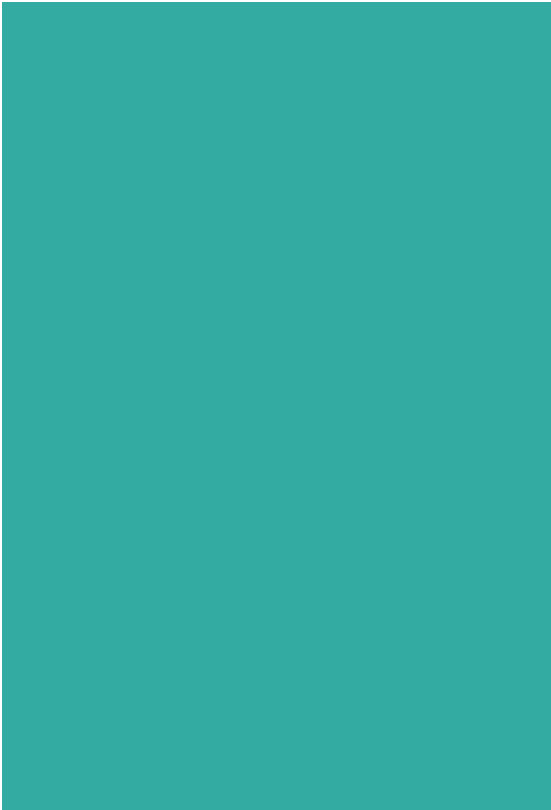


Study Guide

DEPARTMENT OF MEDICINE

Aziz Fatimah Hospital and Medical college



MEDICAL DEPARTMENT AT A GLANCE

The department of medicine is an important component of Aziz Fatimah Medical & Dental College, Faisalabad. The infra-structure consists of emergency ward, outdoor and indoor units, separate functional neurology, dermatology, psychiatry and cardiology units, ICU, HDU, endoscopy and Hemodialysis facilities. The ICU is well equipped and has modern equipment like ETT and echocardiography. Department of medicine is recognized by CPSP for postgraduate training in medicine. The laboratory and radiology departments provide a very good support in hospital with modern facilities. The department has 2 units and has 75 beds. It is providing support to sufficient number of patients as well as to medical students to help them learn to become good professional doctors.

The department follows a proficient and result oriented teaching and assessment plan which includes new and interesting teaching strategies. Learning is made easy by increasing interactive student teacher sessions. Students are evaluated in cognitive, psychomotor, and applied domains by conduction of regular formative and summative assessments like multiple choice questions, quizzes, written tests, assignments, presentations and OSPE and oral viva. At the end of each academic year a university standard send-up examination is conducted.

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Departmental Team

- Prof Dr Ghulam Abbas Sheikh
Head of department
- Prof Dr Masood Javed
Prof of medicine
- Dr Rizwan Rasul Khan
Associate prof
- Dr Nasir Mahmood
Associate prof
- Dr Mubarak Ali Anjum
Assistant prof
- Dr Muhammad Rizwan
Assistant Prof
- Dr Muhammad Absar Alam
Assistant Prof

MEDICINE

(Including Psychiatry, Dermatology)

CORE CURRICULA

Suggested List of Topics

Instead of starting with the traditional systemic approach a symptomatic approach in Medicine is the theme of these topics. The 'dynamic' list of topics is:

1. GENERAL

- i. Oedema
- ii. Cyanosis
- iii. Fever
- iv. Headache
- v. Anorexia, Weight loss

2. ALIMENTARY SYSTEM

- vi. Melena, Hematemesis, Bleeding per rectum.
- vii. Abdominal Distension/Ascites
- viii. Jaundice.
- ix. Heart burn.
- x. Diarrhoea and Constipation

3. GENITOURINARY SYSTEM

- xi. All signs related to examination by the hands
- xii. Lumbar pain, Anuria, Oliguria, Hematuria
- xiii. Dysuria, Frequency of Micturition, Urgency, Pyuria

4. RESPIRATORY SYSTEM

- xiv. Chest pain
- xv. Cough/Expectoration/Sputum

5. CARDIOVASCULAR SYSTEM

- xvi. Palpitation, Breathlessness, chest pain

6. CENTRAL NERVOUS SYSTEM

- xvii. I.Q.
- xviii. Paralysis.
- xix. Speech disturbances
- xx. Movement disorders

7. MUSCULOSKELETAL SYSTEM

- xxi. Joint pain and Joint swelling

8. SKIN

- xxii. Eruption and rashes
- xxiii Itching, pigmentation and dyspigmentation

9. BLOOD

- xxiv. Bleeding tendency, bruising purpura
- xxv. Lymph Node, enlargement

Any other topic given below may also be included: -

1. GENERAL

- Pain
- Weight gain/Obesity
- Insomnia
- Facial swelling

2. ALIMENTARY SYSTEM

- Oral ulceration
- Dysphagia
- Nausea/Vomiting
- Indigestion/Flatulence
- Constipation

3. GENITOURINARY SYSTEM

- Urinary retention
- Nocturia
- Urinary incontinence
- Pelvic pain
- Menorrhagia
- Oligomenorrhea
- Genital ulceration
- Impotence
- Infertility

4. RESPIRATORY SYSTEM

- Breathlessness
- Wheezing
- Hemoptysis
- Orthopnea Paroxysmal nocturnal dyspnoea (PND)
- Pain in calf on walking
- Undue coldness, redness, or blueness of extremities

5. CENTRAL NERVOUS SYSTEM

- Behaviour
- Memory
- Confusional states
- Dementia
- Tremor
- Fasciculations
- Athetosis
- Chorea
- Gait abnormalities
- Convulsions/Fits
- Coma
- Syncope/Dizziness
- Vertigo
- Deafness
- Blindness

- Nystagmus examination
- Numbness, Tingling, Sensory loss
- Rigidity examination

6. MUSCULOSKELETAL SYSTEM

- Muscle cramps
- Muscle weakness
- Muscular wasting

7. SKIN

- Alopecia

8. BLOOD

- Lassitude
- Dyspnoea
- Infections
- Gum hypertrophy

Lectures, Seminars, Tutorials

The respective teachers in the specialty will be responsible for teaching the suggested list of topics as under:

1. Cardiology

- i. Rheumatic fever and infective endocarditis.
- ii. Valvular heart diseases.
 - Mitral valve
 - Aortic valve
- iii. Cyanotic/Acyanotic heart diseases.
 - Fallot's tetralogy
 - Name of other diseases
- iv. Ischaemic heart disease.
 - Angina
 - Myocardial infarction
- v. Heart failure.
 - Left Ventricular Failure.
 - Congestive Cardiac Failure.
 - Corpulmonale.
- vi. Congenital heart diseases (brief).
 - Atrial Septal Defect
 - Ventricular Septal Defect
 - Patent Ductus Arteriosus

- vii. Cardiomyopathies (brief).
- viii. Pericardial diseases (brief).
 - Constrictive pericarditis
 - Pericardial effusion
- ix. Atherosclerosis/Arteriosclerosis.
- x. Hypertension.
- xi. Peripheral vascular disease (brief).
- xii. Symptoms and signs.
- xiii. Investigations.
 - Electrocardiography, X-Ray chest, Echocardiography, Thallium scan, Stress testing, Holter and Angiography etc.

