

AMNA INAYAT MEDICAL COLLEGE



AIMC-MBBS,

MEDICINE & Allied Specialties

SYLLABUS (PMDC/UHS)

&

ACADEMIC PLANNER

2018-2019

DEPARTMENT OF MEDICINE & ALLIED – AIMCS

Focal Person: Dr. Mahmood Ahmed
Approved By: Prof. Dr. Shoaib Randhawa

Faculty: Prof. Dr. Muhammad Shoaib Randhawa Professor, HOD Medicine
Dr. Mahmood Ahmed Assistant Prof. Medicine

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MISSION STATEMENT

Department Of Medicine

Department Of Medicine is the backbone of any teaching hospital. Department has more than 100 beds and consists of two independent units.

Our mission is to produce quality doctors by imparting quality medical education to them so that they can serve the ailing humanity in the best way.

We also offer the best services to the patients who are admitted in the inpatients department and also to those who visit our outpatient department. Students are thought in OPD and on the bed sides on admitted patients. The department of medicine has different sections like cardiology, pulmonology and gastroenterology. Cardiology section we offer echocardiography, ETT, cardiac monitoring, defibrillation and other related services.

Pulmonology section offers critical care, pulmonary functions test, and bronchoscopy. Arterial blood gases are done in the pathology department and facilities of CT scan, MRI, X-Ray's through the sister department of radiology.

In the gastroenterology section, gastroscopy and colonoscopy are performed along with other associated procedures.

We really intend to serve the mankind in a much better way. Almost all patients are offered free services in the coming days department of medicine is going to be the center of excellence in Sheikhpura district. Development of department of medicine and Kishwar Fazal teaching hospital is really a blessing for the patients in the catchment area of this hospital because they are socially economy deprived people.

Resource Person

Prof. Dr. Shamshad Rasul Awan

DEPARTMENT OF MEDICINE FACULTY AND STAFF

1	Professor& HOD	Prof. Muhammad Shoaib Randhawa	MBBS, FCPS
2	Professor	Prof. Shamshad Rasul Awan	MBBS, MCPS, FCPS,
3	Associate Professor	Dr. Muhammad Afzal Bhatti	MBBS, FCPS(Medicine), FCPS, Gastroenterology
4	Associate Professor	Dr. Ashfaq Ahmad	MBBS, MD
5	Associate Professor	Dr. Mushtaq Ahmad	MBBS, FCPS,
6	Assistant Professor	Dr. Muhammad Aleem ud Din	MBBS,FCPS
7	Assistant Professor	Dr. Ahmad Asghar	MBBS, FCPS
8	Post Graduate Resident	Dr. Hassan Shoaib	MBBS
9	Post Graduate Resident	Dr. Habiba	MBBS

PMDC TABLE OF SPACING AND HOURS OF SUBJECTS IN MBBS COURSE

SUBJECT	1 ST YEAR	2 ND YEAR	3 RD YEAR	4 TH YEAR	5 TH YEAR	TOTAL HOURS
BEHAVIOURAL SCIENCES	5HRS	5HRS	5HRS	5HRS	5HRS	25HRS
ISLAMIC PAKISTAN AND STUDIES	15HRS	15HRS	10HRS	10HRS	-	50HRS
ANATOMY	250HRS	250HRS	-	-	-	500HRS
PHYSIOLOGY	250HRS	250HRS	-	-	-	500HRS
BIOCHEMISTRY	100HRS	100HRS	-	-	-	200HRS
PHARMACOLOGY	-	-	300HRS	-	-	300HRS
PATHOLOGY	15HRS	25HRS	260HRS	200HRS	-	500HRS
FORENSIC MEDICINE	-	-	100HRS	-	-	100HRS
COMMUNITY MEDICINE	25HRS	25HRS	50HRS	150HRS	-	250HRS
MEDICINE AND Allied NUCLEAR MEDICINE EMERGENCY MEDICINE MEDICINE ELECTIVE PSYCHIATRY DERMATOLOGY AND GENERAL PRACTICE	25HRS	30HRS 10HRS	120HRS -	265HRS 10HRS	360HRS -	800HRS 20HRS
PAEDIATRIC MEDICINE	5HRS	10HRS	15HRS	50HRS	70HRS	450HRS
SURGERY AND ALLIED RADIOLOGY ORTHOPEDECS PAEDS SURGERY NEUROSURGERY SURGERY ELECTIVE EMERGENCY SURGERY & ANAESTHESIA	25HRS 5HRS	30HRS 10HRS	120HRS -	265HRS 10HRS	360HRS 15HRS	800HRS 40HRS
OBSTETRICS AND GYNAECOLOGY	10HRS	10HRS	50HRS	100HRS	130HRS	300HRS
OPHTHALMOLOGY	5HRS	10HRS	15HRS	70HRS	-	100HRS
OTORHINOLARYNGOLOGY(ENT)	5HRS	10HRS	15HRS	70HRS	-	100HRS
CLINICOPATHOLOGICAL CONFERENCE	-	-	-	60HRS	-	60HRS
TOTAL	740 HRS	790HRS	1060HRS	1265HRS	940HRS	4795HRS

PMDC CURRICULUM

MEDICINE

GENERAL MEDICINE

By the end of five years, medical students should be able to identify and discuss the common causes of common clinical presentations. Causes in detail can be discussed under various other headings.

- ☐ Fever
- ☐ Edema

- ☐ Headache
- ☐ Drowsiness and unconsciousness
- ☐ Clubbing
- ☐ Cough
- ☐ Sputum and haemoptysis
- ☐ Chest pain.
- ☐ Dyspnea
- ☐ Shock

- ☐ Painful and difficult swallowing
- ☐ Anorexia, nausea and vomiting
- ☐ Abdominal pain
- ☐ Diarrhea and constipation
- ☐ Urination abnormalities
- ☐ High colored urine

- ☒ Cachexia
 - o Involuntary movements o Seizures
 - o Paresis and paralysis
 - o Numbness and paresthesias
- ☒ Weakness and lassitude o Dizziness and vertigo o Joint pains
- ☒ Nutrition (re-enforcement)
- ☒ Geriatrics
- ☒ End-of-Life Care
- ☒ Preventive aspects
- ☒ Ethical problems
- ☒ Communication Skills

GASTROENTEROLOGY

- ☒ Oral Cavity Presentations:
 - o Aphthous Ulcers*⁶, Pigmentation (Addison`s), Gingivitis, Glossitis* (Candida, Plummer-Winson Syndrome, Vitamin B2 and folate deficiency).
- ☒ Nausea/Vomiting
 - o Hepatitis**, Gastro-enteritis**, Bacterial food poisoning, Acid peptic disease**
- ☒ Indigestion/Flatulence
 - o Diet, Irritable Bowel Syndrome and Gastroparesis
- ☒ Dysphagia**
 - o Of Solids: Carcinoma Esophagus (with cachexia)* and Achalasia*.
 - o Of Liquids: Psychogenic and Neuro-Muscular Disorders (Dementia, Bulbar Palsy and Scleroderma)

☐ Heartburn and/or Epigastric pain

- o Gastro Esophageal Reflux Disease**, Peptic ulcer and Gastritis**.

☐ Diarrhea

- o Acute Diarrhea due to Acute Gastro-enteritis: Viral**, Shigellosis**, Salmonellosis**, Traveler`s diarrhea**
- o Chronic Diarrhea: Amebiasis**, Giardiasis*, Malabsorption syndromes like Celiac Disease* and Tropical Sprue

Some areas are more important for medical students to know as compared to others and have been identified by the number of asterisks (No asterisk= nice to know, * = Important, ** and *** = Essential).

- o With Haematochezia Inflammatory bowel diseases: Ulcerative colitis* and Crohn`s Disease*
- o Irritable bowel syndrome*.
- ☒ Constipation*.
- o Irritable Bowel Syndrome, Diet and sedentary life style, Hypothyroidism, Carcinoma descending colon
- ☒ Ascites**.
- o Chronic Liver Disease**, Malignancy*, Abdominal tuberculosis**.
- ☒ Jaundice**.
- o Congenital hyperbilirubinemia (Gilbert Syndrome and Dubin Johnson Syndrome)
- o Wilson`s Disease
- o Haemolytic: Malaria, Auto-immune, Hypersplenism
- o Differentiate from Obstructive (Re-enforcement) *: Gall Stones, Carcinoma Pancreas, Cholangitis, Obstructive phase of Hepatitis
- o Hepatic**: Viral** (acute and chronic), Toxic and Drugs).
- ☒ Haematemesis and / or Melena**.
- o Esophageal varices*, Mallory Weiss Syndrome, Carcinoma Stomach, Cirrhosis of Liver** and Bleeding peptic ulcer**.
- ☒ Bleeding per rectum*.
- o Bacillary dysentery, Inflammatory Bowel Disease, Hemorrhoids*, and Amoebic dysentery**.
- ☒ Abdominal Pain
- o Acid peptic Disease**, Irritable Bowel Syndrome*, Carcinoma stomach, Pancreatitis* and Porphyria
- ☒ Abdominal Mass: Visceromegaly
- o Liver: Hepatitis**, Liver abscess*, Hydatid Cyst, Congested Liver*, and Carcinoma (Primary and Secondary)
- o Spleen: Portal Hypertension, Chronic Malaria, Chronic Myeloid Leukemia, and Myelofibrosis
- o Splenomegaly with fever**: Malaria**, Typhoid**, Infective* endocarditis and Miliary tuberculosis*, Visceral Leishmaniasis,
- o Kidney (see below)
- o Abdominal Aneurysm
- ☒ Altered Mentation: Hepatic Encephalopathy** and other causes of altered mentation.
- o Drugs Contraindicated in Liver Diseases*.

