



RAHBAR MEDICAL & DENTAL COLLEGE

Study Guide **Final Year MBBS** **2024-2025**

Focal Person: And Author:
Approved By:

Dr. Sadaf Hammad
Prof. Dr. Muhammad Tahir

A good study guide acts as a compass to help students to know their Destination, which is course objectives, while an excellent study Guide drives them all the way to reach there.

Introduction to study guide

This study guide book is developed for Medical undergraduates by consolidated efforts with an intention to help the medical students of MBBS RMDC to manage their learning rather provision of curriculum content information alone. The study guide also demonstrates a number of activities to help student to build her/his own learning portfolio that may be used to monitor learning progress and assessment as well. The study guide aims to promote self-regulated lifelong learning among students by giving them the control over their learning.

The pervasive curriculum aspects of undergraduates' competencies, assessment policies and curriculum coordinators are mapped in his guide book. Horizontal integration across the year gives better conceptual understanding while vertical integration promotes clinically relevant understanding. Medicine department CMH aims to improve health indicators of society by improvement of students and doctors in preventive health service provision and health education provision to society through community programs.

The study guide gives an overview of intended course outcomes and objectives in relation to the course content. The assessment methodology tailored to intuitional strategy is provided.

This study guide has been carefully designed keeping in view PMC and NUMS curriculum and guide lining dedicated effort by faculty is done to make this guide tailored to student's needs. Students feedback has been seeded and incorporated at all stages during study guide development. Curriculum is a living dynamic entity. Our aim is to improve it by every passing day. This humble effort of all faculty acts as a guiding light for our dear students.

Vision Statement OF RMDC

RMDC vision is to keep its medical graduates adept with emergency global health challenges, educational methodologies and technological advances to maintain its position as a leading medical college of Pakistan

Mission Statement

The mission of Rahber Medical and Dental Medical College is to produce competent physicians through quality health education , research training and altruism .We prioritize lifelong learning, professional development, social accountability contextually and globally

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 nephrology, neurology, 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 gasses are done in the pathology department and facilities of CT scan, MRI, X-Ray's thorough the sister department of radiology.
- In nephrology we offer hemodialysis.

- In the gastroenterology section, gastroscopy and colonoscopy are performed along with other associated procedures.
- In neurology we offer electroencephalography.

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. Development of department of medicine and Punjab Ranger's teaching hospital is really a blessing for the Ranger's patients.

Resource Person

Prof. Dr. Muhammad Amir

Rationale of Curriculum

The curriculum is designed to address both local and international needs. The curriculum is focused to prepare students for the international licensing exams and training abroad as well as empowering them to treat local patients with safety and efficiency. Doctors work as a healer in the community. A doctor should have evidence based and updated knowledge about the epidemiology of the practicing area. The curriculum of RMDC is planned with a collaboration of clinical and basic sciences faculty in addition to students and medicine department to ensure that the prevailing health conditions of the society are treated and dealt with effectively. The emergence of new techniques in all areas of medicine has led to changes in the curriculum with more emphasis on new and advanced techniques, procedures and evolution of new and advanced technology

Introduction to Curricular Framework

This study guide is developed as resource assistance to the students and faculty. The study guide development process included representation from teaching faculty, management, leadership of college and students. The study guide is made to achieve alignment between societies' needs, institutional needs, patient needs & student's needs.

The curriculum implemented is a hybrid type of curriculum which has both horizontal and vertical integration. Spiral integration is introduced as an adjunct to horizontal and vertical integration. The curriculum spans over 3 phases