2. Pulmonology

- i. Pulmonary function tests.
- ii. Imaging in pulmonary diseases/investigations.
- iii. Asthma.
- iv. Environmental lung diseases/Occupational (brief introduction).
 - Asbestosis
 - Silicosis
 - Bagasosis
 - Pneumoconiosis
 - Byssinosis
 - Farmer's lung
- v. Pneumonia.
 - Community acquired
 - Nosocomial
 - Lobar/Broncho
- vi. Adult respiratory distress syndrome/Acute respiratory failure/ Mechanical ventilation.
- vii. Bronchiectasis.
- viii. Chronic obstructive airway diseases.
 - Chronic bronchitis
 - Emphysema
- ix. Interstitial lung diseases.
- x. Pulmonary thromboembolism/Acute Cor pulmonale.
- xi. Pleural effusion.
- xii. Pneumothorax.
- xiii. Carcinoma lung.
- xiv. Tuberculosis.

3. Dermatology

- i. Anatomy, Physiology, of Skin related to Clinical Dermatology.
- ii. Infestations: Scabies, Pediculosis.
- iii. Bacterial and Mycobacterial infections.
- iv. Fungal and Viral diseases.
- v. Acne vulgaris.
- vi. Eczemas.
- vii. Psoriasis and Lichen planus.
- viii. Bullous disorders.

- ix. Pigmentary disorders.
- x. Disorders of nails.
- xi. Disorders of hairs.
- xii. Sexually transmitted diseases.

4. Psychiatry

i. Mood disorders.

- Major depressive episodes
- Unipolar
- Bipolar
- Dysthymic
- Atypical
- Manic episodes

ii. Anxiety disorders.

- Acute anxiety states
- Panic disorders
- Generalized anxiety disorders
- Psychic Traumatic disorders
- Obsessive-compulsive disorders
- Phobic disorders

iii. Schizophrenia.

iv. Alcoholism.

v. Addiction.

vi. Psychosexual disorders in Men and Women.

CLINICAL TEACHING (4th YEAR)

The clinical methods of related systems are revised, repeated with case discussion on various common disease presentations and their management. The candidates will also observe/assist in various procedures in the ward.

1. Cardiology

Suggested list of topics for Clinical Training: -

- Systemic hypertension.
- Valvular heart diseases.
- Congestive cardiac failure.
- Rheumatic fever and infective endocarditis.
- Pericardial diseases
- Angina pectoris, Myocardial Infarction
- Atrial Fibrillation
- Ventricular tachycardia
- Premature atrial and ventricular beats.

Procedures:

- ECG taking and basic reading i.e., Normal, Acute MI, Ischemia, complete heart block, APC, VPC, SVT, VT etc.
- X-ray chest reading – (Cardiology).

- Should observe, learn, and even may assist electro version 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

i. Suggested list of topics for Clinical Training:

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

ii. Procedures:

A. Perform

- Start O₂ therapy, indications, complications, intermittent etc.

B. Observe

- 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
- Chest X-ray reading of common Pulmononary diseases.

Students should know how to start Oxygen Therapy

3. Dermatology

i. 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 Smallpox, Chicken Pox, Herpes Simplex, Herpes Zoster
- SLE.
- Psoriasis
- Lichen Planus
- Impetigo Contagiosum
- Moluscum Contagiosum

- Acne Vulgaris
 - Seborrhea
 - 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
- ii. Procedures:
- Scraping for fungus
 - Use of Magnifying glass
 - Observe skin biopsy
 - Use of Wood's Lamp

4. Psychiatry

- i. Procedures:
- Observe
 - Psychotherapy
 - ECT
 - EEG
- ii. Case discussion for diagnosis and management of common Psychiatric disorders like-
1. Anxiety
 2. Depression
- iii. Diagnose and refer:
1. Schizophrenia
 2. Manic Depressive Psychosis
 3. Phobias

ALIMENTARY SYSTEM

1. Esophagus.
 - Dysphagia with special reference to
 - a) CA Oesophagus
 - b) GERD
 - c) Achalasia
 - d) Candidiasis of Oral Cavity and Oesophagus
2. Peptic ulcer and Gastritis
3. Malabsorption syndromes.
 - Sprue Tropical
 - Coeliac Disease
4. Inflammatory bowel diseases.
 - Ulcerative colitis
 - Crohn's disease
5. Irritable bowel syndrome (IBS).

6. Ascites.
6. Jaundice.

- Congenital hyperbilirubinaemia
 - Gilbert Syndrome
 - Dubin Johnson Syndrome
 - Rotor Syndromes
- Haemolytic
- Obstructive
- Hepatitis
 - Viral, acute and chronic
 - Toxic
 - Drugs

7. Auto Immune Hepatitis.
8. Cirrhosis of Liver.
9. Hepatic Encephalopathy.
10. Carcinoma liver and transplant.
11. Acute and chronic pancreatitis.
12. Upper GI Bleeding, Lower GI bleeding
13. Drugs Contraindicated in Liver Diseases

KIDNEYS AND URINARY SYSTEM

1. Acute renal failure. (Introduction)
2. Chronic renal failure. to dialysis &
3. Nephrotic syndrome. Renal Transplant)
4. Nephritic syndrome.
5. Urinary tract infections.
6. Dialysis (detail).
7. Drugs and kidney (brief).
 - a) Causing Renal disease.
 - Analgesic nephropathy.
 - Lead, Uric acid, Hypercalcemia, Radiation & Hypersensitivity nephropathy.
 - b) Drugs contra indicated in Renal insufficiency and Drugs to be used with caution in Renal Disease.
8. Polycystic kidneys (brief).
9. Renal artery stenosis (brief).
10. Renal vein thrombosis (brief).
11. Hemolytic uremic syndrome (brief).

NEUROLOGY AND CNS

1. Investigations.
2. Epilepsy.
3. Cerebrovascular diseases (stroke).
 - Ischemic – Embolism/Infarction.
 - Haemorrhage – Intra-cerebral/Subarachnoid
4. Dementia and Alzheimer's disease.
5. Parkinson's disease and other movement disorders.
6. Motor neuron disease.
7. Multiple sclerosis.
8. Meningitis.
 - Bacterial.
 - Tuberculous.

- Brain abscess.
- Viral meningitis and encephalitis.

9. Cranial nerve disorders.

- Transient mono-ocular blindness (Amaurosis fugax).
- Trigeminal neuralgia.
- Facial palsy (Bell's).
- Vertigo, nystagmus

10. Spinal cord disorders.

- Spinal cord compression, paraplegia, quadriplegia
- Myelitis.
- Spondylosis.
- Syringomyelia and Syringobulbia.

11. Peripheral nerve disorders.

- Peripheral polyneuropathy G.B. Syndrome
- Mononeuritis multiplex.

12. Space Occupying Lesions of brain and spinal cord.

13. Myopathies, Myasthenia Gravis.

METABOLIC DISORDERS

(Definition, causes and some basic information).

1. Hyperlipidemia (brief).
2. Hemochromatosis (brief).
3. Porphyrias (brief).
4. Wilson's disease (brief).
5. Gout and Hypercalcemia
6. Storage diseases.
 - Lipid.
 - Leukodystrophies
 - Niemann Pick disease.
 - Gaucher's disease.
 - Glycogen.
 - Fabry's disease.
7. Hereditary Connective tissue disorders (Brief)
 - Osteogenesis imperfecta.
 - Ehlers's Danlos syndrome.
 - Chondrodysplasias.
 - Marfan syndrome.
 - Alport syndrome.

8. Disorders of amino acid metabolism and storage (Brief)

- Homocystinuria.
- Alkaptonuria.

- Hartnup disease.
- Renal glycosuria.

DISEASES OF BONES AND JOINTS

1. Osteoarthritis
2. Osteoporosis
3. Rheumatoid Arthritis and related Arthropathies
4. Paget's disease of the bone.
5. Osteopetrosis (Marble bone disease).

INFECTIOUS DISEASES

A. Clinical syndromes.

1. Sepsis and Septic shock, Meningococemia
2. Acute infectious diarrhoeal diseases and Bacterial food poisoning.
3. Hospital acquired infections.

