination with regard to: Caustics Inorganic – sulphuric, nitric, and hydrochloric acids; Organic- Carbolic Acid (phenol), Oxalic and acetylsalicylic acids	Toxicology
Forensic Med. & Toxicology	FM13.12	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination with regard to Phosphorus, Iodine, Barium	Toxicology
Forensic Med. & Toxicology	FM13.13	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination with regard to Arsenic, lead, mercury, copper, iron.	Toxicology
Forensic Med. & Toxicology	FM11.14	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	Toxicology : Chemical Toxicology
Forensic Med. & Toxicology	FM13.15	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination with regard to Organophosphates, Carbamates, Organochlorines, Pyrethroids, Paraquat, Aluminium and Zinc phosphide	Toxicology

Forensic Med. & Toxicology	FM13.16	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination with regard to Ammonia, carbon monoxide, hydrogen cyanide & derivatives, methyl isocyanate, tear (riot control) gases	Toxicology
Forensic Med. & Toxicology			
Forensic Med. & Toxicology	FM13.17	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies 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	Toxicology
Forensic Med. & Toxicology	FM13.18	Describe General Principles and basic methodologies in treatment of poisoning: decontamination, supportive therapy, antidote therapy, competencies of enhanced elimination with regard to: iv. Narcotic Analgesics, Anaesthetics, and Muscle Relaxants v.Cardiovascular Toxicology Cardio toxic plants – oleander, Cerbera odollam, aconite, digitalis vi. Gastro- Intestinal and Endocrinal Drugs – Insulin	Toxicology

Forensic Med. & Toxicology	FM13.20	Describe features and management of abuse/poisoning of Tobacco, cannabis, amphetamines, cocaine, hallucinogens, designer drugs & solvent, Mushroom Poisoning, Food Poisoning	Toxicology
Forensic Med. & Toxicology	FM13.21	Describe toxic pollution of environment, its medico-legal aspects &toxic hazards of occupation and industry	Toxicology
Forensic Med. & 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
Forensic Med. & 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	Skills in forensic medicine & toxicology
Forensic Med. & 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	Skills in forensic medicine & toxicology
Forensic Med. & 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 environments	Skills in forensic medicine & toxicology
Forensic Med. & Toxicology	FM14.5	Examine and prepare Medical Certificate Of Cause Of Death (MCCD)in a simulated/ supervised environment	Skills in forensic medicine & toxicology
Forensic Med. & Toxicology	FM14.7	Demonstrate the correct technique to perform and identify ABO &RH blood group of a person	Skills in forensic medicine & toxicology
Forensic Med. & Toxicology	FM14.8	Demonstrate examination of & present an opinion after examination of skeletal remains in a simulated/ supervised environment	Skills in forensic medicine & toxicology
Forensic Med. & Toxicology	FM14.9	Demonstrate ability to identify & prepare medico legal 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

Forensic Med. & Toxicology	FM14.10	To identify & describe weapons of medico legal 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
Forensic Med. & Toxicology	FM14.11	Describe the contents and structure of bullet and cartridges used &to provide medico- legal interpretation from these	Skills in forensic medicine & toxicology
Forensic Med. & Toxicology	FM14.12	To estimate the age of foetus by post-mortem examination	Skills in forensic medicine & toxicology
Forensic Med. & Toxicology	FM14.13	To examine & prepare report of an alleged accused person in cases of various sexual offences in a simulated/ supervised environment. Demonstrate an understanding of framing the opinion, preservation and dispatch of trace evidencxes in such cases. Describe and discuss personal opinions and their impact on such examinations and the need for objectivity/ neutrality to avoid prejudice influencing the case.	Skills in forensic medicine & toxicology
Forensic Med. & Toxicology			
Forensic Med. & Toxicology	FM14.15	To examine & prepare medico-legal report of drunk person in a simulated/ supervised environment	Skills in forensic medicine & toxicology
Forensic Med. & Toxicology	FM14.16	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