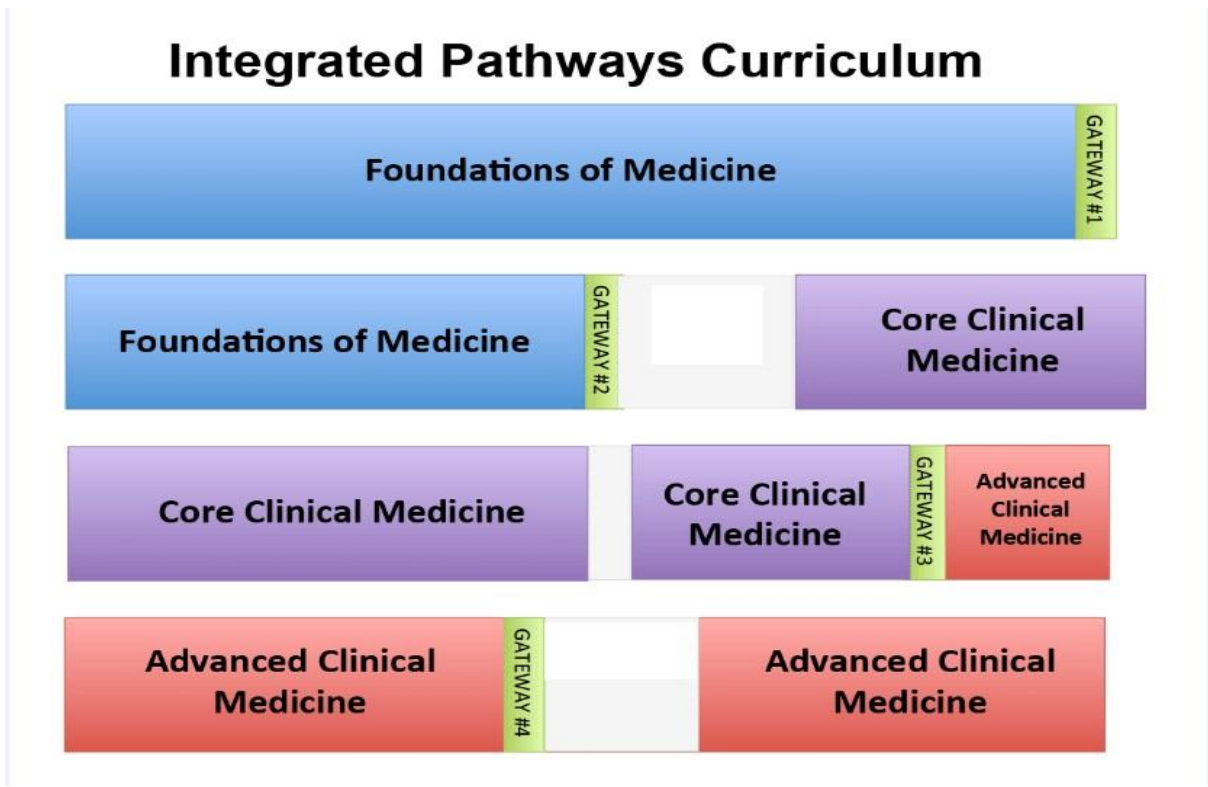
PHASE 1 (Year 1 & 2): Includes clinical lectures in medicine in integration with the basic sciences i.e anatomy, physiology, biochemistry and behavioural sciences.

PHASE 2 (Year 3 & 4): Includes preclinical sciences general pathology, community medicine, forensic medicine, behavioural sciences and clinical sciences of eye and ENT integrated with medicine, surgery, gynaecology and paediatrics .

PHASE 3 (Year 5) : Clerkship year includes medicine, surgery, gynecology and Paediatrics

5 Years Medicine Curricular Framework

SCHEME OF STUDIES



Curricular Map of MBBS



YEAR 1	Integrated science in a medical context 1
YEAR 2	Integrated science in a medical context 2
YEAR 3	Core clinical medicine in practice
YEAR 4	Medicine for all stages of life & in diverse settings
YEAR 5	Preparing for practice as a doctor

MBBS Program Outcomes

At the end of five years MBBS undergraduate program, the graduates should be able to:

