DEPARTMENTAL ACTIVITIES

Student Educational Activities Under graduate (MBBS) education activities: -

• The educational mission for the department is to cultivate future leaders in Medicine. At present the department is actively involved in the teaching of undergraduate medical students. The Medicine curriculum starts in the 3rd semester of the MBBS program and continues up to 9th semester.

Clinical Teaching:

Students of three semesters are posted at a time in the department of medicine for learning the clinical skills, during the three hours of clinical class every day for each semester, the students are made to understand the cognitive basis of skills, these skills are demonstrated and finally they get an opportunity to practice these skills on patients under supervision.

<u>Lectures / Tutorials:</u>

The department has been allotted 4 Lectures & 2 tutorials per week for different semesters. The faculty in the department makes best effort to make these classes as interactive as possible. We are also arranging small group discussions and problem based learning sessions on a regular basis.

The final professional exam in the subject of Medicine was held for the first time in the institute in November 2016. The external examiners had come from Institute of National importance. Total number of students who appeared in the exam were 38 and all of them cleared the examination. Eleven students were detained due to attendance shortage. These eleven students appeared in supplementary examination and cleared the examination.

Internship Programme:

• Internshipprogrammeis being startedfrom 1st January of each year. Students are posted in medicine department according to the Intership Rotation Programme. Interns are actively involved in patient care in IPD patients. They are taught the skills of basic management in wards and also trained in dealing with medical emergencies. Interns are put on emergency duties along with the Residents so that they have hands on dealing with emergencies as well.

Inters are actively involved in departmental research activities.

Weekly seminars are held for Interns and Residents in the department for teaching purposes.

Post-Graduate programme:

• The department has started Post-graduate (PG) programme with six new PGs since July'2017. Every six months it will be refilled with newer PGs. They are backbone of the institute with regards to the patient care, academics, and research. It is a six-semester based three-year residency programme.

There is a well designed training schedule, including thesis evaluation, along with clinical and other academic teaching activities.

OPD services

The OPD services are being provided to patients on weekdays from 9:00 am and finished when all patients are seen. Patients with all communicable and non-communicable diseases are seen here.

Minor procedures like giving intra-articular injections given in OPD under all sterile conditions.

Special Clinic:

- 1. A dedicated **Diabetic Clinic** functions on every Mondays and Wednesdaysin room no. 1074 of the Medical OPD complex. Apart from giving treatment, these patients are counselled, are educated about the need for timely management of Diabetes by showing the real case scenarios.
- 2. A dedicated **Geriatric Clinic** functions on every Tuesdays in Medicine OPD area. It caters to the needs of the Geriatric population
- Other clinics run by the department are- Fever Clinic on Wednesdays, Lifestyle disease Clinic on Thursdays, Rheumatology Clinic on Fridays

IPD services

Apart from general wards, we the department is having a **four** bedded high dependency unit (HDU). We are also having a **six** bedded Stroke Unit

The department is doing all kinds procedures including **kidney biopsies**, **liver biopsies**, **giving intra-articular injections**, **performing lumber punctures**, **ascetic and pleural taps**.

Health awareness activities:

Department is actively involved delivering Public Lectures.

CME / Workshop/ Conference:

- Workshop on Systematic Review and Evidence Based Medicine on 7,8,9 July 2016
- Conducted Regional Round of Dr. SD Dheodar Rheumatology Quiz for postgraduates recently.

New Initiative/development for teaching & training:

- PBL and OSCE
- Seminars & Symposiums by students
- Case studies & Group discussions.
- Quiz.
- Interdepartmental CMEs

MEDICINE

The teaching and training in clinical subjects will commence at the beginning of third semester and continue throughout

The clinical subjects will be taught to prepare the MBBS graduates to understand and manage clinical problems at the level of a practitioner. Exposure to subject matter will be limited to orientation and knowledge required of a general doctor. Maximum attention to the diagnosis and management of the most common and important conditions encountered in general practice should be emphasised in all clinical subject areas. Instructions in clinical subjects should be given both in outpatient and in-patient during clinical posting.

Each of the clinical departments shall provide integrated teaching calling on pre-clinical, para- clinical and other clinical departments to join in exposing the students to the full range of disciplines relevant to each clinical area of study. Problem approach will be emphasised based on basic social sciences and a continuation of clinical and laboratory syllabi to optimally understand and manage each clinical condition.