KIDNEY AND GENITOURINARY SYSTEM

- ☐ Lumbar pain**.
 - Acute pyelonephritis**, Acute papillary necrosis, Renal Infarction, Perinephric abscess (Surgery) * and Urolithiasis (Surgery).
- ☐ Oliguria/Anuria: Acute Kidney Injury**:

Nephritides**, Acute Tubular Necrosis**, Drug-induced* (analgesic), Hypersensitivity nephropathy*, Contrast Induced* and (brief) Haemolytic-uremic syndrome

- ☐ Polyuria / nocturia
 - o Diabetes mellitus**, Diabetes insipidus, Hypercalcaemia**,
 - o Chronic Kidney Disease: Glomerulopathies**, Nephrotic Syndrome**, Hyperuricemia, Drug-induced and Hemolytic uremic syndrome (brief)
 - o Psychogenic*.
- ☐ Dysuria*: With and without frequency of Micturition (Urinary Tract infection) **
- ☐ Hematuria with Dysuria*.
 - o Cystic infection of the bladder**, Urethritis and Urolithiasis
 - o Painless Hematuria*: Renal Tuberculosis*, Renal Cell Carcinoma* and Bladder carcinoma
- ☐ Urinary incontinence
 - o Urge Incontinence (Urinary infection* and Bladder neck problems) and Stress
- ☐ Urinary retention
 - o Prostatic Enlargement* and Neurogenic bladder
- ☐ Impotence
 - o Diabetes mellitus and Psychogenic
- ☐ Renal glycosuria*.

Should know the commonly prescribed (analgesics and antibiotics) drugs contraindicated and drugs to be used with caution in renal insufficiency**.

RESPIRATORY SYSTEM

- ☐ Shortness of Breath
 - o Episodic: Bronchial Asthma**
 - o Acute: Pneumothorax**, Pulmonary Thrombo-embolism** / Acute Cor Pulmone, Adult respiratory distress syndrome, Acute respiratory failure* (Type I and II) and Mechanical ventilation

- o Chronic: Chronic obstructive airway diseases**, Pleural Effusion**, Environmental and Occupational lung diseases (in brief: Asbestosis, Silicosis, Bagassosis, Byssinosis and Pneumoconiosis), Hypersensitivity pneumonitis and Interstitial lung disease.

- ☐ Fever with Cough

- o Upper respiratory tract infection**

- o Lower respiratory tract infection: Acute and chronic Bronchitis**

- o Pneumonias**: Community acquired, Nosocomial, Lobar and Bronchopneumonia.

- ☐ Cough with Sputum: Bronchiectasis* Hemoptysis: Carcinoma lung* and Tuberculosis**

☒ Respiratory Distress

- o Type-I Respiratory Failure: Pneumonia**, Pulmonary Edema** and Pulmonary Embolism **
- o Type-II Respiratory Failure: Chronic Obstructive Pulmonary Disease (COPD) **

Should be able to debate and select appropriate drugs and treatment for Tuberculosis, Asthma, COPD, and Pneumonia, based on their indications, drug interactions, contra-indications and complications.

Should know the drugs contra-indicated and those to be used with caution in pulmonary disease.

CARDIOVASCULAR SYSTEM

Fever with Murmur*

Rheumatic fever** and Infective endocarditis**

Shortness of breath with Murmur

Mitral, Aortic and Pulmonary valve diseases

Palpitations

Sinus tachycardia*, Paroxysmal Supraventricular Tachycardia**, Acute atrial Fibrillation and atrial flutter**, and Premature atrial and ventricular contractions**

Chest Pain**

Angina**, Myocardial infarction**, Constrictive pericarditis, and Pericardial effusion

Shortness of breath*

Orthopnea and/or Paroxysmal Nocturnal Dyspnea**, Left Ventricular Failure**, Congestive Cardiac Failure**, Cor pulmonale and Cardiomyopathies (brief).

Congenital heart diseases (brief): atrial septal defect, patent ductus arteriosus and ventricular septal defect

Hypertension**

Atherosclerosis/Arteriosclerosis** and Lipid Disorders**

Secondary Hypertension*: Renal Causes* (Polycystic Kidney, Renal Artery Stenosis, Renal Parenchymal Diseases) and Endocrine Disorders** (Gigantism, Acromegaly, Cushing`s*, Hyperthyroidism and Pheochromocytoma)

Postural Hypotension*.

Autonomic neuropathy (Diabetes mellitus) and Drug-induced (Anti-hypertensives, Loop diuretics* and Nitrates)

Claudication: Peripheral vascular disease and Ischemia

Shock**: Arrhythmias (ventricular tachycardia, fibrillation) and asystole.

Syncope*: Arrhythmias, Vasovagal attack and Heat syncope

CENTRAL NERVOUS SYSTEM

- ❑ Headache**.
 - o Acute Severe: Sinusitis** and Subarachnoid and Intra-cerebral Hemorrhage**.
 - o Periodic: Refractive errors, Migraine* and Tension Headaches*
 - o Progressive: Space-occupying lesion
 - o With Fever**: Meningitis** (Bacterial, Tuberculosis and Viral),

Encephalitis** and Brain abscess.
 - o Nuchal headaches/Neck pain: Muscle spasm (Tension, Postural) and Cervical spondylosis*.
- ❑ Facial Pain: Trigeminal neuralgia
- ❑ Squint: Cranial nerves III, IV and VI (Cavernous sinus thrombosis)
- ❑ Intellectual Impairment
- ❑ Impaired Memory and Dementia*
- ❑ Confusional states/Delirium/Encephalopathy**: Substance abuse, Toxins and Poisons
- ❑ Paralysis*.

Hemiplegia/hemiparesis/monoplegia/quadruplegia**: Thrombotic, Hemorrhagic and Embolic

Paraplegia/paraparesis/quadruplegia*: Spinal cord compression, Secondaries in the spine, Transverse Myelitis*, Tuberculous spine*, Syringomyelia and Syringobulbia

Focal Neurological Deficit: Multiple sclerosis, Space occupying lesion and Mononeuritis multiplex
- ❑ Facial Weakness: Bell's Palsy**
 - o Ptosis: Myasthenia Gravis, Horner's Syndrome and III nerve palsy
 - o Transient Ischemic Attack**
- ❑ Speech disturbances
- ❑ Hypertonia: Myotonia Dystrophica and Parkinsonism *
- ❑ Hypotonia and muscle wasting: Lower motor neuron disease,*
- ❑ Muscle cramps: Metabolic, Overexertion and Idiopathic
- ❑ Movement Disorders:

- o Hyperkinesia: Tremors* (Hyperthyroidism**, Anxiety*, Drug-induced, Parkinsonism, Cerebellar*)
- o Fasciculations: Motor neuron disease and Myokymia,
- o Others: Athetosis, Chorea, Hemiballismus, Ballismus, Myoclonus and Carpopedal Spasm (tetany)*
- o Hypokinesia: Parkinson"s Disease and Drug induced
- o Gait abnormalities:
 - Ataxic: Cerebellar disorder*
 - Shuffling gait: Parkinsonism*
 - Scissor Gait: Cerebral palsy
 - Lurching gait: Post Cerebro-vascular accidents

- ❑ Joint pain and/or Joint swelling:
 - o Monoarthritis* or Polyarthritis*
 - o Large Joint involvement: Osteoarthritis, Septic arthritis*, Haemarthrosis and polyarthritis migrans* (Rheumatic fever)
 - o Small joint involvement (Inflammatory): Rheumatoid Arthritis*, Systemic Lupus Erythematosus* and Gout*
- ❑ Easy Fractures: Osteoporosis*
- ❑ Bone Pain:
 - Osteomalacia*, Osteomyelitis, Hyperparathyroidism, Malignancy (Multiple Myeloma, Osteosarcoma, Secondaries in the bone and Leukemias)
- ❑ Neck Pain: Cervical spondylosis* and Tension
- ❑ Dorsal Pain: Tuberculosis*
- ❑ Low back pain: Sciatica (Herniated disc) *, Inflammatory (Ankylosing spondylitis and Sacro-iliitis), Secondaries, Lumbar spondylosis,

Mechanical/postural, Vertebral Collapse (Tuberculosis and Osteoporosis)

- ☐ Claudication: Spinal stenosis**
- ☐ Increased skin elasticity and hypermobility of joints: Ehler's Danlos syndrome and Marfan's Syndrome
- ☐ Muscle stiffness and pain: Depression, Anti-psychotic drugs and Fibromyalgia

BLOOD

Pallor: Anaemias.

- ☐ Microcytic Hypochromic (Iron deficiency)**: Increased Loss and Decreased uptake (Malabsorption, Tuberculosis and Hookworms)
 - ☐ Macrocytic Megaloblastic** (B-12 deficiency and Folic acid deficiency),
 - ☐ Normocytic normochromic*: Anemia of chronic inflammation, Malignancies and Renal failure
 - ☐ Hemolytic anemia*: Hereditary (Thalassemia*, Sickle cell anemia, Hereditary spherocytosis), Acquired (Blood Transfusion incompatibility, Autoimmune and Valve replacement)
 - ☐ Intra-corporal: G6P Deficiency, Malaria, Sickle cell syndromes (brief) and Thalassemias
 - ☐ Extra-corporal Intravascular
 - o Aplastic anemia: Myelofibrosis and Drug-induced Hepatosplenomegaly (Myeloproliferative diseases).
 - ☐ With pallor: Chronic myeloid leukemia and Kala Azar
 - ☐ Without pallor: Polycythemia rubra vera, Essential thrombocytosis
- Pallor with Lymphadenopathy and/or lassitude
- ☐ Leukemias**: Acute and Chronic and
 - ☐ Lymphomas**: Non-Hodgkin's and Hodgkin's.
- Blood groups and blood transfusion**.