B. Common disease syndromes caused by the following bacteria and their drug therapy.

1. Pneumococci (Streptococcus Pneumoniae).
2. Staphylococci.
3. Streptococci.
4. Hemophiles influenzae.
5. Shigella.
6. Gonococci.
7. Pseudomonas.

C. Following diseases in detail.

1. Tetanus.
2. Enteric fever/Salmonellosis.
3. Cholera.
4. Tuberculosis.
5. Leprosy.
6. Amoebiasis/Giardiasis/Trichomoniasis.
7. Malaria.
8. AIDS.
9. Rabies.
10. Infectious mononucleosis.

D. Helminthic infestations

- Ascariasis
- Hookworm
- Whipworm (Trichuriasis)
- Threadworm (Entrobiasis)
- Taenia (tapeworm)

MULTI-SYSTEM IMMUNOLOGICAL DISEASES

- Systemic lupus erythematosus (SLE)
- Serum sickness
- Rheumatoid arthritis

1. Systemic sclerosis (scleroderma).
2. Mixed connective tissue diseases (brief).
3. Sjogren's syndrome (brief).
4. Ankylosing spondylitis.
5. Bechet's syndrome (brief).
6. Vasculitis syndromes (brief).

- Anaphylactoid Purpura
- Polyarteritis nodosa
- Hypersensitivity vasculitis
- Wegner's granulomatosis
- Temporal arteritis
- Takayasu's arteritis
- Thromboangitis obliterans (Burger's disease)

7. Sarcoidosis (brief).

HAEMATOLOGY

1. Anaemias.

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

2. Haemoglobinopathies.

- Sickle cell syndromes
- Thalassemia's

3. Myeloproliferative diseases.

- Chronic myeloid leukemia (CML)
- Polycythemia vera
- Myelofibrosis
- Essential thrombocytosis

4. Leukemia's.

- Acute
- Chronic

5. Lymphomas

- Non-Hodgkin's
- Hodgkin's

6. Blood groups and blood transfusion.

7. Bone marrow transplantation.

8. Clotting disorders.

- Thrombocytopenia
 - Decreased production.
 - Increased destruction.
 - Idiopathic thrombocytopenic purpura (ITP)
- Von Willebrand's disease.
- Vessel wall disorders.
- Disorders of coagulation.

Hemophilia
Vitamin K deficiency.
Disseminated intravascular coagulation (DIC).

9. Anticoagulants Therapy

- Heparin
- Oral (warfarin etc.)
- Antiplatelet drugs

ENDOCRINOLOGY

1. Anterior pituitary.

- Growth hormone disorders
 - Acromegaly
 - Gigantism.
 - Short stature
 - Infertility

2. Diseases of hypothalamus and pituitary.

- Empty Sella syndrome
- Diabetes insipidus
- Syndrome of inappropriate ADH secretion (SIADH).

3. Thyroid gland.

- Hyperthyroidism (thyrotoxicosis)
- Hypothyroidism (myxedema, cretinism)
- Interpretation of thyroid functions tests

4. Adrenal Gland.

- Cushing Syndrome
- Aldosteronism Primary/Secondary.
- Hirsutism.
- Addison's disease, Acute Addisonian crisis
- Pheochromocytoma

5. Diabetes mellitus (detail) and Hypoglycemic states

6. Testes (brief).

- Sexual precocity
- Heterosexual precocity

7. Gynecomastia

8. Multiple endocrine neoplasia (brief).

- Type I
- Type II

CLINICAL TEACHING

Students come to wards for about 8 weeks for 4.5 hours for 6 times a week. They present and discuss cases; their clinical methods are checked and corrected. They write histories (10 in each ward), maintain clinical card of daily activity and perform day, night and casualty duties.

They observe, assist, and perform various procedures in the ward. The students come to the wards in the evening as well for self-learning, writing histories, preparing case presentations etc. Once a week a CPC is held where various units/departments present cases in turn. Case presentation is by students and discussion covered by consultants of the same unit. Topic/Subjects/Systems are distributed to the wards to streamline training.

Topics to be discussed in clinical teaching are:

1. CENTRAL NERVOUS SYSTEM

- Cerebrovascular accident
- Paraplegia
- Polyneuropathy
- Muscular dystrophies or Motor neurone disease
- Parkinsonism
- Meningitis
- Tetanus
- Hemiplegia
- Facial Palsy

2. ALIMENTARY SYSTEM

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

3. RHEUMATOLOGY

- Rheumatoid arthritis, Osteoarthritis
- Systemic Lupus Erythematosus

4. CARDIOVASCULAR SYSTEM

- Systemic hypertension
- Ischaemic Heart diseases

- Congestive cardiac failure
- Valvular diseases and Infective Endocarditis

5. RESPIRATORY SYSTEM

- Bronchial asthma
- Pleural effusion
- Pneumonia
- Hemoptysis
- Pulmonary tuberculosis
- Chronic obstructive airway disease
- Bronchogenic Carcinoma

6. FEVERS

- Malaria
- Typhoid fever

7. ENDOCRINOLOGY

- Diabetes mellitus
- Thyroid diseases
- Cushing's disease

8. BLOOD

- Anaemia
- Bleeding disorders
- Myeloproliferative or lymphoproliferative diseases

9. KIDNEY

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

10. MISCELLANEOUS AND EMERGENCIES

- Heat stroke
- Snake bite
- Electric shock
- Poisoning

PROCEDURES TO BE PERFORMED/OBSERVED/ASSISTED:

Perform:

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

Observe:

- Observe I/V lines/Fluids/Blood/Blood products, direct, branula, cutdown, CVP
- N/G 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
- Nebulization
- ECG taking/reading basics
- 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
- Bone marrow aspiration/Trephine

Learning Objectives and Course Contents in Medicine

Learning Objectives	Contents	Teaching Hours	Teaching Strategies	Domain	Assessment methods
<p>Students will be able to:</p> <ul style="list-style-type: none"> • value Doctor-Patient's relationship • define, differentiate, diagnose diseases • demonstrate clinical skills required for history taking, physical care and laboratory tests, care for diagnosing a disease stepwise and participate in the management plan of a patient under doctor supervision • differentiate clinically (History Physical examination) one DD from other. • participate in patient education and counselling 	<p>Introduction to General Medicine</p> <p>Overview of Medicine as a discipline and subject Learning Clinical Approach</p> <ol style="list-style-type: none"> 1. Doctor- Patient Relationship, Medical Ethics, Patient's safety. 2. Communication Skills 3. Behavioral Science <p>Approach to common symptoms of disease:</p> <ul style="list-style-type: none"> • General concept of Pain, chest pain and abdominal pain • Fever • Dyspnoea • Cough, expectoration, and Hemoptysis • Anorexia, Nausea, Vomiting, Weight loss and Weight gain • Hematemesis, Melaena, Haematochezia • Diarrhoea, Dysentery and Constipation • Oedema and Ascites • Jaundice • Syncope and Seizures • Fainting and Palpitations • Headache and Vertigo • Paralysis, movement disorders & disorders of gait • Coma and other disturbances of consciousness • Common urinary symptoms including anuria, oliguria, nocturia, polyuria, incontinence, and enuresis • Anaemia and Bleeding • Enlargement of Lymph nodes, Liver and Spleen • Joint pain, neck pain and back ache 	<p>L- 24 hrs.</p> <p>4 hrs(1x4)</p> <p>20 hrs.(1x20)</p>	<p>Lecture</p> <p>SGD</p> <p>Bedside teaching</p> <p>Skill laboratory</p>	<p>C1, C2, C3, C4</p> <p>P1, P2</p>	<p>MCQ, SEQ</p> <p>OSPE</p> <p>Viva Voce</p> <p>Demonstration of skills</p>