Forensic Med. & Toxicology	FM14.17	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
Forensic Med. & Toxicology	FM14.18	To record and certify dying declaration in a simulated/ supervised environment	Skills in forensic medicine & toxicology
Forensic Med. & Toxicology	FM14.19	To collect, preserve, seal and dispatch exhibits for DNA-Fingerprinting using various formats of different laboratories.	Skills in forensic medicine & toxicology
Forensic Med. & Toxicology	FM14.20	To give expert medical/ medico-legal evidence in Court of law	Skills in forensic medicine & toxicology
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Biochem	BC1.1	Describe the molecular and functional organization of a cell and its sub- cellular components and composition and functions of Biologica membranes.	Basic Biochemistry
Biochem	BC2.1	Explain fundamental concepts of enzyme, isoenzyme and coenzyme. Enumerate the main classes of IUBMB nomenclature.	Enzyme
Biochem	BC2.2	Describe and explain the basic principles of enzyme activity	Enzyme
Biochem	BC2.3	Describe and discuss enzyme Inhibition and role of enzymes or drugs as Inhibitors, and enzymes as therapeutic agents.	Enzyme

Biochem	BC2.4	Describe and discuss the clinical utility of various serum enzymes in laboratory and their use as markers of various pathological conditions.	Enzyme
Biochem			
Biochem	BC2.5	Interpret laboratory results of enzymes in various disorders.	Enzyme
Biochem	BC3.1	Discuss and differentiate monosaccharides, di-saccharides and polysaccharides with examples, their importance as energy fuel structural element, and storage molecule in human body.	Chemistry and Metabolism of Carbohydrates
Biochem	BC3.2	Describe the digestion, absorption and transport of carbohydrates from food along with its disorders.	Chemistry and Metabolism of Carbohydrates
Biochem			
Biochem	BC3.3	Define and briefly describe the pathways of carbohydrate metabolism and their regulation (glycolysis, gluconeogenesis, TCA, and significance of glycogen metabolism and HMP shunt), with associated disorders.	Chemistry and Metabolism of Carbohydrates
Biochem	BC3.4	Describe and discuss the regulation, functions and integration of minor Carbohydrate Metabolism pathway briefly along with associated diseases /disorders.	Chemistry and Metabolism of Carbohydrates
Biochem	BC3.5	Discuss the mechanism and significance of blood glucose regulation (Glucose homeostasis) in health and disease. Describe the types, Biochemical changes, complications and laboratory investigations related to diabetes & other carbohydrate metal disorders.	Chemistry and Metabolism of Carbohydrates
Biochem			
Biochem			
Biochem			
Biochem	BC3.6	Interpret the results of analytes associated with metabolism of carbohydrates and other laboratory investigations related to disorders of carbohydrate metabolism.	Chemistry and Metabolism of Carbohydrates

Biochem			
Biochem	BC4.1	Describe and discuss main classes of lipids and their functions.	Chemistry and Metabolism of Lipids
Biochem	BC4.2	Describe the digestion and absorption of dietary lipids and its (associated disorders.	Chemistry and Metabolism of Lipids
Biochem			
Biochem	BC4.3	Describe and discuss the fatty acid oxidation, metabolism of ketone bodies along with their clinical significance.	Chemistry and Metabolism of Lipids
Biochem	BC4.4	Describe metabolism of Triglycerides and cholesterol metabolism along with its regulation and clinical significance.	Chemistry and Metabolism of Lipids
Biochem	BC4.5	Describe the metabolism of lipoproteins with brief overview of lipoprotein structure, their interrelations & relations with atherosclerosis.	Chemistry and Metabolism of Lipids
Biochem	BC4.6	Discuss Biological role and therapeutic applications of Eicosanoids and their Inhibitors.	Chemistry and Metabolism of Lipids
Biochem	BC4.7	Describe Fatty liver, cholelithiasis and obesity.	Chemistry and Metabolism of Lipids
Biochem	BC4.8	Interpret laboratory results of analytes associated with metabolism of lipids	Chemistry and Metabolism of Lipids
Biochem			
Biochem	BC5.1	Discuss briefly structure of amino acids and classify amino acids on the basis of Nutritional and Metabolic significance.	Chemistry & Metabolism of Proteins and Immunology
Biochem	BC5.2	Discuss classification of proteins, structural organization, functions and clinical aspects.	Chemistry & Metabolism of Proteins and Immunology
Biochem	BC 5.3	Describe the digestion and absorption of dietary proteins	Chemistry & Metabolism of Proteins and Immunology
Biochem			
Biochem			