The course shall comprise of:

Objectives: (Annexure I)

At the end of the course, the learner should be able to:

- 1. Elicit clinical history, perform thorough physical examination, elicit physical signs, interpret findings, develop differential diagnoses and request relevant laboratory investigations.
- Diagnose common clinical disorders with special reference to infectious diseases, nutritional disorders, life style diseases, tropical and environmental diseases.
- 3. Plan relevant diagnostic and investigative procedures and be able to interpret them.
- 4. Outline the principles of management and prevention of common health problems affecting the community.
- Plan and write prescription for comprehensive treatment using the principles of rational drug therapy

- 6. Provide first level care for common medical conditions and emergencies and recognize the timing and level of referral, if required.
- 7. Perform essential bedside procedures like venipuncture, SC and IM injections, biological fluid examinations.
- 8. Assist common bedside procedures like pleural aspiration, bone marrow aspiration and biopsy, lumbar puncture etc.
- 9. Resuscitate a patient efficiently by providing Basic Life Support in emergencies.
- 10. Develop an interest in the care for all types of patients.
- 11. Evaluate each patient as a person in society and not merely a collection of organ systems or symptoms and signs.
- 12. Discern the hopes and fears of patients, which underlie the symptom complexes and know how to handle these emotions, both in himself / herself and others.
- 13. Demonstrate skills in documentation of case details including epidemiological data.
- 14. Respect patients' rights and privileges including patients' right to information and right to seek a second opinion.
- 15. Demonstrate empathy and humane approach towards patients and their families and respect their sensibilities.
- 16. Demonstrate communication skills in interviewing patients, providing explanations to patients and families about the management and prognosis, providing counseling and giving health education messages o patients, families and communities.
- 17. Have an open attitude to the developments in Medicine so as to be aware of the need to keep abreast of new knowledge.
- 18. Learn and adopt new ideas and new situations where resources may be limited.
- 19. Comprehend, accept and manage the uncertainties in scientific knowledge and medical practice.
- 20. Understand the ethical and legal implications of his/her medical decisions.

Course content

	Topics	Must/should know know	Desirable to know	May know
1.	Good medical practice			
	The art of medicine, doctor-patient relationship, communication skills, doctor's responsibilities	Yes		
	The Approach to Grave Prognosis and Death		Yes	
	Medical Ethics and New Technologies		Yes	
	Electronic Medical Records			Yes
	Primary Care in Low- and Middle-Income Countries			Yes
	Challenges in health in low- and middle-income countries		Yes	
	Integrative Health Practices			Yes
	Clinical approach to disease and care of patients:			
	Clinical diagnostic reasoning i.e. diagnostic possibilities based on interpretation of history, physical findings and laboratory investigations	Yes		

	Palliative Care	1,00		
	Palliative Care	yes		
	Principles of rational management:			
		Yes		
	keeping in mind the best evidence in favor of or against different	res		
	remedial measures (EBM)			
2	Medical Ethics			
-	modical Ethios			
	Principles of medical ethics- Beneficience, non –maleficience,	Yes		
	patient autonomy, equity Different concepts- health ethics,	100		
	Brief introduction to perspectives of medical ethics: Hippocratic	Yes		
	Oath, declaration of Helsinki, WHO declaration of Geneva,	163		
		Yes		
	Ethics of the individual: Confidentiality, physician patient	165		
	relationship, Patient autonomy, organ donation			
	Death and dying, and Euthanasia		Yes	
	Boatt and dying, and Editionable		1.00	
	Ethics of human life: In vitro fertilization, prenatal sex-		Yes	
	determination, surrogate motherhood, genetic engineering		103	
	determination, surrogate mothernood, genetic engineering			
	Professional ethics: Code of conduct, fee charging and splitting,	Yes		
	allocation of resources in health care			
	Family and society in medical ethics: Family planning , Care of	Yes		
	terminally ill/dying patient	. 55		
	torring in dying patient			
	Ethical work up of cases: Gathering information, gain	Yes		
	confidentiality, shared decision making, informed consent			
	Research ethics: animal and experimental research, human			Yes
	experimentation, informed consent, drug trials			. 55
	Practice of universal precautions	Yes		
	Traditioe of aniversal presaditions	100		
	Bio medical waste: types, potential risks and their safe	Yes		
	management.	103		
	PEP Prophylaxis	Yes		
	FEF Flophylaxis	165		
	Lland washing	Yes		
	Hand washing	res		
	Common Commutants of Disease			
2	Common Symptoms of Disease	\/		
	Pain: pathophysiology, clinical types, assessment and	Yes		
	management			
	Fever: clinical assessment and management	Yes		
	Rare causes of Fever of unknown origin			Yes
	Cough, chest pain, dyspnoea, hemoptysis	Yes		
	Edema, anasarca, ascites	Yes		
	Pallor, jaundice	Yes		
	Bleeding	Yes		
	Anorexia, nausea and vomiting	Yes		
	Constipation and diarrhea	Yes		
	Hematemesis, malena and hematochezia	Yes		
	Common urinary symptoms- dysuria, pyuria, anuria, oliguria,	Yes		
L	polyuria, nocturia, enuresis	<u> </u>		
	Body pains and joint pains	Yes		
	Headache, seizures, fainting, syncope, dizziness, vertigo	Yes		
	Disturbances of consciousness and coma	Yes		
	Weight loss and weight gain	Yes		
	Clinical genetics – common types, clinical presentation,			Yes
	investigation and prevention of genetic diseases and genetic			
	counseling			
	Medial disorders and pregnancy	Yes		
3	Nutrition and Nutritional Disorders	1.50		
<u> </u>	Nutritional assessment & needs	Yes		
	Transciar acceptant a neede	1.00		