Learning Objectives	Contents	Teaching Hours	Teaching Strategies	Domain	Assessment methods
<p>The students will be able to:</p> <ul style="list-style-type: none"> Define nutrition and its importance Describe normal requirement of nutrients for maintaining health at various periods of human life including healthy adult, pregnancy, infancy, childhood, and adolescence classify nutritional disorders define protein energy malnutrition and explain its associated factors, precipitating factors list the clinical features, describe treatment of protein-energy malnutrition list and recognize the clinical features, provide treatment, and advise for prevention and treatment of vitamin deficiency diseases list and recognize the clinical features, provide treatment, and advise to be given for prevention and treatment of deficiency diseases and obesity. 	<p>Clinical Medicine: Nutritional Factors in diseases</p> <p>CORE:</p> <ul style="list-style-type: none"> Energy yielding nutrients Protein energy malnutrition in adult The vitamins- deficiency <p>Additional</p> <ul style="list-style-type: none"> Nutrition of patients in hospital Obesity <p>Lectures to be covered on</p> <ul style="list-style-type: none"> Nutrients and vitamin deficiency and Obesity 	L - 2 hrs.	Lecture SGD Bedside teaching Skill laboratory	C1, C2, C3, C4 P1, P2	MCQ, SEQ OSPE Viva Voce Demonstration of skills

<p>The students will be able to:</p> <ul style="list-style-type: none"> list the clinical features, describe principles treatment, and advise for prevention of heat hyperpyrexia, heat syncope and heat exhaustion and hypothermia list the clinical features, describe principles of treatment, and advise for prevention of pollution related to: <ul style="list-style-type: none"> Arsenic problem Lead poisoning Environmental radiation 	<p>Climatic and environmental factors in disease CORE:</p> <ul style="list-style-type: none"> Disorders related to temperature Disorders related to pollution Drowning, electrocution and radiation hazards Health hazards due to climate change 	<p>L - 2 hrs.</p>	<p>Lecture SGD Bedside teaching Skill laboratory</p>	<p>C1, C2, C3, C4 P1, P2</p>	<p>MCQ, SEQ OSPE Viva Voce Demonstration of skills</p>
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Learning Objectives	Contents	Teaching Hours	Teaching Strategies	Domain	Assessment methods
<p>The students will be able to:</p> <ul style="list-style-type: none"> • diagnose infectious diseases. • explain principles of management of infection • describe general principles and rational use of antibiotics and other chemotherapy against infectious and parasitic diseases • list the clinical features, describe principles of treatment, and advise for prevention of common infectious and tropical diseases. 	<p>Diseases due to infections</p> <p>CORE:</p> <ul style="list-style-type: none"> • Approach to infectious diseases-diagnostic and therapeutic principles • General principles and rational use of antibiotics • Enteric fever • Acute Diarrhoeal Disorders • Cholera & food poisoning • Amoebiasis, Giardiasis • Tetanus • Influenza and infectious mononucleosis • Malaria • Kala-azar • Filariasis • Helminthic diseases <ul style="list-style-type: none"> ▪ Nematodes ▪ Cestodes ▪ Trematodes • HIV and infections in the immunocompromised conditions • Rabies • Herpes simplex & herpes zoster • Chickenpox • Viral haemorrhagic fever: dengue • Anthrax • Brucellosis 	<p>L-17 hrs.</p>	<p>Lecture</p> <p>SGD</p> <p>Bedside teaching</p> <p>Skill laboratory</p>	<p>C1, C2, C3, C4</p> <p>P1, P2</p>	<p>MCQ, SEQ</p> <p>OSPE</p> <p>Viva Voce</p> <p>Demonstration of skills</p>

Learning Objectives	Contents	Teaching Hours	Teaching Strategies	Domain	Assessment
<p>The student will be able to define, describe prevalence, aetiologic factors, pathophysiology, pathology, investigations, and principles of treatment of the common problems in hematology.</p>	<p>Diseases of the blood CORE:</p> <ul style="list-style-type: none"> • Anemia • Leukemia • Lymphoma • Multiple myeloma • Bleeding disorders • Coagulation disorders <p>Additional:</p> <ul style="list-style-type: none"> • Transfusion medicine • Bone marrow transplantation 	<p>L - 9 hrs.</p>	<p>Lecture SGD Bedside teaching Skill laboratory</p>	<p>C1, C2, C3, C4 P1, P2</p>	<p>MCQ, SEQ OSPE Viva Voce Demonstration of skills</p>

<p>The students will be able to:</p> <ul style="list-style-type: none"> describe applied anatomy and physiology & explain lung function tests; describe prevalence, aetiologic factors, pathophysiology, pathology, investigations, and principles of treatment of common respiratory diseases. 	<p>Diseases of the respiratory system</p> <p>CORE:</p> <ul style="list-style-type: none"> Applied anatomy and physiology Investigations for respiratory diseases Upper respiratory tract infections Pneumonias Tuberculosis: 1(Pulmonary) Tuberculosis:2 (Extra-pulmonary) Lung abscess and bronchiectasis Diseases of the pleura: Pleurisy, Pleural effusion & empyema, Pneumothorax Chronic Obstructive lung diseases and Corpulmonale Bronchial asthma & pulmonary eosinophilia Acute and chronic respiratory failure Neoplasm of the lung <p>Additional:</p> <ul style="list-style-type: none"> Common occupational lung disease with DPLD 	<p>L - 13 hrs.</p>	<p>Lecture</p> <p>SGD</p> <p>Bedside teaching</p> <p>Skill laboratory</p>	<p>C1, C2, C3, C4</p> <p>P1, P2</p>	<p>MCQ, SEQ</p> <p>OSPE</p> <p>Viva Voce</p> <p>Demonstration of skills</p>
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Learning Objectives	Contents	Teaching Hours	Teaching Strategies	Domain	Assessment methods
<p>The student will be able to:</p> <ul style="list-style-type: none"> describe applied anatomy, applied physiology and investigations for the diseases of cardiovascular system describe aetiology, pathophysiology, clinical features, investigations, and treatment of Ischaemic heart disease describe aetiology, pathophysiology, clinical features, investigations, and treatment of acute rheumatic fever & rheumatic heart diseases describe aetiology, pathophysiology, clinical features, investigations, and treatment of valvular diseases describe aetiology, pathophysiology, clinical features, investigations, treatment, and complications of infective endocarditis describe aetiology, pathophysiology, clinical features, investigations, treatment, and complications of systemic hypertension define and describe cardiac arrhythmias 	<p>CVS</p> <p>CORE</p> <ul style="list-style-type: none"> Applied anatomy and physiology and investigations Ischaemic heart disease - <ul style="list-style-type: none"> Angina pectoris Myocardial infarction Sudden (cardiac) death Rheumatic fever Valvular diseases of heart <ul style="list-style-type: none"> Mitral stenosis & regurgitation Aortic stenosis & regurgitation Tricuspid & pulmonary valve diseases Infective endocarditis Hypertension Cardiac arrhythmias (common) <ul style="list-style-type: none"> Sinus rhythms Atrial and ventricular arrhythmias Anti-arrhythmic drugs Heart block and pacemakers. Heart failure – acute and chronic Acute and chronic pericarditis, pericardial effusion, & cardiac tamponade <p>Additional:</p> <ul style="list-style-type: none"> Peripheral arterial diseases Common congenital heart diseases in child and adult Venous Thrombosis and Pulmonary Thromboembolism 	<p>L - 12 hrs.</p>	<p>Lecture</p> <p>SGD</p> <p>Bedside teaching</p> <p>Skill laboratory</p>	<p>C1, C2, C3, C4</p> <p>P1, P2</p>	<p>MCQ, SEQ</p> <p>OSPE</p> <p>Viva Voce</p> <p>Demonstration of skills</p>