Biochem	BC 5.4	Describe plasma proteins and their functions and brief overview of normal and abnormal electrophoretic pattern of serum proteins, acute phase proteins.	Chemistry & Metabolism of Proteins and Immunology
Biochem	BC 5.5	Describe the structure, functions and disorders of Immunoglobulins with brief description of cellular and humoral Immunity.	Chemistry & Metabolism of Proteins and Immunology
Biochem	BC 5.6	Describe the formation, transport, detoxification of Ammonia, Ammonia toxicity and its clinical significance.	Chemistry & Metabolism of Proteins and Immunology
Biochem	BC 5.7	Describe the specialized products formed from the amino acids Glycine, Phenylalanine, Tyrosine, Tryptophan, and Methionine, branched chain amino acids and Arginine and the inborn errors associated with them Discuss new-born screening.	Chemistry & Metabolism of Proteins and Immunology
Biochem	BC5.8	Describe the structure and functions of haem in the body and describe the processes involved in its metabolism with emphasis on jaundice and describe porphyrin metabolism.	Chemistry & Metabolism of Proteins and Immunology
Biochem		Describe the major types of Hemoglobin and its types, derivatives & variants found in the body and their physiological / pathological relevance	Chemistry & Metabolism of Proteins and Immunology
Biochem	BC5.9		
Biochem	BC6.1	Enumerate the functions and components of the extracellular matrix (ECM).	Extracellular Matrix
Biochem	BC6.2	Discuss the involvement of ECM components in health and disease.	Extracellular Matrix
Biochem	BC6.3	Describe protein targeting & sorting along with its associated disorders.	Extracellular Matrix
Biochem	BC7.1	Describe the integration of various metabolic processes in the body (Carbohydrate, Lipid, and Protein).	Integration of Metabolism and Biological Oxidation
Biochem	BC7.2	Describe the Biochemical processes involved in generation of energy in cells.	Integration of Metabolism and Biological Oxidation
Biochem	BC8.1	Describe the Biochemical role of vitamins in the body and explain the manifestations of their deficiency	Vitamins and Nutrition
Biochem	BC8.2	Discuss the importance of various dietary components and explain importance of dietary fibre.	Vitamins and Nutrition

Biochem	BC8.3	Describe the types and causes of protein energy malnutrition and its effects.	Vitamins and Nutrition
Biochem	BC8.4	Provide dietary advice for optimal health in childhood and adult in disease conditions like diabetes mellitus, coronary artery disease and in pregnancy.	Vitamins and Nutrition
Biochem	BC8.5	Describe the causes (including dietary habits), effects and health risks associated with being overweight/ obese / metabolic syndrome	Vitamins and Nutrition
Biochem	BC8.6	Summarize the nutritional importance of commonly used items of food including fruits and vegetables (macro-molecules & its importance).	Vitamins and Nutrition
Biochem	BC9.1	Describe the dietary sources, absorption, transport, and metabolism, Biochemical functions of Iron, Calcium and copper with its associated clinical disorders.	Minerals, electrolytes, Water and Acid base balance
Biochem	BC9.2	Discuss Magnesium, Zinc and Phosphorus along with its clinical significance and discuss the functions of trace elements	Minerals, electrolytes, Water and Acid base balance
Biochem	BC9.3	Describe the processes involved in maintenance of normal pH, water & electrolyte balance of body fluids and the derangements associated with them	Minerals, electrolytes, Water and Acid base balance
Biochem	BC10.1	Describe nucleotides and nucleic acids and their clinical significance.	Molecular Biology
Biochem	BC10.2	Describe briefly synthesis of purines in the body with special stress on salvage pathway.	Molecular Biology
Biochem	BC10.3	Describe the degradation of purines and its significance with associated disorders.	Molecular Biology
Biochem			
Biochem	BC10.4	Describe in brief the major steps involved in Replication, Transcription, and translation.	Molecular Biology
Biochem	BC 10.5	Describe the types of DNA repair, gene mutations and associated disorders.	Molecular Biology
Biochem	BC10.6	Describe basic mechanism of regulation of gene expression	Molecular Biology