Fever with lymphadenopathy: Infectious mononucleosis

Bleeding and / purpura

- ☐ Clotting Disorders: Decreased production and increased destruction of Von Willebrand's disease,
 - o Disseminated intravascular coagulation (DIC) **, o Hemophilia
 - o Vitamin K deficiency
 - o Anticoagulant Therapy*: Injectable and oral including anti-platelet agents

- ☐ Bleeding Disorders: Epistaxis (Hypertension), Thrombocytopenia (Immune/ Idiopathic* and Acquired Thrombocytopenic purpura), Vessel wall disorders, Thrombocytic Dysfunction and Drug-induced bleeding (Polypharmacy).

METABOLIC AND ENDOCRINAL DISORDERS

Generalized Pigmentation

- ☐ Endocrinal: Addison's Disease, with Diabetes Mellitus
(Haemochromatosis in brief)
- ☐ Drug-induced: Chloroquine, Heavy Metals and Chemotherapy

Polyuria and Polydipsia: Diabetes mellitus*** and hyperglycemic states**.

Growth Abnormalities:

- ☐ Tall stature: Gigantism and Acromegaly
- ☐ Short Stature: Hypothyroidism**, Obesity: Cushing's syndrome and Hypothyroidism**
- ☐ Infertility: Hypogonadism, Primary Ovarian failure and Sheehan's Syndrome

INFECTIOUS DISEASES

- ☐ Common infections in the organ-systems listed above,
- ☐ With emphasis on those common in Pakistan: Tuberculosis, Malaria, Typhoid, Dengue, Pneumonias, Meningitides and encephalitides, Infectious mononucleosis and
- ☐ Those of global importance

By the end of 5 years, medical graduates should be able to perform and/or provide:

1. Basic Life Support (MANDATORY).
2. Inject I/V, I/M, S/C, intradermal injections

3. Insert and maintain I/V lines.
4. Administer Blood transfusion (Know the indications, contra-indications and complications of blood transfusions).
5. Treatment for Acute Pulmonary Edema and anti-platelet therapy
6. Oxygen therapy
 - o Should know the indications, complications, different modes of Oxygen delivery
7. Peak expiratory flowmetry.
8. Nebulisation
9. Educate the patient regarding correct inhaler technique
10. Should be able to take an Electrocardiogram
 - o Should be able differentiate normal electrocardiograms from common abnormalities of ischemia, left ventricular hypertrophy and arrhythmias (acute myocardial infarction/ischemia, complete heart block, atrial premature contractions, ventricular premature contractions, supraventricular tachycardia, ventricular tachycardia, left bundle branch block and hyperkalemia)

11. Prepare a slide for examination of Malarial Parasite and its examination.
12. Urinary catheterization and collect urine samples
13. Urinalysis by dipstick or other method.
14. Large bowel enema.

Interpret and/or identify:

The common radiological findings of bone and joint diseases (Rheumatoid arthritis, Osteoarthritis, Vertebral collapse, Caries spine, Cervical rib, etc.)

Should know the indications, contra-indications to order tests appropriately and should be able to interpret reports of

- ☐ Order and interpret results: urinalysis, culture and sensitivity, serum creatinine, blood urea, protein estimation, creatinine clearance, ultrasound etc.
- ☐ Echocardiography, Stress testing, Angiography, and the conclusions of Thallium Scan
- ☐ Pulmonary function tests.
- ☐ Arterial blood gas estimations
- ☐ Thyroid function tests
- ☐ Understand the conclusion of HR CT of the lungs.

Should know the indications, contra-indications and complications for

- ☐ Holter monitoring, Nitrate Infusion, and Digitalization.

PROCEDURES TO BE OBSERVED/ASSISTED: Preferably on patients but Videos can be an alternative (including the indications, contra indications, steps of the procedure and complications)

- ☐ Passing the N/G Tube, and feeding, suction and stomach wash.

UHS CURRICULUM

MEDICINE

Distribution of subjects

Paper-I All except Paper-II

Paper-II will include:

- | | |
|--------------------------|-------------------------------------|
| 1. Infectious Diseases | 7. Endocrinology including Diabetes |
| 2. Metabolic Diseases | 8. Genitourinary System |
| 3. Immunology | 9. Genetics |
| 4. Oncology | 10. Water and Electrolyte Balance |
| 5. Acid and Base Balance | 11. Psychiatry |
| 6. Dermatology | |

1. CARDIOLOGY

The course outline is as follows :

- Rheumatic fever and infective endocarditis.
- Valvular heart diseases.

- Mitral valve
 - Aortic valve
- Ischaemic heart disease.
 - Angina
 - Myocardial infarction
- Cardiac arrhythmias
 - Atrial fibrillation
 - Ventricular tachycardia
 - Premature atrial and ventricular beats.
- Heart failure.
 - Left ventricular failure.
 - Congestive cardiac failure.
 - Cor pulmonale.
- Congenital heart diseases (brief).
 - Cyanotic/acyanotic heart diseases.
 - Fallot's tetralogy
 - Atrial septal defect
 - Ventricular septal defect
 - Patent ductus arteriosus
- Cardiomyopathies
- Pericardial diseases.
- Constrictive pericarditis

- Pericardial diseases
- Pericardial effusion
- Atherosclerosis/arteriosclerosis.
- Hypertension.
- Peripheral vascular disease.
 - Symptoms and signs
 - Arteriosclerosis
 - Acute & chronic ischaemia of the leg
 - Aneurysms
 - Buerger's disease
 - Raynaud's disease
 - varicose veins
 - Venous thrombosis
- Investigations.
 - Electrocardiography, Xray chest, Echocardiography, Thallium Scan, Stress Testing, Holter And Angiography Etc.

CLINICAL TRAINING:

Important Topics To Be Discussed:

Case discussion for diagnosis and management of common cardiovascular diseases.

- Systemic hypertension
- Ischaemic heart diseases
- Congestive cardiac failure
- Valvular diseases and infective endocarditis

Understand the Symptomatology to reach the Differential Diagnosis:

Palpitation, breathlessness, chest pain, raised JVP, jaundice etc.

Skills To Be Learnt:

- History taking in CVS.
- GPE in CVS – clubbing, koilonychia, osler’s nodes, splinter haemorrhages, cyanosis.
- Pulse, JVP, blood pressure.
- Inspection, palpation of precordium.
- Percussion, auscultation of precordium – mitral, tricuspid, aortic, pulmonary areas.
- Interpretation of related radiological and laboratory investigations
- General medication and prescription writing in CVS diseases.

Procedures (Observe/ Assist):

- ECG taking and basic reading i.e. Normal, Acute MI, Ischemia, complete heart block, APC, VPC, SVT, VT etc.

- X-ray chest interpretation – (Cardiology).
- Should observe, learn and even may assist electroversion therapy (DC shock) with indications, complications etc.
- Observe Echo and should recognize chambers and valves on echo print.
- Observe pericardial effusion aspiration.
- Should learn thrombolytic therapy,
heparinisation/anticoagulation therapy and control, anti-platelet therapy, nitrates infusion, digitalization, treatment of acute pulmonary edema, o₂ therapy.
- Cardiac monitoring.
- Basics of ETT.

2. PULMONOLOGY

COURSE OUTLINES:

- Asthma.
- Environmental lung diseases/occupational.
 - Asbestosis
 - Silicosis
 - Bagassosis
 - Pneumoconiosis
 - Byssinosis
 - Farmer's lung
- Pneumonia
 - Community acquired
 - Nosocomial
 - Lobar and bronchopneumonia

- Adult respiratory distress syndrome
- Acute respiratory failure
- Mechanical ventilation.
- Bronchiectasis.
- Chronic obstructive airway diseases.
 - Chronic bronchitis
 - Emphysema
- Interstitial lung diseases.
- Pulmonary thromboembolism
- Acute cor pulmonale.
- Type-I and type-II respiratory failure
- Pleural effusion.
- Pneumothorax.
- Tuberculosis
- Tumors of the lung
- Disorders of chest wall and pleura
- Chest trauma
- Deformities of the rib cage

- Dry pleurisy, pleural effusion, empyema, pneumothorax.
- Basics of pulmonary function tests.
- Imaging in pulmonary diseases/investigations

CLINICAL TRAINING:

Important Topics To Be Discussed:

Case discussion for diagnosis and management of common pulmonary diseases.

- Bronchial asthma
- Pleural effusion
- Pneumonia
- Hemoptysis
- Pulmonary tuberculosis
- Chronic obstructive airway disease
- Type-I and type-II respiratory failure
- Bronchogenic carcinoma

Understand the Symptomatology to reach the Differential Diagnosis:

- Breathlessness
- Wheezing
- Haemoptysis
- Orthopnoea
- Paroxysmal nocturnal dyspnoea (PND)
- Pain in calf on walking
- Undue coldness, redness or blueness of extremities
- Chest pain

- Cough/expectoration/sputum

Skills To Be Learnt:

- History taking in respiratory system – dyspnoea, cough, expectoration, haemoptysis.
- Chest pain, wheezing.
- Inspection, palpation, percussion, auscultation front of chest.
- Inspection, palpation, percussion, auscultation back of chest.
- Interpretation of related radiological and laboratory investigations.
- Interpretation of pulmonary function tests.
- General medication and prescription writing in pulmonology
- Any deficient program.