1. Independently assess the patients, order relevant investigations and formulate a treatment plan.
2. Render treatments in the domain of general medicine to their patients in time efficient and quality-controlled manner.
3. Practice evidence-based medicine
4. Modify medical treatments according to patient's special needs, if any, in the form of medical conditions, physical or mental disabilities.
5. Assess and refer the patients with case difficulty indices requiring consultation or treatment by specialists.
6. Show empathy and respect in their attitude and behavior towards their patients.
7. Maintain high ethical and professional standards in their pursuit of clinical excellence.
8. Draw upon their existing knowledge and update it through continuing education programs.
9. Exercise infection control protocol guidelines laid out by their local health councils.
10. Exercise management qualities to maintain single or multiple unit private practices where applicable.
11. Work in a team of other health care professionals including doctors and paramedical staff.
12. Maintain patient records with emphasis on legal and patient confidentiality aspects.
13. Provide basic life support to patients requiring critical care in or outside medical set up.
14. Manage medical emergencies.
15. Demonstrate clear verbal and written communication skills.

PURPOSE OF GUIDE:

To facilitate undergraduate students to learn subject of Medicine in an effective manner, by enlightening them regards organization of the learning program, facilitates guides students in managing their studies through the academic year and guidance on assessments methods, exam rules and regulations.

TARGET AUDIENCE 3rd, 4th and 5th year MBBS students

DURATION OF FINAL YEAR SESSION: MARCH 2024 - NOVEMBER 2025

LEARNING OBJECTIVES

Equip the students with specific knowledge, essential skills and appropriate attitude towards the human body

- to become problem solvers, dealing effectively with familiar and unfamiliar problems
- to become lifelong learners
- to direct their own learning and evaluate this activity
- to be able to reason critically and make justifiable decisions regarding patient management
- to practice evidence-based medicine
- to always ensure patient safety
- to ensure compliance with the legal system as it impacts health care and the PM&DC regulations
- to adopt a multidisciplinary approach for health promoting interventions
- Medical graduates should be able to demonstrate professional values of self and professional accountability, honesty, probity, and ethics
- Medical and dental graduates are expected to demonstrate exemplary professional conduct
- to be able to understand the pathogenesis of specific diseases

LEARNING OBJECTIVES AND

OUTCOMES OF 4TH YR FIRST ROTATION (4 WEEKS)

OBJECTIVES:

- 1) History taking approach to symptom analysis.
- 2) Presentation skills.
- 3) Case presentation.
- 4) General physical examination.
- 5) History taking and discussion on respiratory disease.
- 6) Physical examination of respiratory system.
- 7) History taking and symptomatology related to CVS.
- 8) Examination of CVS.
- 9) Case presentation and constructing diagnosis.
- 10) Introduction to commonly used instruments in medicine.
- 11) Medical ethics.
- 12) History taking and symptomatology related to GIT.
- 13) Critical counselling.
- 14) History taking and symptomatology related to CNS.
- 15) Bedside manners.

OUTCOMES:

- 1) Confidence in clinical skills and competencies.
- 2) No difference in professional performance as doctors.
- 3) Achievement of communication skills.
- 4) Deliver effective and holistic care to patients.
- 5) Appreciation of multidisciplinary teams.

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Appreciation of multidisciplinary teams

Learning Objectives And Outcomes of Class Final Year MBBS

Learning Objectives	Expected Outcomes
Obtain a detailed pertinent history and carry out thorough examination (Elicit Positive Signs)	Ability to gather comprehensive patient histories and perform thorough physical examinations to identify key positive signs.

Interpretation of history and examination	Skill in analyzing collected data to make informed clinical assessments and diagnoses.
Plan appropriate investigations, know its interpretation and carry out management	Proficiency in selecting relevant diagnostic tests, interpreting results, and implementing appropriate management strategies.
Anticipate complications and know its management	Capability to foresee potential complications and develop effective management plans for those complications.
Maintain the follow-up of patients at required intervals.	Establishment of a systematic approach to patient follow-up, ensuring ongoing assessment and management of conditions.
Gain procedural skills in procedures like IV cannulation , blood sampling , passing Foley's , taking sample for ABG's etc	Competence in performing key medical procedures, ensuring patient safety and adherence to protocols.
Develop and enhance communication skills (both written and verbal)	Improved ability to communicate effectively with patients and colleagues, enhancing patient care and collaboration.
Build positive doctor-patient relationships	Strengthening rapport and trust with patients, leading to improved patient satisfaction and adherence to treatment.
Rotate through mandatory rotations	Exposure to diverse clinical settings, enhancing practical knowledge and experience across specialties.
Data collection and completion of dissertation	Completion of a research project that contributes to academic and professional development.
Maintain E-Log book entries and timely approval by supervisor	Consistent documentation of clinical experiences and timely feedback from supervisors to enhance learning.