Learning Objectives	Contents	Teaching Hours	Teaching Strategies	Domain	Assessment methods
<ul style="list-style-type: none"> • describe congenital heart diseases • define, describe patho-physiology, types, clinical features, investigation, and treatment of heart failure • define, describe patho-physiology, causes, clinical features, and treatment of acute circulatory failure • describe aetiology, pathophysiology, clinical features, investigations, treatment and complications of diseases of the pericardium 	Congenital heart diseases <ul style="list-style-type: none"> ▪ ASD ▪ VSD ▪ PDA ▪ TOF ▪ Co arctation of Aorta Acute circulatory failure Diseases of pericardium <ul style="list-style-type: none"> ▪ Acute pericarditis ▪ P ericardial effusion Cardiac tamponade Cardiomyopathies		Lecture SGD Bedside teaching Skill laboratory	C1, C2, C3, C4 P1, P2	MCQ, SEQ OSPE Viva Voce Demonstration of skills

<p>The student will be able to</p> <ul style="list-style-type: none"> • define, describe the aetiology, pathophysiology, investigation, complications, and management. of peptic ulcer disease • define, describe the aetiology, pathophysiology, investigation, and management. of gastrointestinal haemorrhage • describe Investigations of the alimentary tract. • define, describe the causes, pathophysiology, investigation, and management. of gastro-Oesophageal reflux disease • define, describe the aetiology, pathophysiology, investigation, and management of dysphagia. • define & describe the aetiology pathophysiology, investigation, and management of malabsorption disorders • define & describe the aetiology, pathophysiology, investigation, and management of Inflammatory bowel disease - Crohn's disease, Ulcerative colitis. • define & describe the aetiology, pathophysiology, investigation, and management of acute pancreatitis • define & describe the aetiology, pathophysiology, investigation, and management of functional disorders of GIT • define & describe the aetiology, pathophysiology, investigation, complications, and management of acute and chronic liver disease 	<p>Diseases of the Gastro-intestinal and Hepato-biliary systems</p> <p>CORE:</p> <ul style="list-style-type: none"> • Applied physiology and investigation of the alimentary tract. • Stomatitis and Mouth Ulcers • Peptic Ulcer disease and non-ulcer dyspepsia • Malabsorption syndrome • Irritable bowel syndrome • Inflammatory bowel disease • Acute viral hepatitis • Chronic Liver Diseases and its complications • Acute and chronic Pancreatitis <p>Additional:</p> <ul style="list-style-type: none"> • Dysphagia • Hepatotoxicity of drugs • Carcinoma of stomach/colon, Hepatocellular carcinoma 	<p>L – 12 hrs.</p>	<p>Lecture</p> <p>SGD</p> <p>Bedside teaching</p> <p>Skill laboratory</p>	<p>C1, C2, C3, C4</p> <p>P1, P2</p>	<p>MCQ, SEQ</p> <p>OSPE</p> <p>Viva Voce</p> <p>Demonstration of skills</p>
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Learning Objectives	Contents	Teaching Hours	Teaching Strategies	Domain	Assessment methods
<p>The students will be able to</p> <ul style="list-style-type: none"> • define, diagnose, investigate, and treat different nephrological diseases • make differential diagnosis • mention basic/ initial treatment • name the conditions for referral & follow-up care • describe preventive measures • explain the reasons for gender differences & issues, e.g., UTI in males & females • describe the special dietary modulations & Nutrition • outline of RRT • mention indications for RRT • list the special renal medicines & their interactions with commonly used medicines • describe nephrotoxicity of 	<p>Nephrology & Urinary System</p> <p>CORE:</p> <ul style="list-style-type: none"> • Nephritic & Nephrotic Illness • UTI/ Pyelonephritis • ARF/Acute Kidney Injury • Chronic Kidney Disease • Renal manifestations of systemic diseases <p>Additional:</p> <ul style="list-style-type: none"> • Adult polycystic kidney disease 	5 hrs.	<p>Lecture</p> <p>SGD</p> <p>Bedside teaching</p> <p>Skill laboratory</p>	<p>C1, C2, C3, C4</p> <p>P1, P2</p>	<p>MCQ, SEQ</p> <p>OSPE</p> <p>Viva Voce</p> <p>Demonstration of skills</p>

<p>student should be able to:</p> <ul style="list-style-type: none"> • identify syndromes of CNS & PNS diseases • identify signs of CNS & PNS diseases • identify clinical syndromes of brain, spinal cord & peripheral nerve. disorders • plan investigations in neurological disease • identify Vascular neuralgic syndromes. • define where? & What? is the lesion • describe the risk factors for CVD's • perform acute management & Subsequent management. • identify complicating, management • value the importance of rehabilitation / return of function • identify clinical syndrome of meningeal infection • plan immediate and subsequent investigations including confirmation of diagnosis. • plan investigations in a suspected V. encephalitis. • describe general management of patient with fever, coma & convulsion. • state the specific Diagnosis of encephalitis & treatment • identify acute & chronic syndromes of P.N.S. • identify emergencies and manage • make D/D • describe management & Rehabilitation 	<p>Neurology</p> <ul style="list-style-type: none"> • Concept of neurological diagnosis including investigations • Cerebrovascular diseases (I &II) • Headache • Meningitis: viral, bacterial, and tuberculous • Encephalitis • Peripheral neuropathy • Disorder of cranial nerves 	<p>13 hrs.</p>	<p>Lecture SGD Bedside teaching Skill laboratory</p>	<p>C1, C2, C3, C4 P1, P2</p>	<p>MCQ, SEQ OSPE Viva Voce Demonstration of skills</p>
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Learning Objectives	Contents	Teaching Hours	Teaching Strategies	Domain	Assessment methods
<p>Student should be able to:</p> <ul style="list-style-type: none"> • identify a seizure & elicit history from an eyewitness. • identify common clinical syndrome of Epilepsy • plan management • advise to the patient and attendants. • identify syndrome of EP system • mention aetiologic agent(s) • plan investigations • decide for initial and subsequent treatment. • provide explanation, motivation and rehabilitation advises to patient. • identify common syndromes of motor system disease. • plan investigations • identify primary muscle diseases and differentiate from primary neurologic diseases • identify clinical syndrome of Neuromuscular junctional defect. • plan investigations in a suspected muscle disease • provide treatment for myasthenia gravis. • advises & genetic counselling for muscular dystrophy. 	<ul style="list-style-type: none"> • Epilepsy • Extrapyramidal diseases • Common compressive and noncompressive spinal cord syndromes • Myasthenia gravis • Myopathies and skeletal muscle disease 	<p>13 hrs. (Total)</p>	<p>Lecture SGD Bedside teaching Skill laboratory</p>	<p>C1, C2, C3, C4 P1, P2</p>	<p>MCQ, SEQ OSPE Viva Voce Demonstration of skills</p>