	Protein energy malnutrition	Yes				
	Obesity	Yes				
\vdash	Vitamin deficiency & excess	Yes				
\vdash	Mineral deficiency and excess	Yes				
\vdash	Diet therapy	Yes				
4	Fluid, Electrolyte and Acid-base Imbalance	165				
4		Voc				
	Fluid and electrolyte balance; acidosis and alkalosis in particular	Yes				
	relevance to diarrhea, vomiting, dehydration, uremia and diabetic					
-	ketoacidosis					
5	Poisonings, Stings and Bites	\/				
\vdash	General approach to the poisoned patient	Yes				
	Poisoning by specific pharmaceutical agents- organophosphorus	Yes				
	compounds					
\vdash	Debendance with declarity and the selection of a selection					
	Poisoning: methyl alcohol, narcotics, aluminium phosphide,			yes		
	sedatives / hypnotics, other poisonings common locally					
\vdash						
\sqcup	Drugs of misuse	Yes				
	Snake bite and Envenomation	Yes				
	Other bites and stings – scorpion, spider	1	Yes	i		
6	Specific Environmental and Occupation Hazards	1				
	Heatstroke and hypothermia	Yes				
	Chemicals and pesticides	Yes				
	Drowning and near drowning	Yes				
	Electrical injuries	Yes				
	Radiation injury				Yes	
	Heavy metal poisoning				Yes	
7	Immune Response and Infections	Yes				
	Approach to infectious diseases – diagnostic and therapeutic	Yes				
	principles					
	Immune defense mechanisms		Yes		+	
		Voc	165			
	Laboratory diagnosis of infections	Yes Yes				
	Principles of immunization and vaccine use	res			Voc	
	Immunodeficiency disorders – acquired				Yes	
	Immunodeficiency disorders – congenital	1 1/			Yes	
	Clinical syndromes – diagnostic and therapeutic approach	Yes				
	The febrile patient					
	Fever and rash					
	Fever of unknown origin Information and the condition					
	Infective endocarditis					
	Intra-abdominal infections and abscesses					
	 Acute infectious diarrhoeal diseases and food poisoning 					
	 Sexually transmitted diseases – overview & clinical 					
	approach					
	Infections of skin, muscle & soft tissues					
1 1	 Osteomyelitis 					
	•	1	1			
	Hospital acquired infections				1	
	Hospital acquired infectionsInfections in immuno-compromised hosts					
0	Infections in immuno-compromised hosts					
8	Infections in immuno-compromised hosts Specific Infections – Epidemiology, clinical features,					
8	Infections in immuno-compromised hosts					
8	Infections in immuno-compromised hosts Specific Infections – Epidemiology, clinical features, laboratory diagnosis, rational use of antimicrobial therapy					
8	Infections in immuno-compromised hosts Specific Infections – Epidemiology, clinical features,					
8	• Infections in immuno-compromised hosts Specific Infections – Epidemiology, clinical features, laboratory diagnosis, rational use of antimicrobial therapy and their prevention:					
8	 Infections in immuno-compromised hosts Specific Infections – Epidemiology, clinical features, laboratory diagnosis, rational use of antimicrobial therapy and their prevention: Protozoal infections 	Wa-				
8	 Infections in immuno-compromised hosts Specific Infections – Epidemiology, clinical features, laboratory diagnosis, rational use of antimicrobial therapy and their prevention: Protozoal infections Amoebiasis, Giardiasis, Malaria, Leishmaniasis Trichomoniasis 	Yes				
8	 Infections in immuno-compromised hosts Specific Infections – Epidemiology, clinical features, laboratory diagnosis, rational use of antimicrobial therapy and their prevention: Protozoal infections Amoebiasis, Giardiasis, Malaria, Leishmaniasis Trichomoniasis Toxoplasmosis, Trypanosomiasis 	Yes Yes				
8	 Infections in immuno-compromised hosts Specific Infections – Epidemiology, clinical features, laboratory diagnosis, rational use of antimicrobial therapy and their prevention: Protozoal infections Amoebiasis, Giardiasis, Malaria, Leishmaniasis Trichomoniasis 					