Procedures (Observe/ Assist):

- How to start O₂ therapy, indications, complications.
- Learn pleural aspiration and assist
- Endotracheal suction, assist

- Pleural biopsy, observe
- FNA biopsy, observe
- Under water seas aspiration, observe/assist
- Management of respiratory failure
- Observe bronchoscopy

3. DERMATOLOGY

COURSE OUTLINES:

- Anatomy, physiology of skin related to clinical dermatology
- Infestations: scabies, pediculosis.
- Bacterial and mycobacterial infections
- Fungal and viral diseases.
- Acne vulgaris
- Eczemas.
- Psoriasis
- Lichen planus
- Bullous disorders.
- Pigmentary disorders
- Disorders of nails.
- Disorders of hairs.
- Sexually transmitted diseases.

CLINICAL TRAINING:

Important Topics To Be Discussed:

Case discussion for diagnosis and management of common dermatological diseases.

Should recognize lesions of:

- Leprosy
- Syphilitic lesions (chancre, secondary syphilis, gumma)
- Tinea (corporis, capitis, inguinale, unguam)
- Candida (oral, skin)
- Scabies
- Lice
- Mosquito bite
- Acute & chronic eczema
- Lesions of small pox, chicken pox, herpes simplex, herpes zoster
- SLE.
- Psoriasis
- Lichen planus
- Impetigo contagiosum
- Moluscum contagiosum
- Acne vulgaris

- Seborrhoea
- Exfoliative dermatitis
- Skin neoplasm like squamous cell carcinoma, basal cell carcinoma and melanoma
- Leukoderma
- Pityriasis versicolor
- Alopecia and hirsutism
- Sexually transmitted diseases
- Furunculosis, cellulitis
- Drug eruption

Understand the Symptomatology to reach the Differential Diagnosis:

- Alopecia
- Eruption and rashes
- Itching
- Pigmentation and depigmentation

Skills To Be Learnt:

- History taking in Dermatology
- Clinical examination of various skin lesions
- Interpretation of related radiological and laboratory investigations
- General medication and prescription writing in Dermatology

Procedures (Observe/ Assist):

- Scraping for fungus
- Use of magnifying glass

- Observe skin biopsy
- Use of Wood's lamp

4. Neurology and Central Nervous System

COURSE OUTLINES:

- o Infections and inflammatory lesions

Meningitis

- Bacterial.
- Tuberculous.
- Viral etc.

Brain abscess

Encephalitis

Hydrocephalus

- o Epilepsy and other convulsive disorders

- o Cerebrovascular diseases (stroke).

- Ischemic
- Embolism
- Infarction

- Haemorrhage
 - Intra-cerebral
 - Subarachnoid
- o Dementia and Alzheimer's disease.
- o Parkinson's disease and other movement disorders. o Motor neuron disease.
- o Multiple sclerosis.
- o Cranial nerve disorders.
 - Transient mono-ocular blindness (amaurosis fugax).
 - Trigeminal neuralgia.
 - Facial palsy (Bell's).
 - Vertigo, nystagmus
- o Spinal cord disorders.
 - Spinal cord compression
 - Hemiplegia, paraplegia, quadriplegia
 - Myelitis.
 - Spondylosis.
 - Syringomyelia and syringobulbia.
- o Peripheral nerve disorders.
 - Peripheral polyneuropathy
 - Gullian Barry syndrome
 - Mononeuritis multiplex.
- o Space occupying lesions of brain and spinal cord. o Muscular dystrophies
- o Myopathies, myasthenia gravis

CLINICAL TRAINING:

Important Topics To Be Discussed:

Case discussion for diagnosis and management of common CNS disorders:

- Cerebrovascular accident
- Paraplegia
- Polyneuropathy
- Muscular dystrophies and Motor neuron disease
- Parkinsonism
- Meningitis
- Tetanus
- Hemiplegia
- Facial Palsy

Understand the Symptomatology to reach the Differential Diagnosis:

- Behaviour
- I.Q
- Speech disturbances

- Memory
- Confusional states
- Dementia
- Tremor
- Fasciculations
- Athetosis
- Chorea
- Gait abnormalities
- Convulsions/fits
- Coma
- Syncope/dizziness
- Vertigo
- Deafness
- Blindness
- Numbness, tingling, sensory loss
- Rigidity / paralysis.
- Movement disorders

Skills To Be Learnt:

- History taking in CNS.
- Higher mental functions – level of consciousness, behaviour, speech, memory.
- Examination of cranial nerves.
- Examination of motor system.
- Examination of sensory system – crude touch, pain, temperature.
- Fine touch, pressure, vibration, joint position.

- Cortical sensations
- Two point localization, two point discrimination.
- Reflexes
- Examination of cerebellar system
- Examination of nystagmus
- Examination of rigidity
- Assessment of movement disorders
- Interpretation of related radiological and laboratory investigations
- General medication and prescription writing in Neurology

Procedures (Observe/ Assist):

f Observe and learn lumbar puncture

5. ALIMENTARY SYSTEM

COURSE OUTLINES:

- o Oral cavity
 - Infections and inflammatory disorders
 - Benign and malignant diseases
- o Esophagus.
 - Dysphagia with special reference to
 - Ca oesophagus
 - GERD
 - Achalasia
 - Candidiasis of oral cavity and oesophagus o
- Stomach
 - Gastritis.
 - Peptic ulcer
- o Intestines
 - o Malabsorption syndromes.
 - o Tropical sprue
 - o Coeliac disease
 - o Inflammatory bowel diseases.
 - Ulcerative colitis
 - Crohn's disease
 - o Irritable bowel syndrome (IBS). o Liver
 - o Ascites.
 - o Jaundice.

o Congenital hyperbilirubinaemia o
Gilbert syndrome

o Dubin Johnson syndrome

o Rotor syndromes o
Haemolytic

o Obstructive o
Hepatitis

o Viral, acute and chronic o
Toxic

o Drugs

o Auto immune hepatitis. o
Cirrhosis of liver.

o Hepatic encephalopathy.

o Carcinoma liver and transplant. o Acute
and chronic pancreatitis.

o Upper GI bleeding, lower GI bleeding o Drugs
contraindicated in liver diseases

CLINICAL TRAINING:

Important Topics To Be Discussed:

Case discussion for diagnosis and management of common gastrointestinal and hepatobiliary diseases.

- Acid peptic disease
- Tender hepatomegaly
- Hepatosplenomegaly
- Jaundice
- Chronic liver disease
- Acute and chronic diarrhoea
- Variceal bleeding and peptic ulcer bleeding.
- Abdominal Koch's infection

Understand the Symptomatology to reach the Differential Diagnosis:

- Oral ulceration
- Dysphagia
- Heart burn
- Nausea/vomiting
- Indigestion/flatulence
- Diarrhoea and constipation
- Melena, hematemesis, bleeding per rectum
- Jaundice
- Hepatomegaly

- Abdominal distension/ascites

Skills To Be Learnt:

- History taking in GIT – vomiting, diarrhoea, pain abdomen, constipation, haematemesis, melena, dyspepsia, distension.
- Examination of GIT –
- Inspection, palpation.
- Percussion, auscultation.
- Interpretation of related radiological and laboratory investigations
- General medication and prescription writing in GIT diseases.
- Any deficient programme.

Procedures (Observe/ Assist):

- Learn N/G tube passing and feeding
- Learn and observe aspiration of peritoneal fluids
- Learn and observe endoscopies, upper and lower GIT
- Preparing a patient for GI endoscopies

6. KIDNEYS AND URINARY SYSTEM

COURSE OUTLINES:

- Acute renal failure.
- Chronic renal failure
- Nephrotic syndrome.
- Nephritic syndrome.
- Urinary tract infections
 - Infections of the kidneys
 - Infections of the lower urinary tract
- Inflammatory lesions of the kidneys
- Introduction to dialysis & renal transplant
- Drugs causing renal disease (brief).
 - Analgesic nephropathy.
 - Lead, uric acid, hypercalcemia, radiation & hypersensitivity
 - Nephropathy.
 - Drugs contra indicated in renal insufficiency
 - Drugs to be used with caution in renal disease.
- Polycystic kidneys.
- Renal vascular disorders
 - Renal artery stenosis
 - Renal vein thrombosis
 - Tumours
- Hemolytic uremic syndrome.

- Prostatic diseases

CLINICAL TRAINING:

Important Topics To Be Discussed:

Case discussion for diagnosis and management of common Renal & Urinary system diseases

- Nephrotic syndrome
- Nephritic syndrome
- Acute renal failure
- Chronic renal failure

Understand the Symptomatology to reach the Differential Diagnosis:

- Lumbar /pelvic pain
- Anuria, oliguria
- Hematuria
- Dysuria, pyuria
- Urgency / frequency of micturation

- Urinary retention
- Urinary incontinence
- Nocturia

Skills To Be Learnt:

- History taking – lumbar pain, anuria, oliguria, hematuria, dysuria, urgency/frequency of micturition, pyuria, urinary retention, nocturia, urinary incontinence, pelvic pain.
- Examination of abdominopelvic and lumbar area
- Inspection, palpation, percussion, auscultation.
- Interpretation of related radiological and laboratory investigations
- General medication and prescription writing in upper & lower urinary tract diseases.