Biochem	BC10.7	Describe applications of molecular technologies like recombinant DNA technology and PCR in the diagnosis and treatment of diseases. Briefly discuss microarray, FISH, CRISPR	Molecular Biology
Biochem	BC 11.1	Describe the function tests of kidney, liver, thyroid and adrenal glands and their clinical significance. Interpret the function tests report.	Organ Function tests and Hormones
Biochem			
Biochem			
Biochem	BC11.2	Enumerate the hormones and markers related to reproduction and reproductive health and their clinical interpretation (For e.g. LH, FSH, Prolactin, beta-HCG, Estrogen Progesterone, testosterone and AMH. Discuss importance of prenatal screening.	Organ Function tests and Hormones
Biochem	BC12.1	Describe the role of xenobiotics in disease in health and disease	Xenobiotic, oxidative stress and antioxidants
Biochem	BC12.2	Describe the anti-oxidant defense systems in the body.	Xenobiotic, oxidative stress and antioxidants
Biochem	BC12.3	Describe the role of oxidative stress in the pathogenesis of conditions such as cancer, complications of diabetes mellitus and atherosclerosis	Xenobiotic, oxidative stress and antioxidants
Biochem	BC 13.1	Describe oncogenesis, oncogenes & its activation with focus on p53 & apoptosis.	Miscellaneous
Biochem	BC 13.2	Describe various Biochemical tumor markers and the Biochemical basis of cancer therapy.	Miscellaneous
Biochem			
Biochem			
Biochem			
Biochem	BC13.3	Discuss briefly on HIV and Biochemical changes in AIDS.	Miscellaneous

Biochem	BC13.4	Discuss metabolism of alcohol with Biochemical changes and effects of chronic alcoholism.	Miscellaneous
Biochem	BC13.5	Describe the role of Artificial Intelligence in clinical Biochemistry laboratory practices.	Miscellaneous
Biochem	BC14.1	Describe commonly used laboratory apparatus equipments, good / safe laboratory practice, Biomedical hazards & waste management.	Biochemical Laboratory test / Practical
Biochem	BC14.2	Describe estimation of pH by pH meter or ABG analyser and interpretation of results with paper case scenarios.	Biochemical Laboratory test / Practical
Biochem	BC14.3	Describe the physical properties, chemical constituents of normal urine and abnormal constituents of urine and Perform urine analysis to determine normal and abnormal constituents (including dipsticks method demonstration).	Biochemical Laboratory test / Practical
Biochem	BC14.4	Identify abnormal constituents in urine, interpret the findings and correlate these with pathological states and prepare a urine report.	Biochemical Laboratory test / Practical
Biochem			
Biochem	BC14.5	Describe screening of urine for inborn errors & describe the use of paper chromatography	Biochemical Laboratory test / Practical
Biochem	BC14.6	Describe the principles of Colorimetry & Spectrophotometry.	Biochemical Laboratory test / Practical
Biochem			
Biochem	BC14.7	Perform estimation of glucose by manual / semi-automated analyzer method and demonstrate glucometer usage. and interpretation of results with clinical scenarios.	Biochemical Laboratory test / Practical
Biochem	BC14.8	Perform estimation of urea and calculate BUN and interpretation of results in clinical scenarios.	Biochemical Laboratory test / Practical
Biochem	BC14.9	Perform the estimation of serum creatinine and calculate creatinine clearance.	Biochemical Laboratory test / Practical
Biochem	BC14.10	Perform estimation of uric acid in serum and interpretation of results with clinical scenarios.	Biochemical Laboratory test / Practical
Biochem	BC14.11	Perform estimation of serum proteins, albumin and A:G ratio	Biochemical Laboratory test / Practical
Biochem			