Learning Objectives	Contents	Teaching Hours	Teaching Strategies	Domain	Assessment methods
<p>The students will be able to:</p> <ul style="list-style-type: none"> ● describe causes, clinical features and management of fluid and electrolyte disorders including <ul style="list-style-type: none"> <input type="checkbox"/> Hyponatremia <input type="checkbox"/> Hypernatremia <input type="checkbox"/> Hyperkalemia <input type="checkbox"/> Hypokalemia ● describe causes, clinical features, and management of disorders of acid-base balance in particular relevance to vomiting, diagnoses of uremia and diabetic ketoacidosis. 	<p>Water and electrolytes and acid-base homeostasis</p> <p>CORE:</p> <ul style="list-style-type: none"> ● Disorders due to Sodium and Potassium imbalance ● Disorders of acid-base balance 	<p>L – 2 hrs.</p>	<p>Lecture</p> <p>SGD</p> <p>Bedside teaching</p> <p>Skill laboratory</p>	<p>C1, C2, C3, C4</p> <p>P1, P2</p>	<p>MCQ, SEQ</p> <p>OSPE</p> <p>Viva Voce</p> <p>Demonstration of skills</p>
<p>The student will be able to:</p> <ul style="list-style-type: none"> ● describe applied anatomy, physiology, and investigations of endocrine disorders ● describe epidemiology, aetiology, pathophysiology, clinical features, complications, investigation, treatment, and management of diabetes mellitus ● describe epidemiology, aetiology, pathophysiology, clinical features, complications, investigation, treatment, and management of disorders of thyroid including <ul style="list-style-type: none"> <input type="checkbox"/> Hyperthyroidism <input type="checkbox"/> Hypothyroidism <input type="checkbox"/> Solitary thyroid nodule <input type="checkbox"/> Parathyroid disorders and calcium metabolism ● describe epidemiology, aetiology, pathophysiology, clinical features, complications, investigation, treatment and management disorders of adrenal gland including <ul style="list-style-type: none"> <input type="checkbox"/> Cushing’s syndrome <input type="checkbox"/> Addison’s disease ● describe epidemiology, aetiology, pathophysiology, clinical features, complications, investigation, treatment and management of disorders of hypothalamus and pituitary gland including <ul style="list-style-type: none"> <input type="checkbox"/> Acromegaly, Sheehan’s syndrome 	<p>Endocrine and Metabolic diseases</p> <p>CORE:</p> <ul style="list-style-type: none"> ● Diabetes mellitus (I & II) ● Thyrotoxicosis ● Hypothyroidism. ● Cushing’s syndrome and ● Hypo- and Hyperparathyroidism ● Calcium and Vitamin –D related disorders <p><i>Additional</i></p> <ul style="list-style-type: none"> ● Acromegaly and Sheehan’s syndrome 	<p>L – 6 hrs.</p>	<p>Lecture</p> <p>SGD</p> <p>Bedside teaching</p> <p>Skill laboratory</p>	<p>C1, C2, C3, C4</p> <p>P1, P2</p>	<p>MCQ, SEQ</p> <p>OSPE</p> <p>Viva Voce</p> <p>Demonstration of skills</p>

Learning Objectives	Contents	Teaching Hours	Teaching Strategies	Domain	Assessment methods
<p>The students will be able to:</p> <ul style="list-style-type: none"> • classify diseases of the connective tissues, joints, and bones • mention the epidemiology, aetiology, pathology, clinical features, complications, investigation, treatment, and management of Inflammatory joint diseases. • mention epidemiology, aetiology, pathogenesis, clinical features, investigation, diagnosis, treatment and management 	<p>Connective tissue Disorder</p> <p>CORE:</p> <ul style="list-style-type: none"> • Rheumatoid arthritis • Degenerative joint diseases • Gout • Ankylosing spondylitis and other spondyloarthropathies. • The collagen vascular diseases including systemic lupus erythematosus, systemic sclerosis • Osteoporosis 	<p>L - 6 hrs.</p>	<p>Lecture</p> <p>SGD</p> <p>Bedside teaching</p> <p>Skill laboratory</p>	<p>C1, C2, C3, C4</p> <p>P1, P2</p>	<p>MCQ, SEQ</p> <p>OSPE</p> <p>Viva Voce</p> <p>Demonstration of skills</p>

Learning Objectives	Contents	Teaching Hours	Teaching Strategie	Domain	Assessment methods
<p>The students will be able to:</p> <ul style="list-style-type: none"> • take history of elderly patients • perform physical examination • perform mental status examination • evaluate functional capacity of the elderly • interpret the report of 	<p>Geriatric medicine CORE:</p> <ul style="list-style-type: none"> • General Principles of treating the elderly • Health problems of the elderly • Four Geriatric Giants – Acute Confusional State, Falls, Incontinence and Frailty. • Healthy aging • Rehabilitation and Physical medicine. 	L – 3 hrs.	Lecture SGD Bedside teaching Skill laboratory	C1, C2, C3, C4 P1, P2	MCQ, SEQ OSPE Viva Voce Demonstration of skills
<p>The students will be able to describe medical</p> <ul style="list-style-type: none"> <input type="checkbox"/> Genes and chromosomes <input type="checkbox"/> Mutation <input type="checkbox"/> Genes in individual <input type="checkbox"/> Genes in families <input type="checkbox"/> Disorders of multifactorial <input type="checkbox"/> Chromosomal aberrations <p>The student will be able to describe the techniques genetics including</p> <ul style="list-style-type: none"> <input type="checkbox"/> Cyto genetics <input type="checkbox"/> Biochemical genetics <input type="checkbox"/> Molecular genetics <input type="checkbox"/> Prenatal diagnosis <input type="checkbox"/> Neoplasia: chromosomal & DNA analysis 	<p>Genetic Disorders CORE:</p> <ul style="list-style-type: none"> • General concept of genetic diseases and management of genetic disorder • Single gene disorder • Clinical aspects of medical biotechnology • Chromosomal disorder (Down, Turner, Klinefelter's) 	L -2 hrs.	Lecture SGD Bedside teaching Skill laboratory	C1, C2, C3, C4 P1, P2	MCQ, SEQ OSPE Viva Voce Demonstration of skills

Learning Objectives	Contents	Teaching Hours	Teaching Strategies	Domain	Assessment methods
<p>The students will be able to describe basic facts of immunology including</p> <p>Immunoglobulins & antibodies</p> <p>Cellular immunity</p> <p>Autoimmunity</p> <p>The students will be able to describe aetiology, pathogenesis, pathology, clinical features, investigations, and treatment of</p> <ul style="list-style-type: none"> • Immunologic deficiency diseases • Autoimmune disease • Allergic disease 	<p>Immunologic disorders CORE:</p> <ul style="list-style-type: none"> • Immunologic deficiency diseases • Auto immunity, Allergy & hypersensitivity, and immunogenetics & transplantation • Immunosuppressive drugs 	2 hrs.	Lecture SGD Bedside teaching Skill laboratory	C1, C2, C3, C4 P1, P2	MCQ, SEQ OSPE Viva Voce Demonstration of skills
<p>The students will be able to describe:</p> <ul style="list-style-type: none"> • prevention and early detection of common cancers • primary cancer treatment including <ul style="list-style-type: none"> <input type="checkbox"/> Surgery and radiation <input type="checkbox"/> Chemotherapy <input type="checkbox"/> Adjuvant therapy • evaluation of tumor response including <ul style="list-style-type: none"> <input type="checkbox"/> Tumour size <input type="checkbox"/> Tumour markers <input type="checkbox"/> General wellbeing and performance status • role of nuclear medicine in diagnosis and treatment in Medical conditions. 	<p>Oncology, Principles CORE:</p> <ul style="list-style-type: none"> • General principles of diagnosis and management of neoplastic diseases • Palliative care 	2 hr. 1hr			

Learning Objectives	Contents	Teaching Hours	Teaching Strategies	Domain	Assessment methods
<p>The students will be able to describe:</p> <ul style="list-style-type: none"> • initial evaluation of the patient with poisoning or drug overdose • general principles of management including <ul style="list-style-type: none"> □ Care of unconscious patient □ Respiratory support □ Cardiovascular support □ Special problems such as hypothermia, hypertension, arrhythmia, 	<p>Poisoning and drug overdose</p> <p>CORE:</p> <ul style="list-style-type: none"> • Initial evaluation of the patient with poisoning or drug overdose and general principles of management • Treatment of common specific poisonings <ul style="list-style-type: none"> a) Organophosphorus compounds b) Sedatives and Hypnotics c) Household Poisons • Venomous stings, insect bites, poisonous snakes and insects. 	6 hrs.	Lecture SGD Bedside teaching Skill laboratory	C1, C2, C3, C4 P1, P2	MCQ, SEQ OSPE Viva Voce Demonstration of skills