Procedures (Observe/ Assist):

- Observe and assist insertion of Foley’s catheter/Red rubber catheter
- Learn and observe peritoneal and hemodialysis
- Indications and outcomes of renal transplant
- Observe I/V urograms

7. ENDOCRINOLOGY

COURSE OUTLINES:

- o Anterior pituitary.
 - Growth hormone disorders o Acromegaly
 - o Gigantism.

- o Short stature

- Infertility

- o Diseases of hypothalamus and posterior pituitary.

- Empty sella syndrome

- Diabetes insipidus

- Syndrome of inappropriate ADH secretion (SIADH).
- o Thyroid gland.

- Hyperthyroidism (thyrotoxicosis)

- Hypothyroidism (myxedema, cretinism)

- Inflammatory lesions

- Benign and malignant tumors

- o Adrenal Gland.

- Cushing Syndrome

- Aldosteronism Primary/Secondary.

- Hirsutism.

- Addison's disease

- Acute Addisonian crisis

f Inflammatory lesions

Adrenocortical tumors including Pheochromocytoma o
Endocrine Pancreas

Diabetes mellitus and hypoglycaemic states

Other associated endocrine disorders

o Testes

Sexual precocity

Heterosexual precocity

Gynaecomastia

Inflammations

Tumours

o Multiple endocrine neoplasia

Type I

Type II

CLINICAL TRAINING:

Important Topics To Be Discussed:

Case discussion for diagnosis and management of common endocrine disorders

- Diabetes mellitus
- Thyroid diseases
- Cushing's disease
- Infertility and common reproductive disorders

Skills To Be Learnt:

- History taking and correlate with a specific diagnosis.
- Examination of thyroid gland, male and female genital organs etc.
- Interpretation of related radiological and laboratory investigations
- General medication and prescription writing in endocrinology

8. RHEUMATOLOGY

COURSE OUTLINES:

- o Osteoarthritis
- o Osteoporosis
- o Rheumatoid arthritis and related arthropathies
- o Paget's disease of the bone.
- o Osteopetrosis (marble bone disease).
- o Multiple myeloma
- o **Multi-System Immunological Diseases** o Systemic lupus erythematosus (SLE)
- o Serum sickness

- o Systemic sclerosis (scleroderma).

- o Mixed connective tissue diseases (brief). o Sjogren's syndrome (brief).

- o Ankylosing spondylitis.

- o Bechet's syndrome (brief).

- o Vasculitis syndromes (brief). o Anaphylactoid purpura

- o Polyarteritis nodosa

- o Hypersensitivity vasculitis o Wegner's granulomatosis o Temporal arteritis

- o Takayasu's arteritis

- o Thromboangitis obliterans (Burger's disease) o Sarcoidosis (brief).

CLINICAL TRAINING:

Important Topics To Be Discussed:

Case discussion for diagnosis and management of common rheumatological diseases.

- Rheumatoid arthritis
- Osteoarthritis
- Multiple Myeloma
- SLE etc.

Understand the Symptomatology to reach the Differential Diagnosis:

- Joint pain and joint swelling
- Joint deformities
- Muscle cramps
- Muscle weakness
- Muscular wasting
- Other related systemic signs and symptoms

Skills To Be Learnt:

- History taking and correlate with a specific diagnosis.
- Examination and assessment of the pattern of involvement of bones, joints, skin and other organs
- Interpretation of related radiological and laboratory investigations
- General medication and prescription writing in rheumatology.

Procedures (Observe/ Assist):

- Observe aspiration of fluids from joints (knee)
- Observe bone marrow aspiration/terphine

9. METABOLIC DISORDERS

COURSE OUTLINES:

Hyperlipidemia

Hemochromatosis

Porphyrias

Wilson's disease

Gout and hypercalcemia

Storage diseases.

Lipid.

- Leukodystrophies
- Niemann pick disease.
- Gaucher's disease.

Glycogen.

- Fabry's disease.

Hereditary connective tissue disorders

Osteogenesis imperfecta.

Ehler's danlos syndrome.

Chondrodysplasias.

Marfan syndrome.

Alport syndrome.

Disorders of amino acid metabolism and storage

Homocystinuria.

Alkaptonuria.

Hartnup disease.

Renal glycosuria

10. INFECTIOUS DISEASES

COURSE OUTLINES:

- o Clinical syndromes.
 - Sepsis and septic shock, meningococcaemia
 - Acute infectious diarrhoeal diseases and bacterial food poisoning.
 - Hospital acquired infections.
- o Common disease syndromes caused by the following bacteria and their drug therapy.
 - Pneumococci
 - Staphylococci.
 - Streptococci.
 - Hemophilis influenzae.
 - Shigella.
 - Gonococci.

f Pseudomonas.

o Following diseases in detail.

Tetanus.

Enteric fever/salmonellosis.

Cholera.

Tuberculosis.

Leprosy.

Amoebiasis/giardiasis/trichomoniasis.

Malaria.

AIDS.

Rabies.

Infectious mononucleosis.

o Helminthic infestations

Ascariasis

Hookworm

Whipworm (trichuriasis)

Threadworm (enterobiasis)

Taenia (tapeworm)

Hydatid diseases

CLINICAL TRAINING:

Important Topics To Be Discussed:

Case discussion for diagnosis and management of common infectious diseases in Pakistan

- Malaria

- Typhoid fever
- Acute diarrhoeal diseases
- Acute / chronic respiratory tract infections
- Generalized septicemia etc.

Understand the Symptomatology to reach the Differential Diagnosis:

- o Fever

- o Headache, pain

- o Anorexia/ weight loss

- o Haemoptysis/ chest pain/ epigastric o
Cough/expectoration/sputum

- o Dysuria, pyuria

- o Diarrhoea / vomiting o
Melena, hematemesis

- o Jaundice/hepatomegaly o
Eruption and rashes

- o Itching

- o Joint pain and joint swelling etc.

Skills to Be Learnt:

- History taking and correlate with a specific diagnosis.
- Examination and assessment of the pattern of fever, involvement of organ systems and any positive findings.
- Interpretation of related radiological and laboratory investigations
- Symptomatic treatment and prescription writing in infectious diseases.

Procedures:**Perform:**

- Injection I/V, I/M, S/C, intradermal
- Oxygen therapy
- Urinary catheterisation – collection of samples
- Collection of blood samples/ blood film preparation

Observe:

- Observe I/V lines/Fluids/Blood/Blood products, direct, branula, cutdown, CVP
- N/G tube passing and feeding
- Foley's catheter/Red rubber catheter
- IOP record maintenance
- Aspiration of fluids (Pleural, Pericardial, Peritoneal, Knee)
- Lumbar Puncture
- O₂ therapy
- Nebulisation etc.

11. HAEMATOLOGY

COURSE OUTLINES:

Anaemias.

- Classification
- Iron deficiency
- Megaloblastic
 - o B-12 deficiency
 - o Folic acid deficiency
- Anaemia of chronic disorder
- Haemolytic anaemia
 - o Hereditary o
Acquired
 - o Intra-corporcular
 - o Extra-corporcular
- Aplastic anemia

Haemoglobinopathies.

- Sickle cell syndromes

- Thalassaemias

Myeloproliferative diseases.

- Chronic myeloid leukemia (CML)
- Polycythemia vera
- Myelofibrosis
- Essential thrombocytosis
- Leukemias.
 - Acute
 - Chronic
- Lymphomas
 - Non-Hodgkin's
 - Hodgkin's

Blood groups and blood transfusion.

Bone marrow transplantation.

Disorders of haemostasis.

- Thrombocytopenia
- Idiopathic thrombocytopenic purpura (ITP)
- Von Willebrand's disease.
- Vessel wall disorders.
- Disorders of coagulation.
- Haemophilia
- Vitamin K deficiency.
- Disseminated intravascular coagulation (DIC).

Anticoagulants Therapy

- Heparin

- Oral (warfarin etc.)
- Vit. K infusion
- Antiplatelet drugs

CLINICAL TRAINING:

Important Topics To Be Discussed:

Case discussion for diagnosis and management of common haematological disorders

- Anaemias
- Bleeding disorders
- Myeloproliferative or lymphoproliferative diseases

Understand the Symptomatology to reach the Differential Diagnosis:

- Lassitude
- Dyspnoea
- Infections
- Edema
- Gum hypertrophy

- Bleeding tendency
- Bruising purpura
- Lymph node enlargement
- Weight loss
- Facial swelling
- Bone pain
- Jaundice
- Hepatosplenomegaly
- Hypersensitivity/ allergic reactions etc.

Skills To Be Learnt:

- History taking in general
- General physical examination, pallor, cyanosis, jaundice, clubbing, koilonychia, lymph nodes, edema, pulse, cyanosis, fever, headache, anorexia, weight loss, pain, facial swelling etc.
- Examination and assessment of the extent of the disease
- Interpretation of related radiological and laboratory investigations
- General medication and prescription writing in Haematology.

Procedures (Observe/ Assist):

- Injection I/V, I/M, S/C, intradermal
- Collection of samples of blood/blood film preparation
- Perform I/V lines/fluids/blood/blood products, direct branula, cutdown, CVP etc.
- Observe bone marrow aspiration/ trephine

12. PSYCHIATRY

COURSE OUTLINES:

- Mood disorders.
- Major depressive episodes
 - Unipolar
 - Bipolar
 - Dysthymic
 - Atypical
- Maniac episodes
- Anxiety disorders.
- Acute anxiety states
- Panic disorders
- Generalized anxiety disorders
- Psychic Traumatic disorders
- Obsessive-compulsive disorders
- Phobic disorders

- Schizophrenia.
- Alcoholism.
- Addiction.
- Psychosexual disorders in men and women.