Biochem	BC14.12	Perform the estimation of serum total cholesterol	Biochemical Laboratory test / Practical
Biochem	BC14.13	Perform the estimation of serum Bilirubin by manual / semi- automated analyzer method.	Biochemical Laboratory test / Practical
Biochem	BC14.14	Describe estimation of calcium and phosphorus and interpretation of results.	Biochemical Laboratory test / Practical
Biochem	BC14.15	Describe the estimation Triglycerides, HDL and calculation of LDL and interpretation of results with clinical scenarios.	Biochemical Laboratory test / Practical
Biochem	BC14.16	Describe the estimation of SGOT (AST) / SGPT (ALT) / Alkaline Phosphatase and interpretation of results with clinical scenarios.	Biochemical Laboratory test / Practical
Biochem			
Biochem			
Biochem	BC14.17	Describe briefly various body fluids & discuss the composition of CSF.	Biochemical Laboratory test / Practical
Biochem	BC14.18	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 • DNA isolation from blood/ tissue	Biochemical Laboratory test / Practical

Biochem	BC14.19	Explain the basis and rationale of Biochemical tests done and interpretation of laboratory results in the following conditions: - Diabetes mellitus, - Obesity, - dyslipidaemia, - Fatty liver - myocardial infarction, - Renal failure, - Gout, - Nephrotic syndrome, - Jaundice, - Liver diseases, pancreatitis, disorders of acid- base balance, - Thyroid disorders, - Genetic disorders - Nutritional disorders - Vitamin deficiency disorders, - Disorders of Mineral metabolism, - Disorders of electrolyte metabolism.	Biochemical Laboratory test / Practical
Biochem	BC14.20	Describe & Identify Pre-Analytical (especially order of draw, tourniquet technique), Analytical, Post Analytical errors.	Biochemical Laboratory test / Practical
Biochem	BC14.21	Describe Quality control and identify basic L J charts in Clinical biochemistry lab.	Biochemical Laboratory test / Practical
Biochem	BC14.22	Describe performance of OGTT, Glucose Challenge Test and HbA1c and interpretation of results with clinical scenarios.	Biochemical Laboratory test / Practical
Biochem	BC14.23	Calculate energy content of different food Items, identify food items with high and low glycaemic index and explain the importance of these in the diet.	Biochemical Laboratory test / Practical
Biochem	BC 14.24	Observe, Interpret and discuss the baseline, diagnostic, prognostic, and discharge investigations of clinical biochemistry.	Biochemical Laboratory test / Practical
Biochem			
Biochem			
Biochem			
Biochem			

Radiodiagnosis	RD1.1	Knowledgeable about the general principles of functioning of imaging modalities such as Plain Xray, Fluoroscopy, CT, Ultrasound, Nuclear medicine modalities (bone scan, PET) and MRI, to the extent that they would be able to (a) exhibit mindful behavior regarding the potential hazards associated with each imaging modality (b) make rational choices about the appropriateness of the modality for a particular purpose, such as what will be seen better in which modality (E.g.: air containing structures would be imaged better in x-ray than in ultrasound)	General principles of imaging equipment
Radiodiagnosis			
Radiodiagnosis	RD2.1	Obtain relevant clinical history to select patients for imaging modalities, in order to determine suitability for radiation exposure/contrast administration/exposure to magnetic fields (including allergies, renal function, pregnancy, implanted devices)	Rational choice of modality for a patient
Radiodiagnosis	RD2.2	Select the correct imaging modality and procedure for broad pathology type (infections, tumour, trauma, congenital), body part/system (CNS, head and neck, chest, abdomen and extremities) in adults, children and pregnancy women, mindful of unique needs of pediatric patients with respect to radiation and sedation.	Rational choice of modality for a patient
Radiodiagnosis	RD3.1	Awareness of different types of radiation and the stochastic and acute fracture, differentiating acute from chronic fracture etc.	Safety and legal requirements
Radiodiagnosis	RD3.2	Knowledgeable about best practices (time, distance and shielding) and provisions to keep x-ray exposure ALARA (as low as reasonably achievable) in clinical practice of radiology and general principles to be followed as per AERB regulatory guidelines	Safety and legal requirements
Radiodiagnosis	RD3.3	Knowledgeable about monitoring radiation exposure in health care workers with dosimeter such as thermoluminescent dosimeter and awareness of the units to measure radiation exposure in human Beings	Safety and legal requirements
Radiodiagnosis	RD3.4	Knowledgeable about the purpose and components of the PC-PNDT act relevant to a primary care physician	Safety and legal requirements