<p>The students will be able to describe:</p> <ul style="list-style-type: none"> • general principles of intensive care • acute disturbances of hemodynamic function including Shock • aetiology, pathogenesis, clinical features, investigations, and management in acute medical emergency 	<p>Emergency medicine</p> <p>CORE:</p> <ul style="list-style-type: none"> • Cardiac Arrest – ALS, BLS • Acute pulmonary oedema and severe acute asthma • Hypertensive emergencies • Diabetic ketoacidosis and hypoglycemia • Status epileptics • Acute myocardial infarction, shock, and anaphylaxis • Upper G.I bleeding and hepatic coma • Diagnosis and management of comatose patient 	<p>6 hrs.</p>	<p>Lecture</p> <p>SGD</p> <p>Bedside teaching</p> <p>Skill laboratory</p>	<p>C1, C2, C3, C4</p> <p>P1, P2</p>	<p>MCQ, SEQ</p> <p>OSPE</p> <p>Viva Voce</p> <p>Demonstration of skills</p>
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Learning Objectives	Contents	Teaching Hours	Teaching Strategies	Domain	Assessment methods
<p>The students should be able to :</p> <ul style="list-style-type: none"> • use a humane approach during history taking and performing a physical examination • examine all organs/systems in adults and children including neonates • arrive at a logical working diagnosis after clinical examination (General & Systemic) • order appropriate <ul style="list-style-type: none"> □ socio-economic status □ institutional / government guidelines • recognise situations which call for urgent or early treatment at secondary and tertiary centers and make a prompt referral of such patients after giving first aid • identify irrational prescriptions and explain their irrationality • interpret serological tests • demonstrate interpersonal and physician in order to discuss the and family • write a complete case record with all necessary details 	<p>Clinical Methods in the Practice of Medicine</p> <p>CORE:</p> <ul style="list-style-type: none"> • History Taking • Physical Examination • Investigations • Diagnosis • Principles of treatment • Interpersonal skills • Communication skills • Doctor - Patient relationship • Ethical Behaviour • Patient's Safety • Referral services • Medical Certificate • Common Clinical Procedures <ul style="list-style-type: none"> □ Injections □ IV infusion and transfusion □ FIRST AID □ Intubation □ CPR □ Hyperpyrexia □ ECG □ Skin Sensitivity Test 	<p>Ward Rotation: 3rd year: 10 weeks</p> <p>4th Year: 7 weeks</p> <p>5th Year:</p>	<p>Bedside teaching</p> <p>Skill laboratory</p>	<p>C1, C2, C3, C4</p> <p>P1, P2</p>	<p>OSPE</p> <p>Viva Voce</p> <p>Long Case</p> <p>Demonstration of skill</p>

Learning Objectives	Contents	Teaching Hours	Teaching Strategies	Domain	Assessment methods
<ul style="list-style-type: none"> • write a proper discharge summary with all relevant information • write an appropriate referral note to secondary or tertiary centers or to the physicians with all necessary details • assess the need for and issue proper medical certificates to patients for various purposes • record and interpret an ECG and be able to identify common abnormalities like myocardial infarction, arrhythmias • start I.V. line and infusion • perform venous cut down • give intradermal / SC / IM / IV / injections • insert and manage a C.V.P. line • conduct CPR (Cardiopulmonary 	<p>CORE</p> <ul style="list-style-type: none"> • Lumbar puncture • Bone marrow aspiration • Thoracocentesis / paracentesis • Oxygen Therapy • Oropharyngeal suction • Shock management • Bronchodilator inhalation technique, nebulization • Urethral Catheterization <p>Additional</p> <ul style="list-style-type: none"> • Administration of Enema • Postural drainage • Dialysis 	<p>Ward Rotation :3rd year: 10 weeks</p> <p>4th Year: 7 weeks</p> <p>5th Year: 9 weeks</p>	<p>Bedside teaching</p> <p>Skill laboratory</p>	<p>C1, C2, C3, C4</p> <p>P1, P2</p>	<p>OSPE</p> <p>Viva Voce</p> <p>Long Case</p> <p>Demonstration of skill</p>

<p>Attitude:</p> <p>The student should:</p> <ol style="list-style-type: none"> 1. develop a proper attitude towards patients, colleagues, and the staff. 2. demonstrate empathy and humane approach towards patients, relatives, and attendants. 3. maintain ethical behavior in all aspects of medical practice. 4. develop a holistic attitude towards medicine taking in social and cultural factors in each case 5. obtain informed consent for any examination / procedure 6. appreciate patients right to privacy 7. adopt universal precautions for self-protection against HIV and hepatitis and counsel patients 8. be motivated to perform skin sensitivity tests for drugs and serum 	<p>Attitudes to be supervised by clinical teachers.</p>	<p>Ward Rotation :3rd year: 10 weeks</p> <p>4th Year: 7 weeks</p> <p>5th Year: 9 weeks</p>	<p>Bedside teaching</p>	<p>Receiving Responding Valuing Organization Characterization</p>	<p>OSPE Peer review 360* review</p>
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Learning Methodologies

The department utilizes the following modes of teach transfer to enhance students' active learning and knowledge retention.

1. Large Class Learning
2. Small group learning
3. Conference /Webinars/ Workshop
4. Photographs, Slides and Video learning
5. Practical exercises.
6. Self-Learning opportunities
7. Student Assignments, Presentations, and Projects

Assessment Methodologies

1. Written paper comprising of
 - MCQS
 - SEQS
2. OSCE
3. Long case
4. Short cases

TIMETABLE

TIME TABLE FOR 3rd YEAR MBBS, SESSION 2018-19							
DAY	1	2	3	4	5	6	7
	08 00 - 08 45	08 45- 09 30	09 30-10 15	10 15-11 00	11 00- 13 00	13 00- 13 30	13 30- 15 00
Monday	Test		Forensic Medicine	Pathology	Practical	Zohar Break	Practical
Tuesday	Behavioral Sciences	Pathology	Pharmacology	Forensic Medicine	Ward/Skill Lab		Practical
Wednesday	Pathology	Pharmacology	Forensic Medicine	Medicine	Ward/Skill Lab		Practical
Thursday	Surgery	Pharmacology	Pathology	Forensic Medicine	Tutorial		Discussion of test
Friday	Behavioral Sciences	Pathology	Pharmacology	Forensic Medicine	Tutorial		Tutorial

AZIZ FAITMAH MEDICAL AND DENTAL COLLEGE, FAISALABAD

TIMETABLE FOR 4th YEAR MBBS

DAY	DATE	1	2	3	4	5
		08 00 - 08 45	08 45- 09 30	09 30-10 15	10 30 - 13 00	13 30 - 15 00
Monday		Class test		Pathology	Ward	Practical-Patho
Tuesday		ENT	Gynae	Pathology		CM
Wednesday		ENT	CM	Pathology		Tutorial Patho
Thursday		EYE	Surgery	Pathology		Practical-Patho-CM
Friday		EYE	Medicine	CM		Self-Directed learning

AZIZ FAITMAH MEDICAL AND DENTAL COLLGE, FAISALABAD

TIMETABLE FOR FINAL YEAR MBBS

DAY	1	2	3	4	5
	08 00 - 08 45	08 45 - 09 30	09 30 - 13 30	13 30 - 14 00	14 00- 14 45
Monday	Pediatrics	Medicine	Ward Rotation	Prayer Break	Surgery
Tuesday	Medicine	Surgery			Pediatrics
Wednesday	Medicine	Surgery			Obs Gyn
Thursday	Obs Gyn	Surgery			Medicine
Friday	Surgery	Medicine			

STUDENT CLINICAL ROTATION

Batch Allocation

Each Class is divided into clinical batches as mentioned in the tables below. Clinical Rotation is started from third year MBBS onwards.