CLINICAL TRAINING:

Important Topics To Be Discussed:

Case discussion for diagnosis and management of common Psychiatric disorders like-

- Anxiety
- Depression
- Schizophrenia
- Manic depressive psychosis
- Phobias
- Eating disorders

Understand the Symptomatology to reach the Differential Diagnosis:

Skills To Be Learnt:

- History taking in psychiatry
- Clinical examination of patients
- Counseling and psychoanalysis especially in patients with suicidal and homicidal attitude.
- Interpretation of related radiological and laboratory investigations
- General medication and prescription writing in psychiatry

Procedures:

- Psychotherapy
- Electroconvulsive Therapy (ECT)
- Electroencephalogram (EEG)

13. MISCELLANEOUS AND EMERGENCIES

- Heat stroke
- Snake bite
- Electric shock
- Poisoning etc.

Procedures To Be Performed/Observed/Assisted:

Perform:

- Injection I/V, I/M, S/C, intradermal
- Oxygen therapy
- Urinary catheterisation – collection and samples of blood

Observe:

- Observe I/V lines/fluids/blood/blood products, direct, manula, cutdown, CVP
- N/G tube passing and feeding
- Foley's catheter/Red rubber catheter, IOP record maintenance
- Endotracheal tube placement
- Endotracheal suction/maintenance of airway/nursing on side etc.
- Aspiration of fluids (Pleural, Pericardial, Peritoneal, Knee)
- Lumbar puncture
- O₂ therapy
- Nebulisation
- ECG taking/reading
- X-ray chest reading
- Barium series
- I/V urograms
- Bone and joint X-ray reading for medical problems (Rheumatoid arthritis, osteoarthritis, collapse vertebra, caries spine, multiple myeloma, cervical rib etc.)
- Preparing a patient for endoscopies, upper and lower GIT

THE LOG BOOK/CLINICAL CARD RECORD

The student is expected to make a record of his/her achievements in the log book. The log book is a collection of evidence that learning has taken place, it is a reflective record of achievements. The log book shall also contain a record of the procedures which student would have performed in 3rd, 4th & 5th year.

RECOMMENDED BOOKS:

1. **Practice of Medicine** by Davidson.
2. **Clinical Medicine** by Parveen J Kumar & Michael, Clark
3. **Hutchison's Clinical Methods** by Michael Swash. 21st edition
4. **Basic psychiatry** by Myre Sim, e. B. Gordon
5. **Oxford Text Book of Psychiatry**
6. **ABC of Dermatology**. Latest Edition.
7. **Smith's General Urology** by Emil A. Tanagho and Jack W. McAninch 15th edition. 2007
8. **Online Journals and Reading Materials** through HEC Digital Library Facility

DEPARTMENT OF MEDICINE & ALLIED

PLANNER 3rd YEAR MBBS TEACHING

PLANNER 3RD YEAR TEACHING AMNA INAYAT MEDICAL COLLEGE

CVS

LECT. No	TOPIC TO BE TAUGHT	OBJECTIVES	TEACHER NAME
1	Palpitation, Breathlessness	Students must be able to understand what is Palpitation & Breathlessness, and the causes of Palpitation, Breathlessness,	Dr. Zubair
2	Chest Pain, Raised JVP	Students must be able to understand differential Diagnosis & Different Characters of Chest Pain and particularly Ischaemic Chest pain & causes of raised JVP, how to appreciate raised JVP.	Dr. Zubair

RESPIRATORY SYSTEM

3	Orthopnoea/Paroxysmal nocturnal dyspnoea(PND)	Students must be able to understand different causes of Orthopnoea/ Paroxysmal nocturnal dyspnoea(PND)	Dr. Zubair
4	Cough, expectoration, Sputum, Brethlessness.	Students must be able to understand the diagnosis on the basis of Cough, expectoration, Sputum, Brethlessness.	Dr. Zubair
5	Wheezing, Haemoptysis, Chest Pain	Students must be able to understand the casus of Wheezing, Haemoptysis, Chest Pain	Dr. Zubair

NEUROLOGY AND CNS

6	Behaviour, IQ	Students must be able to understand different types of behaviors and how to assess IQ.	Dr. Zubair
7	Speech disturbances, Memory.	Students must be able to understand different types of Speech disturbances & Memory.	Dr. Zubair
8	Confusional states, Dementia, Tremors.	Students must be able to understand causes of Confusional states, Dementia,	Dr. Zubair

		Tremors.	
9	Fasiculations, Athetosis, Chorea.	Students must be able to understand what is Fasiculations, Athetosis, Chorea. And their causes.	Dr. Zubair
10	Gait abnormalities, Convulsions, Fits.	Students must be able to understand what are Gait abnormalities, Convulsions, Fits and their causes.	Dr. Zubair
11	Coma, Syncope/Dizziness, Vertigo Deafness, Blindness.	Students must be able to understand what is Coma, Syncope/Dizziness, Vertigo Deafness, Blindness and their causes.	Dr. Zubair
12	Numbness, tingling, sensory loss.	Students must be able to understand what is Numbness, tingling, sensory loss and their causes.	Dr. Zubair
13	Rigidity/Paralysis.	Students must be able to understand what is Rigidity/Paralysis and their causes.	Dr. Zubair
14	Movement disorders.	Students must be able to understand different types of Movement disorders and their causes.	Dr. Zubair

ALIMENTARY SYSTEM

15	Oral ulceration, Dysphagia, Heart burn.	Students must be able to understand what is Oral ulceration, Dysphagia, Heart burn and their causes.	Dr. Zubair
16	Nausea, Vomiting, Indigestion, Flatulence.	Students must be able to understand what is Nausea, Vomiting, Indigestion, Flatulence and their causes.	Dr. Zubair
17	Diarrhoea and constipation.	Students must be able to understand what is Diarrhoea and constipation and their causes.	Dr. Zubair
18	Melena, hematemesis, Bleeding per rectum.	Students must be able to understand what is Melena, hematemesis, Bleeding per rectum and their causes.	Dr. Zubair
19	Jaundice, Hepatomegaly.	Students must be able to understand different types of Jaundice, their causes and causes of Hepatomegaly	Dr. Zubair
20	Abdominal distension, Ascites.	Students must be able to understand what is Abdominal distension, Ascites and their causes.	Dr. Zubair

KIDNEY AND URINARY SYSTEM

21	History taking: Lumber pain, Anuria.	Students must be able to understand how to take the History in a patient with Lumber pain and Anuria	Dr. Zubair
22	Oliguria, hematuria, dysuria.	Students must be able to understand what is Oliguria, hematuria, dysuria and their causes.	Dr. Zubair
23	Urgency, Frequency of micturition.	Students must be able to understand what is Urgency, Frequency of micturition and their causs.	Dr. Zubair
24	Pyuria, Urinary retention	Students must be able to understand what is Pyuria, Urinary retention and their causs.	Dr. Zubair
25	Nocturia, urinary incontinence, pelvic pain.	Students must be able to understand what is Nocturia, urinary incontinence, pelvic pain and their causes.	Dr. Zubair

INFECTION DISEASES

26	Malaria	Students must be able to understand signs and symptoms of Malaria, its differential diagnosis and treatment and prevention.	Dr. Zubair
27	Dengue fever	Students must be able to understand signs and symptoms of Dengue fever, its differential diagnosis and treatment and prevention.	Dr. Zubair
28	Hepatitis	Students must be able to understand signs and symptoms of Hepatitis, its differential diagnosis and treatment and prevention.	Dr. Zubair
29	Sepsis and septic shock	Students must be able to understand signs and symptoms of Sepsis and septic shock, its differential diagnosis and treatment and prevention.	Dr. Zubair
30	Acute infectious diarrhea/food poisoning	Students must be able to understand	Dr. Zubair

		signs and symptoms of Acute infectious diarrhea/food poisoning, its differential diagnosis and treatment and prevention.	
31	Hospital acquired infections	Students must be able to understand signs and symptoms of Hospital acquired infections, its differential diagnosis and treatment and prevention.	Dr. Zubair
32	Diseases caused by pneumococci, staphylococci, H influenz	Students must be able to understand signs and symptoms of Diseases caused by pneumococci, staphylococci, H influenz, , its differential diagnosis and treatment and prevention.	Dr. Zubair
33	Diseases caused by Shigella/Salmonela/ Cholera.	Students must be able to understand signs and symptoms of Diseases caused by Shigella/Salmonela/ Cholera, its differential diagnosis and treatment and prevention.	Dr. Zubair

34	Sexually transmitted diseases/ AIDS, Gonoria.	Students must be able to understand signs and symptoms of Sexually transmitted diseases/ AIDS, Gonoria, its differential diagnosis and treatment and prevention.	Dr. Zubair
35	Tetanus. Rabies	Students must be able to understand signs and symptoms of Tetanus. Rabies, , its differential diagnosis and treatment and prevention.	Dr. Zubair
36	Amoebiasis/ Giadisis / Trichomonisis.	Students must be able to understand signs and symptoms of Amoebiasis/ Giadisis / Trichomonisis, its differential diagnosis and treatment and prevention.	Dr. Zubair
37	Infectious Mononucleosis.	Students must be able to understand signs and symptoms of Infectious Mononucleosis, , its differential diagnosis and treatment and prevention.	Dr. Zubair