Radiodiagnosis	RD4.1	Collaborate with imaging specialists for optimum patient care - provide relevant and clear clinical information in requisitions for imaging, convey appropriate clinical urgency to facilitate correct scheduling of patients for imaging, clarify from imaging specialists when in doubt about appropriateness of imaging procedure	Interdisciplinary communication and interaction
Radiodiagnosis			
Radiodiagnosis			
Radiodiagnosis	RD4.2	Apply appropriate safety measures when transporting critically ill patients for imaging competencies such as checking adequacy of oxygen cylinder, following correct precautions in MRI room.	Interdisciplinary communication and interaction
Radiodiagnosis	RD4.3	For diseases that can be encountered by primary care physician such as osteoarthritis (x-ray), deep vein thrombosis, cholecystitis, apply anatomical-radiological-pathophysiology correlations as a basis of clinical reasoning and inter-disciplinary communication	Interdisciplinary communication and interaction
Radiodiagnosis	RD5.1	Interpretation of normal X-ray images of the Chest, Abdomen, Musculoskeletal system by identifying normal structures in Chest X- ray, Abdominal X-ray, Musculoskeletal X-ray (upper limbs, lower limbs, spine), PNS – Water's view in adults; normal neonatal Chest x-ray (thymic shadow identification); normal joint x-ray in children (epiphysis and growth plate identification)	Image interpretation
Radiodiagnosis	RD5.2	Age estimation from X-rays by selecting and using appropriate reference standards	Image interpretation
Radiodiagnosis	RD5.3	Image interpretation of emergency conditions in Chest Xray, Abdominal Xray and skeletal X-rays such as pneumoperitoneum,acute fracture, differentiating acute from chronic fracture etc.	Image interpretation
Radiodiagnosis	RD5.4	Image interpretation of normal/abnormal position of devices in the Chest X-ray of adult and pediatric ICU patients	Image interpretation
Radiodiagnosis	RD6.1	Ability to provide written and verbal instructions tailored to the patient and imaging procedure such as fasting requirement, medication adjustments, bowel preparation	Patient preparation for imaging competencies

Radiodiagnosis	RD7.1	Integrate provided imaging findings and description of appearances in the management of PCOD, ectopic pregnancy, evaluation of infertility in the Obstetrics and Gynecology Department	Role of imaging in hospital specialties
Radiodiagnosis	RD7.2	Integrate provided imaging findings and description of appearances in the management of ASOM/CSOM, evaluation of sensorineural hearing loss in the ENT Department	Role of imaging in hospital specialties
Radiodiagnosis	RD7.3	Integrate provided imaging findings and description of appearances in the management of stroke (CT brain), pulmonary embolism, findings associated with cardiac failure and liver parenchymal diseases in the Internal Medicine Department	Role of imaging in hospital specialties
Radiodiagnosis	RD7.4	Integrate provided imaging findings and description of appearances in the management of head injuries, hernia with strangulation, appendicitis and intestinal obstruction in the Surgery Department	Role of imaging in hospital specialties
Radiodiagnosis	RD7.5	Integrate provided imaging findings and description of appearances in the management chest infections, foreign body aspiration, Urinary Tract Infection in the Paediatrics Department	Role of imaging in hospital specialties
Radiodiagnosis	RD7.6	Integrate provided imaging findings and description of appearances in the screening for breast cancer and management of breast cancer patients.	Role of imaging in hospital specialties