Common gram-negative infections	Yes		
Enteric fever	Yes		
Tetanus	Yes		
Pertussis and diphtheria		Yes	
Legionella infections			Yes
Botulism			Yes
Gas gangrene, other clostridia infections		Yes	
Cholera	Yes		
Shigellosis and bacillary dysentery		Yes	
Brucellosis			Yes
Plague		Yes	
Leptospirosis	Yes		
Donovanosis (Granuloma inguinale)		Yes	
Helicobacter Pylori	Yes		
Infections due to pseudomonas & other gram- negative bacteria	Yes		
Anaerobic infections		Yes	
Mycobacterial diseases			
Tuberculosis	Yes		
Leprosy	Yes		

prosy		res			
	Viral infections				
	Common exanthemata e.g. Measles, mumps, rubella, varice	ella	Yes		
	Herpes simplex and herpes zoster		Yes		
	Influenza and other common viral respiratory infections		Yes		
	Human immunodeficiency virus (HIV)		Yes		
	Viral gastroenteritis		Yes		
	Dengue fever		Yes		
	Rabies		Yes		
	Viral encephalitis		Yes		
	Infectious mononucleosis			Yes	
	Rickettsia, Mycoplasma & Chlamydial diseases			Yes	
	Infections in immunocompromised host		Yes		
	Common fungal infections e.g.Candidiasis, Aspergillosis, Histoplasmosis, Cryptococcosis, Mucormycosis, Pneumocys carinii.		Yes		
	Common worm infestations e.g. hookworm, roundworm, threworm	ead	Yes		
9	Cardiovascular system				
	Clinical examination of the cardiovascular system		Yes		
	Functional anatomy, physiology and investigations		Yes		
	Major manifestations of cardiovascular disease		Yes		
	Chest pain, breathlessness, palpitation, Acute circulatory fail				
	(cardiogenic shock) Presyncope and syncope, Cardiac arres				
	sudden cardiac death, Abnormal heart sounds and murmurs	S.			
	ECG, x ray chest with reference to common CVS diseases		Yes		
	Acute and chronic congestive cardiac failure		Yes		
	Rheumatic fever and rheumatic heart disease		Yes		
	Valvular heart disease				
	Infective endocarditis		Yes		
	Coronary artery disease		Yes		
	Common congenital heart disease in the adults: ASD, VSD, TOF and coarctation of aorta	PDA,	Yes		
	Cor pulmonale		Yes		
	Hypertension and hypertensive heart disease		Yes		
	Common cardiac arrhythmias		Yes		
	Deep vein thrombosis		Yes		
	Atherosclerosis and peripheral vascular disease			Yes	
	Pericardial disease: pericardial effusion and cardiac tampon	ade	Yes		
	Aortic aneurysm			Yes	
	Myocarditis and cardiomyopathy			Yes	
10	Respiratory system				
	Clinical examination of the respiratory system		Yes		
				_	