38	Worm infestation/ Hook worm / Ascariasis	Students must be able to understand signs and symptoms of Worm infestation/ Hook worm / Ascariasis, , its differential diagnosis and treatment and prevention.	Dr. Zubair
39	Thread worm / Tinea.	Students must be able to understand signs and symptoms of Thread worm / Tinea, its differential diagnosis and treatment and prevention	Dr. Zubair

PLANNER 4TH YEAR TEACHING AMNA INAYAT MEDICAL COLLEGE

GASTRO INTESTINAL AND HEPATO BILIARY SYSTEM

LECT. No	TOPIC TO BE TAUGHT	OBJECTIVES	TEACHER NAME
1	Symptomatology in GI. Disorders	Students must be able to understand different Symptoms in GI. Disorders and their application in different diseases.	Dr. Haseeb
2	Investigations in GI. Disorders	Students must be able to understand different Investigations in GI. Disorders and their application in different diseases.	Dr. Haseeb
3	Esophageal disorders	Students must be able to understand signs and symptoms of Esophageal disorders, its differential diagnosis and treatment and prevention	Dr. Haseeb
4	Peptic ulcer and gastritis / GERD	Students must be able to understand signs and symptoms of Esophageal disorders, its differential diagnosis and treatment and prevention	Dr. Haseeb
5	Malabsorption syndrome	Students must be able to understand signs and symptoms of	Dr. Haseeb

		Malabsorption syndrome, its differential diagnosis and treatment and prevention	
6	Ch. IBD/Ulcerative colitis, crohns disease.	Students must be able to understand signs and symptoms of Ch. IBD/Ulcerative colitis, crohns disease., its differential diagnosis and treatment and prevention	Dr. Haseeb
7	IBS.	Students must be able to understand signs and symptoms IBS, its differential diagnosis and treatment and prevention	Dr. Haseeb
8	Ascites	Students must be able to understand signs and symptoms Ascites its differential diagnosis and treatment and prevention	Dr. Haseeb
9	Jaundice, types and classification.	Students must be able to understand causes of Jaundice, types and classification.	Dr. Haseeb
10	Chronic hepatitis	Students must be able to understand signs and symptoms Chronic hepatitis, its differential diagnosis and treatment and prevention	Dr. Haseeb
11	Cirrhosis of Liver	Students must be able to understand signs and symptoms Cirrhosis of Liver, its differential diagnosis	Dr. Haseeb

		and treatment and prevention	
12	Hepatic encephalopathy	Students must be able to understand signs and symptoms Hepatic encephalopathy, its differential diagnosis and treatment and prevention	Dr. Haseeb
13	Liver Abscess.	Students must be able to understand signs and symptoms Liver Abscess., its differential diagnosis and treatment and prevention	Dr. Haseeb
14	Ca liver and liver transplantation.	Students must be able to understand signs and symptoms Liver Abscess., its differential diagnosis and treatment.	Dr. Haseeb
15	Acute/chronic pancreatitis.	Students must be able to understand signs and symptoms Acute/chronic pancreatitis. its differential diagnosis and treatment and prevention	Dr. Haseeb
16	Upper and lower GI bleeds..Managing GI bleed	Students must be able to understand signs and symptoms Upper and lower GI bleeds.Managing GI bleed. its differential diagnosis and treatment and prevention	Dr. Haseeb

NEPHROLOGY

LECT. No	TOPIC TO BE TAUGHT	OBJECTIVES	TEACHER NAME
17	Signs and symptoms in renal disease	Students must be able to know different symptoms and signs in Renal Diseases.	Dr. Haseeb
18	Investigations in renal disease.	Students must be able to know different investigation in Renal Diseases and their significance to diagnose different renal diseases.	Dr. Haseeb
19	Urinary tract infections/Glomerulonephritis : acute / chronic	Students must be able to understand signs and symptoms Urinary tract infections/Glomerulonephritis : acute / chronic. its differential diagnosis and treatment and prevention	Dr. Haseeb
20	Acute and chronic / pyelonephritis. Cystitis.	Students must be able to understand signs and symptoms Acute and chronic / pyelonephritis. Cystitis.. its differential diagnosis and treatment and prevention	Dr. Haseeb
21	Nephrotic syndrome: Renal artery stenosis: renal vein thrombosis	Students must be able to understand signs and symptoms Nephrotic syndrome: Renal artery stenosis: renal vein thrombosis its differential diagnosis and treatment and prevention	Dr. Haseeb
22	Polycystic Kidneys	Students must be able to understand signs and symptoms Polycystic Kidneys its differential diagnosis and treatment.	Dr. Haseeb

23	Acute / chronic renal failure	Students must be able to understand signs and symptoms Acute / chronic renal failure its differential diagnosis and treatment and prevention	Dr. Haseeb
24	Hemolytic uremic syndrome	Students must be able to understand signs and symptoms Hemolytic uremic syndrome its differential diagnosis and treatment and prevention	Dr. Haseeb
25	Renal tubular acidosis.	Students must be able to understand signs and symptoms Renal tubular acidosis. its differential diagnosis and treatment and prevention	Dr. Haseeb
26	Drugs and Kidney (brief): drugs contra indicated in renal disease	Students must be able to understand effects of Drugs on Kidney (brief): and drugs contra indicated in renal disease.	Dr. Haseeb
27	Renal malignancy	Students must be able to understand signs and symptoms Renal malignancy. its differential diagnosis and treatment and prevention	Dr. Haseeb
28	Introduction to dialysis/Renal transplant.	Students must be able to understand what is dialysis its types and indications of renal transplant.	Dr. Haseeb

CENTRAL AND PERIPHERAL NERVOUS SYSTEM----CNS AND PNS

LECT. No	TOPIC TO BE TAUGHT	OBJECTIVES	TEACHER NAME
29	Symptomatology and investigations in CNS and PNS	Students must be able to know different symptoms and investigations in CNS & PNS.	Dr. Haseeb
30	Epilepsy	Students must be able to know causes of Epilepsy, its types diagnosis and treatment.	Dr. Haseeb
31	CVA/Ischemic/hemorrhagic/embolic strokes. Hemiplegia	Students must be able to know causes of CVA/Ischemic /hemorrhagic/embolic strokes. Hemiplegia diagnosis and treatment	Dr. Haseeb
32	Sub arachnoid hge Cavernus sinus thrombosis.	Students must be able to know causes of Sub arachnoid hge Cavernus sinus thrombosis. diagnosis and treatment	Dr. Haseeb
33	Menigitis....Pyogenic, tubercular, others	Students must be able to know causes Menigitis....Pyogenic, tubercular, others diagnosis and treatment	Dr. Haseeb

34	Encephalitis, Brain abscess.	Students must be able to know causes of Encephalitis, Brain abscess. diagnosis and treatment	Dr. Haseeb
35	Parkinson's disease and movement disorders.	Students must be able to know causes of Parkinson's disease and movement disorders. diagnosis and treatment	Dr. Haseeb
36	Cerebeller disease.	Students must be able to know causes of Cerebeller disease. diagnosis and treatment	Dr. Haseeb
37	Cranial Nerves disorders, Bell's palsy	Students must be able to know causes of Cranial Nerves disorders, Bell's palsy disease. diagnosis and treatment	Dr. Haseeb
38	Multiple Sclerosis	Students must be able to know causes of Multiple Sclerosis diagnosis and treatment	Dr. Haseeb
39	Dementia and Alsheimer's disease	Students must be able to know causes of Dementia and Alsheimer's disease, diagnosis and treatment	Dr. Haseeb
40	Motor neuron disease.	Students must be able to know causes of Motor neuron disease. diagnosis and treatment	Dr. Haseeb
41	Diseases of spinal cord, cord compression.	Students must be able to know causes of Diseases of spinal cord, cord compression.	Dr. Haseeb

		diagnosis and treatment	
42	Paraplegia, Quadruplegia	Students must be able to know causes of Paraplegia, Quadruplegia, diagnosis and treatment	Dr. Haseeb
43	Myelitis, spondylitis.	Students must be able to know causes of Myelitis, spondylitis. diagnosis and treatment	Dr. Haseeb
44	Syringomyelia and syringobulbia.	Students must be able to know causes of Syringomyelia and syringobulbia. diagnosis and treatment	Dr. Haseeb
45	Peripheral & disorders, Peripheral neuropathy.	Students must be able to know causes of Peripheral & disorders, Peripheral neuropathy. diagnosis and treatment	Dr. Haseeb
46	GB syndrome.	Students must be able to know causes of GB syndrome. diagnosis and treatment	Dr. Haseeb
47	Mononeuritis multiplex.	Students must be able to know causes of Mononeuritis multiplex. diagnosis and treatment	Dr. Haseeb
48	Space occupying lesions of the Brain.	Students must be able to know causes of Space occupying lesions of the Brain. diagnosis and treatment	Dr. Haseeb
49	Space occupying lesions of the spinal cord.	Students must be able to know causes of	Dr. Haseeb

		Space occupying lesions of the spinal cord. diagnosis and treatment	
50	Myopathies, and muscular dystrophies,	Students must be able to know causes of Myopathies, and muscular dystrophies, . diagnosis and treatment	Dr. Haseeb
51	Myasthenia gravis.	Students must be able to know causes of Myasthenia gravis. diagnosis and treatment	Dr. Haseeb