	Third year MBBS	Fourth Year MBBS	Final Year MBBS
Clinical rotation in:	Medicine, Surgery, Eye, ENT, Skill Laboratory.	Eye, ENT, Medicine, Surgery, Obsgyn, Neurology, Orthopedics, Community Medicine, Pediatrics	Medicine, Surgery, Obs-Gyne. Pediatrics
No. of Batches	4	7	4
Students per batch	25	14/ 15	25
Duration of one rotation	10 weeks	4 weeks	9 weeks

Rotation schedule

Rotation schedule for each of the three years is as below.

<u>AZIZ FATIMAH MEDICAL & DENTAL COLLEGE FAISALABAD</u>								
TIMETABLE FOR 3RD YEAR CLASS								
WARD PROGRAM								
WARDS	10 weeks		10 weeks		10 weeks		10 week	
Medicine	A		D		C		B	
Surgery	B		C		D		A	
Skill Lab	C		B		A		D	
	5 WEEKS	5 WEEKS	5 WEEKS	5 WEEKS	5 WEEKS	5 WEEKS	5 WEEKS	5 WEEKSA
ENT	D1	D2	A1	A2	B1	B2	C1	C2
Eye	D2	D1	A2	A1	B2	B1	C2	C1
Group A (I) 1st 25			Group C (III) 3rd 25				Group D 2 (V) 5th 13	
Group B (II) 2nd 25			Group D 1 (IV) 4th 12					
Note:								
3rd Year will go hospital twice a week Tuesday & Wednesday								
Senior Registrar for Skill Lab session.								

Schedule for Third Year MBBS – Skill Laboratory

	Medicine	Session	Teaching Week
1.	N/G Tube Insertion	Session 1	Week 1
2.	Foley's Catherization a) Male b) Female	Session 1	
3.	Endotracheal Incubation	Session 2	Week 2 and Week 3
4.	Auscultation of CVS	Session 3 – Session 4	
5.	Auscultation of Respiratory System	Session 5	
6.	I/V Line	Session 6	Week 4
7.	CPR (Adult)	Session 7	
8.	I/M Injection	Session 8	Week 5
	Pediatrics		
1.	CPR (Child)	Session 9	Week 5
	Gynecology		
1.	Stages of Labor	Session 10	Week 6
	Surgery		
1.	Sterilization (Washing Up, Gloving, Gowning)	Session 11	Week 6
2.	Instrument handling	Session 11	Week 7
3.	Breast Examination	Session 12	
4.	Prostate Examination	Session 12	Week 8
5.	Incision on model if available	Session 13	
6.	FNAC and Core-cut Biopsy	Session 13	Week 9
	ENT		
1.	ENT Examination	Session 14	Week 9
	EYE		

AZIZ FATIMAH MEDICAL & DENTAL COLLEGE FAISALABAD
TIMETABLE FOR FOURTH YEAR CLASS

WARD PROGRAM

WARDS	4 weeks	4 weeks	4 weeks	4 weeks	4 weeks	4 weeks	4 weeks	
ENT	A	G	F	E	D	C	B	
Eye	B	A	G	F	E	D	C	
Neuro/Ortho	C	B	A	G	F	E	D	
Surgery	D	C	B	A	G	F	E	
Medicine	E	D	C	B	A	G	F	
Ob-Gyne	F	E	D	C	B	A	G	
Community Medicine	G	F	E	D	C	B	A	

1	Fundoscopy	Session 15	Week 10
	TEST	Session 16	Week 10

AZIZ FATIMAH MEDICAL & DENTAL COLLEGE FAISALABAD
TIME TABLE FOR FINAL YEAR CLASS

WARD PROGRAM

Wards	9 weeks	9 weeks	9 weeks	9 weeks
Medicine and allied	A	D	C	B
Surgery and Allied	B	A	D	C
Obstetrics and Gynecology	C	B	A	D
Paediatric	D	C	B	A

THE LOGBOOK/CLINICAL CARD RECORD

The student is expected to make a reflective record of his/her achievements in the logbook. The logbook is a collection of evidence that learning has taken place, it is a reflective record of achievements. The logbook shall also contain a record of the procedures which student would have performed in third year, fourth year and final year clinical classes.

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

**MBBS FINAL PROFESSIONAL EXAMINATION
MEDICINE-I
Table of specification**

SEQs

Maximum marks: 45

Time: 2 hours

All questions carry equal marks.

Attempt all questions

<u>Topic</u>	No of SEQs
1. Cardiovascular System	02
2. Pulmonary medicine	01
3. Central Nervous System	01
4. Gastrointestinal System	02
5. Liver, Pancreas, Gallbladder	01
6. Blood	01
7. Rheumatology	01

MCQs

Total MCQs 45

Time: 1 hour

Marks for each MCQ: 01

Type of MCQs: One Best of Five

Topic	No of MCQ, s
1. Cardiovascular System	07
2. Pulmonary medicine	07
3. Central Nervous System	07
4. Gastrointestinal System	07
5. Liver, Pancrease, Gallbladder	06
6. Blood	05
7. Rheumatology	06

MBBS FINAL PROFESSIONAL EXAMINATION MEDICINE-II

Table of specification SEQ, s

Maximum marks: 45

Time: 2 hours

All questions carry equal marks.

Attempt all questions.

Sr. No	Topic Specification	SEQs
1	Endocrines	02
2	Renal/Kidneys, Water, Acid Base /Electrolyte, Metabolism	02
3	Infection/Tropical Disease	02
4	Neuropsychiatry	02
5	Dermatology	01
Total		09

MCQ, s

Total MCQs 40

Time:60 minutes

Time for each MCQs: 1 ½ minutes

Marks for each MCQs: one

Type of MCQs one Best of Five

Sr. No	Topic Specification	MCQs
1	Endocrines: a) Diabetes Mellitus. b) Thyroid c) Adrenals d) Misc./ other	05 (Breakup of MCQs as follows) 01 01 01 02
2	Renal/Kidneys, Water, Acid Base /Electrolyte, Metabolism	10
3	Infection/Tropical Disease	07
4	Neuropsychiatry: a) Signs and Symptoms in Psychiatric patients b) Patients presenting with fear and panic. c) Persistent complainer and somatization. d) The depressed patient. e) Patients brought with features of psychosis (odd, excited, aggressive). f) Conversion States. g) Mental Handicap. h) Confused and disoriented patients i) Substance abuse disorder. j) Obsessional states.	10 (Breakup of MCQs) One MCQs from each Topic.
5	Dermatology: a) Eczema b) Papulosquamous dermatoses c) Drug Eruptions d) Bullous Dermatomes e) Bacterial Infections of Skin. f) Cutaneous Infestations. g) Sexually Transmitted infections. h) Skin Manifestations of systemic Disorder.	10 (06 MCQs from the topics given)
6	Nutrition: Data/Photo	02

MBBS Final Professional Examination (For all affiliated Medical Colleges)

S. No	Subject	Theory						Int. Assessment	Sub Total	Clinical	Oral and Practical	Int. Ass	Sub Total	Grand Total
		SEQs			MCQs									
1	Medicine-I	45 Marks	9 SEQs	5 marks each	45 marks	45 MCQs	1 marks each	25	200	210	65	25	300	500
			2hours			1hours								
2	Medicine-II	45 Marks	9 SEQs	5 marks each	40 marks	40 MCQs	1 marks each	25	200	210	65	25	300	500
			2hours			1hours								