	Respiratory physiology and diagnostic investigations – x ray	Yes		
	chest, sputum examination, pulmonary function tests			
	Bronchoscopy		Yes	
	Nuclear Medicine Techniques in respirartory system			Yes
	Major manifestations of lung disease			
	Cough, dyspnoea,chest pain, haemoptysis, the solitary	Yes		
	radiographic pulmonary lesion, Acute and chronic respiratory			
	failure			
	Upper respiratory infections	Yes		
	Pneumonias	Yes		
	Bronchial asthma	Yes		
	Chronic obstructive pulmonary disease	Yes		
	Pulmonary tuberculosis: different presentations	Yes		
	Suppurative lung diseases: bronchiectasis, lung abscess	Yes		
	Cystic Fibrosis	163	Yes	
	Pleural diseases – effusion, empyema, pneumothorax	Yes	163	
	Interstitial and infiltrative lung diseases	Yes		
!	Common occupational lung diseases	Yes		
	Tumors of the bronchus and lung	Yes		
	Pulmonary vascular diseases	Yes		
	Pulmonary hypertension			
	 Pulmonary thromboembolism 			
	Acute respiratory distress syndrome	Yes		
	Obstructive sleep apnoea		Yes	
	Diseases of the nasopharynx, larynx and trachea		Yes	
	Diseases of the mediastinum, diaphragm and chest wall		Yes	
	Lung Transplantation			Yes
1	Renal and genito-urinary system			
	Renal physiology and common renal function tests: urine	Yes		
	examination, renal function tests, common imaging methods			
	Cellular and Molecular Biology			Yes
	of the Kidney			
	Major manifestations of renal and urinary tract disease: Dysuria,	Yes		
	pyuria, urethral symptoms, disorders of urine volume, hematuria,			
	proteinuria, oedema, incontinence, obstruction of the urinary tract.			
	Acute renal failure	Yes		
	Chronic renal failure	Yes		
	Urinary tract infections and pyelonephritis	Yes		
	Congenital abnormalities of the kidneys and urinary system	100		Yes
	Glomerulonephritides and nephrotic syndrome	Yes		103
	Tubulo-interstitial diseases	1 53	Yes	
	Renal involvement in systemic disorders	Yes	163	
		Yes		
	Drugs and the kidney	162	Voo	
	Renal vascular diseases	Ves	Yes	
	Urinary tract calculi and nephrocalcinosis	Yes	\\\	
	Tumors of the kidney and genitourinary tract		Yes	
	Renal replacement therapy: basics		Yes	
	Transplantation in the Treatment			Yes
	Gastrointestinal tract			
	Clinical examination of the abdomen	Yes		
	Basic investigations: stool examination, role of imaging,	Yes		
	endoscopy and tests of functions.			
		No.		
	Major manifestations of gastrointestinal disease Abdominal pain (acute and chronic), dysphagia, dyspepsia, vomiting, constipation, diarrhea, abdominal lump, weight loss, gastrointestinal bleeding-upper and lower, approach to the patient with gastrointestinal disease	Yes		

	Diseases of the mouth and salivary glands – oral ulcers, candidiasis, Parotitis.	Yes		
	Diseases of the oesophagus – GERD, other motility disorders, oesophagitis, carcinoma oesophagus.	Yes		
	Diseases of esophagous: CONGENITAL ANOMALIES			Yes
	Diseases of the stomach and duodenum-gastritis, peptic ulcer disease, tumors of stomach.	Yes		
	Disease of the small intestine	Yes		
	Acute gastroenteritis & food poisoning , acute, sub-acute and chronic intestinal obstruction, intestinal tuberculosis	163		
	Inflammatory bowel disease Malabsorption syndrome	Yes		
	Tumors of small intestine			Yes
	Disorders of the colon and rectum Bacillary dysentery, amoebic colitis ,ulcerative colitis Irritable bowel disease	Yes		
	Tumors of the colon & rectum		Yes	
	Abdominal tuberculosis :peritoneal,nodal, gastrointestinal	Yes		
	Ischaemic gut injury	163		Yes
	Anorectal disorders		Yes	169
		Yes	162	
	Diseases of the peritoneal cavity :acute and chronic peritonitis, ascites	163		
13	Disease of pancreas			
	Acute and chronic pancreatitis	Yes		
	Tumors of pancreas		Yes	
14	Hepatobiliary tract disease	1		'
	Clinical examination of the abdomen for liver and biliary disease	Yes		
	Functional anatomy, physiology, liver function tests, basics of role of imaging of the hepatobiliary disease	Yes		
-	Major manifestations of liver disease	Yes		
	'Asymptomatic' abnormal liver function tests	165		
	Jaundice			
	Acute (fulminant) hepatic failure			
	 Portal hypertension and ascites 			
	Hepatic (porto-systemic encephalopathy)			
	Hepatorenal failure		Yes	
	Liver abscess- amoebic & pyogenic	Yes		
	Acute and chronic hepatitis –viral and toxic	Yes		
	Alcoholic liver disease	Yes		
	Cirrhosis of liver and chronic liver disease	Yes		
	Fatty liver and non alcoholic steatohepatitis	Yes		
	Infiltrative diseases of liver		Yes	
	Intrahepatic biliary diseases			Yes
	Vascular liver diseases			Yes
	Acute and chronic 'cholecystitis', cholelithiasis	Yes		
	Tumors of gall bladder and bile ducts	1	Yes	
15	Endocrine and Metabolic disorders			
	Diabetes mellitus: aetiopathogenesis, diagnosis, management,	Yes		
	recognition of acute and chronic complications, and immediate management of acute complications, special problems in			
	, , , , , , , , , , , , , , , , , , , ,			