DEPARTMENT OF MEDICINE & ALLIED

PLANNER FINAL YEAR MBBS TEACHING

CARDIOVASCULAR SYSTEM

LECT. No	TOPIC TO BE TAUGHT	OBJECTIVES	TEACHER NAME
1	Symptoms in CVS diseases	Students must be able to understand symptoms of CVS & their interpretation to make the correct diagnose	Prof. Shoaib Randhawa
2	Investigations in CVS diseases	Students must be able to understand investigations of CVS & their interpretation to make the correct diagnose	Prof. Shoaib Randhawa
3	Valvular heart diseases	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
4	Rheumatic fever/infective endocarditic	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the	Prof. Shoaib Randhawa

		disease	
5	heart diseases. Cyanotic and acynotic. ASD, VSD,	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
6	PDA, Fallot'Stetrologyetc	Students must be able to understand etiology	Prof. Shoaib Randhawa
7	Ischemic heart diseases, angina infarction.	Students must be able to understand etiology	Prof. Shoaib Randhawa
8	LVF, CCF • Corpulmonale	Students must be able to understand etiology	Prof. Shoaib Randhawa
9	Cardiomyopathies	Students must be able to understand etiology	Prof. Shoaib Randhawa
10	Pericardial disease. Acute pericarditis/ effusion	Students must be able to understand etiology	Prof. Shoaib Randhawa
11	Constrictive pericarditis, cardiac temponade	Students must be able to understand etiology	Prof. Shoaib Randhawa
12	Hypertensive heart disease	Students must be able to understand etiology	Prof. Shoaib Randhawa
13	Atherosclerosis! Arteriosclerosis	Students must be able to understand etiology	Prof. Shoaib Randhawa
14	Hypertension	Students must be able to understand etiology	Prof. Shoaib Randhawa
15	Peripheral vascular disease(PVD)	Students must be able to understand etiology	Prof. Shoaib Randhawa
16	ECG, Echocardiography	Students must be able to understand	Prof. Shoaib Randhawa

		interpret ECG's & Echocardiography Findings	
17	ETT.Thalliumscan. Holter, Angio	Students must be able to understand and investigations ETT.Thalliumscan. Holter, Angio	Prof. Shoaib Randhawa

ENDOCRINOLOGY

LECT. No	TOPIC TO BE TAUGHT	OBJECTIVES	TEACHER NAME
18	Endocrinology.signs and symptoms	Students must be able to understand symptoms and Signs of Endocrine Disorders.	Prof. Shoaib Randhawa
19	Diseases of hypothalamus and pituitary	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
20	Panhypopituitarim/Sheehan's syndrome	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
21	Growth hormone disorders.Acromegaly, Gigantism	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa

22	Empty sella syndrome, Diabetes insipidus	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
23	SIADH, Hyperthyroidism, Graves's disease	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
24	Hypothyroidism, Thyroid function tests	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
25	Parathyroid diseases	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
26	Cushing syndrome. Adrenal hyperplasia	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
27	Addison's disease. Con's disease	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa

28	Pheochromocytome	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
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29	Diabetes mellitus / types	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
30	Treatment and management of DM	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
31	Management of diabetic ketoacidosis	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
32	Hypoglycemic and hyperosmolar non ketotic coma	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
33	Hemochromatosis	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
34	Wilson's diseases	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
35	Metabolic disorders: Gout, hypercalcemia.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
36	Hyperlipidemias	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
37	Storage diseases, Lipid storage diseases	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa

38	Glycogen storage diseases	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
39	Disorders of amino acid metabolism.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
40	Homocystinuria, Alcaptonuria	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
41	Diseases of bone and joints; OA, Pagets disease Of bone, osteoporosis	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
42	Anemias; classification, Iron deficiency	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
43	Megaloblastic, B1, Folic acid deficiency	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
44	Anemia of chronic disease, Hemolytic –hereditary and acquired Hemoglobinopathies	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
45	Thalassaemia, sickle cell anemia	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
46	Aplastic anemia	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa

47	Leukemias, Acute and Chronic myeloid leukemia	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
48	Lymphocytic leukemias	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa

49	Polycythemia, polycythemiavarubra/vera	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
50	Thrombocytopenia and thrombocytosis	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
51	Myelofibrosis	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa
52	Lymphoma- Hodgkin and non Hodgkin.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Shoaib Randhawa

RESPERATORY SYSTEM

Lecture no	TOPIC TO BE TAUGHT	OBJECTIVES	TEACHER NAME
53	Symptoms of Respiratory system,	Students must be able to understand symptoms of Respiratory & their interpretation to make the correct diagnose	Dr. Mehmood Ahmad
54	Pulmonary function tests & investigations in resp, system	Students must be able to understand investigations of	Dr. Mehmood

		Respiratory & their interpretation to make the correct diagnose	Ahmad
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55	Bronchial asthma	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
56	Pneumonia	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
57	Bronchiectasis	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
58	COPD	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
59	Cystic Fibrosis	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
60	Pneumothorax. empyema	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
61	Interstitial lung disease/ lung diseases	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
62	Pulmonary thrombo embolism/acute corpulmonale	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
63	Pulmonary tuberculosis and pleural effusion	Students must be able to understand etiology, pathogenesis, diagnosis and	Dr. Mehmood Ahmad

	ARDS/Acute respiratory	treatment of the disease	
64	Failure/Mechanical ventilation.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
65	CA. Lung.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
66	Multisystem, immunological diseases. SLE	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
67	RA	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
68	Systemic sclerosis, scleroderma	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
69	Mixed connective tissue disease, Sjogren syndrome	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
70	Ankylosing spondylitis	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
71	Bahcet syndrome, Vasculitic syndrome	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
72	Anaphylactoidpurpura, polyarthritisnodosa	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
73	Hypersensitivity vasculitis, Wegener granulomatosis Temporal arteritis. Takayasu	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad

	arteritis		
74	Sarcoidosis	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
75	Abnormalities of Acid- base balance	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
76	Abnormalities of Acid- base balance	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
77	Abnormalities of Acid- base balance	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
78	Introduction to dermatology	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
79	Basic structure of skin	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
80	Basic and secondary skin lesions.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
81	Papulo-squamous disorders(psoriasis, ecema,lichen -planus	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
82	Skin infections(viral, Fungal, Bacterial, mycobacterial, Leprosy	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
83	Skin infestations	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha

84	Sexually transmitted diseases	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
85	Acne Vulgaris.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
86	Disorders of pigmentation	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
87	Disorders of hair	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
88	Disorders of nails.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
89	Disorders of abnormal keratinization	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
90	Bullous skin Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
91	Vasculitic Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
92	Skin cancer and Nevi	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
93	Drug Reactions	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
94	Introduction to psychiatry	Students must be able to understand etiology,	Prof. Dr. Ghazala

		pathogenesis, diagnosis and treatment of the disease	Musa
95	Major Depressive episodes	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
96	Unipolar, Bipolar, Dysthymic, Atypical	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
97	Bipolar Affective Disorders.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
98	Panic Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
99	Generalized Anxiety Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
100	Post traumatic stress Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
101	Obsessive Compulsive Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
102	Phobic Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
103	Schizophrenia.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
104	Substance abuse Addiction	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa

105	Alcoholism	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
106	Psychosexual Disorders in men and women	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa

KIDNEY

Lecture No	TOPIC TO BE TAUGHT	OBJECTIVES	TEACHER NAME
107	Acute pyelonephritis, urinary Tract Infections	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
108	Acute Kidney Injury, Acute Tubular Necrosis	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
109	Chronic Kidney Disease	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad
110	Nephrotic Syndrome	Students must be able to understand etiology, pathogenesis,	Dr. Mehmood Ahmad

		diagnosis and treatment of the disease	
111	Impotence	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Mehmood Ahmad

DERMATOLOGY

Lecture no	TOPIC TO BE TAUGHT	OBJECTIVES	TEACHER NAME
112	Introduction to Dermatology	Students must be able to understand different skin lesions	Dr. Madiha
113	Basic structure of Skin	Students must be able to understand basic structure of the skin	Dr. Madiha
114	Basic & secondary skin lesions	Students must be able to understand Basic & secondary skin lesions	Dr. Madiha
115	Papulo-squamous disorders(psoriasis, eczema, lichen planus)	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha

116	Skin Infections, (Viral, fungal, Bacterial, Micro Bacterial)	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
117	Leprosy	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
118	Skin Infestations	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
119	Sexually Transmitted diseases	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
120	Acne Vulgaris	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
121	Disorders of pigmentation	Students must be able to	Dr. Madiha

		understand etiology, pathogenesis, diagnosis and treatment of the disease	
122	Disorders of Hair	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
123	Disorders of Nails	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
124	Disorders of Abnormal keratinization	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
125	Bullous Skin Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
126	Vasculitic Disorders	Students must be able to understand etiology,	Dr. Madiha

		pathogenesis, diagnosis and treatment of the disease	
127	Skin Cancer and Naevi	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha
128	Drug Reactions	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Madiha

PSYCHIATRY

Lecture no	TOPIC TO BE TAUGHT	OBJECTIVES	TEACHER NAME
129	Introduction to psychiatry	Students must be able to understand Basics of psychiatry	Prof. Dr. Ghazala Musa
130	Major Depressive Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and	Prof. Dr. Ghazala Musa

		treatment of the disease	
131	Unipolar, Bipolar, Dysthymic, Atypical	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
132	Bipolar Affective Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
133	Panic Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
134	generalized anxiety Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
135	Post traumatic Stress Disorders	Students must be able to understand	Prof. Dr. Ghazala Musa

		etiology, pathogenesis, diagnosis and treatment of the disease	
136	Obsessive Compulsive Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
137	phobic Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
138	Schizophrenia	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
139	Substance abuse Addiction	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa

140	Alcoholism	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa
141	Psychosexual Disorders in men & women	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr. Ghazala Musa