	management.			
	Hypo and hyperthyroidism – major manifestations, recognition, interpretation of thyroid function tests	Yes		
	lodine deficiency disorders	Yes		
	Cushing's syndrome and Addison's disease - recognition	Yes		
	Pituitary disorders: Acromegaly and Sheehan's syndromes		Yes	
	Calcium and phosphorus metabolism: parathyroid and metabolic	Yes		
	bone Disease.			
	Hypogonadism		Yes	
	Hypopituitarism and hyperpituitarism		Yes	
	Hypothalamic disorders		Yes	
	Hypoparathyroidism and hyperparathyroidism		Yes	
	Diseases affecting multiple endocrine Glands		1.00	Yes
6	Hematological disorders			1.00
_	<u> </u>	Yes		
	Definition, prevalence, etiological factor, pathophysiology, pathology, recognition, investigations and principles of treatment of: • Anemias: iron deficiency, megaloblastic and common	res		
	haemolytic anemias (thalassemia, sickle cell and acquired hemolytic) • Common bleeding disorders (thombocytopenia and			
	hemophilia) Agranulocytosis and aplastic anemia			
	Leukemias: Recognition, diagnosis, differential diagnosis and broad principles of management	Yes		
	Lymphomas: Recognition , diagnosis , differential diagnosis and broad principles of management	Yes		
	Blood group and transfusion: Major blood group systems and		Yes	
	histo compatibility complex, concepts of transfusion and			
	component therapy; indications for transfusion therapy,			
	precautions to be taken during blood transfusion, hazards of			
	transfusion and safe handling of blood and blood products.			
	Disorders of coagulation and venous thrombosis	Yes		
	Bone marrow transplantation		Yes	
	Oncologic Emergencies		Yes	
7	Disorders of the Immune System, Connective Tissue and			
	Joints			
	Introduction to the immune system and autoimmunity	Yes		
	Allergies, Anaphylaxis, and systemic mastocytosis	1		ves
	Primary immune deficiency diseases			Yes
	Autoimmunity and autoimmune diseases		Yes	1.00
	Systemic Lupus Erythematosus, Antiphospholipid Syndrome,	Yes	100	
	Rheumatoid Arthritis, Acute Rheumatic Fever, Systemic	103		
	Sclerosis (Scleroderma), and Related Disorders, Amyloidosis			
	Behçet's Syndrome, Relapsing Polychondritis, IgG4-Related			yes
	Disease, Vasculitic syndromes			
	Polymyositis, Dermatomyositis, and Inclusion Body Myositis		yes	
	Recognition of major manifestations of musculoskeletal disease:	Yes		
	-	-	•	•

	Approach to articular and musculoskeletal disorders	Yes		
-	Musquisokalatal manifestations of disease in other systems	Yes		
-	Musculoskeletal manifestations of disease in other systems	165		
-	Diseases of bone		Voc	
40	Neurological Diseases	Vaa	Yes	
18	Clinical examination of nervous system	Yes		
	Functional anatomy, physiology and investigations : EEG,	Yes		
	Major manifestations of nervous system disease:Headache and	Yes		
	facial pain, raised intracranial tension, faintness, dizziness,			
	Migraine and cluster headaches	Yes		
	Seizures and epilepsy	Yes		
	Cerebrovascular disease	Yes		
	Dementias including Alzhiemer's disease		Yes	
	Acute and chronic meningitis	Yes		
	Viral encephalitis	Yes		
	Diseases of cranial nerves		Yes	
	Intracranial tumours		Yes	
	Diseases of spinal cord – transverse myelitis and cord	Yes		
	Multiple sclerosis and other demyelinating diseases	1.00	Yes	
	, ,			
	Parkinson's disease and other extrapyramidal disorders		Yes	
	Cerebellar disorders	Yes		
	Motor neuron disease		Yes	
	Peripheral neuropathy		Yes	
	Neurological manifestations of system diseases	Yes		
	Nutritional and metabolic diseases of the nervous system		Yes	
	Myasthenia gravis and other diseases of neuromuscular	Yes		
	Diseases of muscle		Yes	
	Recognition of brain death	Yes		
	Primary and metastatic tumours of the Central Nervous System		Yes	
	Clinical Pharmacology and Therapeutics			
19	Principles of drug therapy	Yes		
	Adverse drug reactions	Yes		
	Drug interactions	Yes		
	Monitoring drug therapy		Yes	
	J J 17			
	Rational prescription writing	Yes		
	Concept of essential drugs	1	Yes	
20	Critical Care Medicine		1.00	
	Physiology of the critically ill patient	Yes		
	Recognition of major manifestations of critical	Yes		
	illness, circulatory failure: shock, respiratory failure, renal	163		
	failure, coma, sepsis, disseminated intravascular coagulation.			
	General principles of critical care management	Yes		
	Scoring systems of critical care		Yes	
	Outcome and costs of intensive care			Yes
	Ethical issues related to critical care	Yes		
21	Pain Management and Palliative Care			
	General principles of pain	Yes		
	Assessment and treatment of pain	Yes		
	Palliative care	1.55	Yes	
22	Geriatrics		1.55	
	Principles of Geriatric Medicine	Yes		
	Normal ageing	Yes		
	Clinical assessment of frail elderly	Yes	+	
	Decisions about investigations and rehabilitation	Yes	-	
	Major manifestations of diseases in elderly	Yes		
		Yes		
	Special issues for care of elderly	res		

Teaching and Learning methods

Lectures, Small group discussions, Seminars, Algorithms, Problem Based Learning, Videography, Integrated teachings and e-modules.

Skills

Skill labs, Role play, Problem based - paper and real cases, Integrated teaching and Field visits.

INFECTIOUS DISEASES AND ENVIRONMENTAL MEDICINE

Symposia / Modules

- 1. Fever with rash
- FUO
 Rodenticide, aluminum phosphide, CuSO4, drug overdosage, methyl alcohol and others (2 symposia)

- 4. Diarrhoea and dysentery
- 5. HIV infection (Symposium)

DISEASES OF THE GASTROINTESTINAL TRACT AND LIVER DISEASES

ymposia / Modules

- 1. Ascites
- 2. Jaundice
- 3. Chronic diarrhea

NEPHROLOGY

Symposia / Modules

- 1. Glomerulopathies, tubular disorders.
- 2. Drugs and the kidney.

HEMATOLOGY

Symposia

- 1. Anemia.
- 2. Bleeding disorders.

ENDOCRINOLOGY

Symposia / Modules

- 1. Interpretation of thyroid and adrenal function tests.
- 2. Diabetic emergencies / endocrine emergencies.

NEUROLOGY

Symposium

- 1. COMA
- 2. Neurological emergencies (Status epilepticus, others)

CARDIOLOGY

Symposia / Modules

1. Heart failure.

2. Hypertension.

RESPIRATORY SYSTEM

Symposia / Modules

- a) Pulmonary Function Tests, sputum examination and chest radiograph interpretation
- b) Laboratory investigations in respiratory disease
 c) Respiratory emergencies Acute respiratory failure, chronic respiratory failure, status asthmaticus.

Paper 1

Topics	Weightage
Infection and Tropical diseases	30
Nutrition and Its disorders	20
Genetics and Aging	10
Disturbance of water, electrolyte and acid base imbalance	20
Specific Environmental and Occupation Hazards	15
Respiratory system	25
Good medical practice	5
Common symptoms of diseases	15
Psychiatry	40

Paper 2

Topics	Weightage
Neurological disorders.	25
Gastroenterology Tract and Hepato-biliary System	25
Cardiovascular System	25
Critical Care Medicine & Poisoning.	10
Endocrinal diseases, Diabetes mellitus & Metabolism	25
Diseases of Connective tissue, joints and bones	25
Diseases of kidney and urogenital System	25

Dermatology & S.T.D	40

Reference books: (Annexure III)

- 1. Harison Principles of internal Medicine
- 2. Davidson Principle and Practice of medicine
- 3. Mcleod's Clinical methods
- 4. Hutchison's Clinical Methods