DEPARTMENT OF MEDICINE FACULTY AND STAFF

	Professor& HOD	Muhammad Tahir	MBBS, FCPS
2	Professor	Muhammad Amir	MBBS, FCPS(Medicine),

			FCPS, Gastroenterology
3	Professor	Brig [®] Shahid	MBBS, FCPS
4	Professor	Sajjad Naseer Hashmi	MBBS, MD
5	Professor	Dr. Nadia	MBBS, FCPS,
	Associate Professor	Dr. Salman Munir	MBBS,FCPS
6	Associate Professor	Col [®] Dr. Farooq	MBBS,FCPS
7	Associate Professor	Dr. Mushtaq Shahid	MBBS, FCPS
8	Assistant Professor	Dr. Maaz	MBBS MRCP
9	Assistant Professor	Dr. Fahmeeda	MBBS, FCPS
10	SENIOR REGISTRAR	Dr. Sadaf Hammad	

			MBBS MRCP UK
11	Senior registrar	Dr. Naveed	MBBS FCPS
12	Senior registrar	Dr. Warda	MBBS FCPS
13	Senior registrar	Dr Maha	MBBS FCPS
14	Senior Registrar {Gastro}	Dr.Hinna	MBBS FCPS { Gastro}
15	Senior Registrar {Pulmo}	Dr.Hira	MBBS FCPS{pulmo}
16	Senior Registrar { Cardio}	Dr. Shahid	MBBS FCPS {cardio}
17	Senior Registrar{ Cardio}	Dr. Sakha	MBBS FCPS {cardio}

- 1.
- 2.

Introduction

Medicine is a broad based specialty dedicated to providing primary and specialized care to adults. Therefore, it forms a key component of the undergraduate curriculum and is taught throughout the five years with increased emphasis in last three years. Its primary focus is on building knowledge, skills and attitudes of the students for the practice of medicine not only at the primary care level but to advance to postgraduate studies for clinical practice, medical education and research.

Mission

Our mission is to prepare future doctors for independent practice after graduation as a general practitioner who can provide patient centered medical care with highest standards of professionalism

The objectives of the program

Final Year (2023)

The program objective is to establish a foundation for independent practice after graduation as a general practitioner and involves the principal aspects of health improvement, preventive medicine, and acute and chronic care in the domain of medical disorders. a) Knowledge

- 1) Acquisition of the knowledge and the ability to apply it in approach to the common complaints and symptoms in medical diseases.
- 2) Knowledge of common medical diseases and the ability to apply it to primary medical care of the patients within the limits of general practitioner's duties.
- 3) Acquisition of the knowledge of simple procedures in outpatient setting that the general practitioner must be able to do.

b) Skill

- 1) Ability to take clinical history and perform clinical examination in patients with medical disorders.
- 2) Ability to construct and execute a management plan for common medical diseases including emergencies.
- 3) Ability to do basic procedures required in the practice of medicine.
- 4) Ability to interpret results of common laboratory tests and imaging techniques in medicine.

3. Competencies

- a) Communication skills
- b) Critical thinking
- c) Problem solving
- d) Clinical skills
- e) Examination skills
- f) Procedural skills

4. Learning Outcome

At the end of final year, student will be able to:

- a) Diagnose common Medical problems, suggest and interpret appropriate investigation, rationalize treatment plan and if appropriate, refer patient for specialist opinion/ management.
- b) Suggest preventive measure for the common Public Health Problem in the community

- c) Perform relevant procedures.
- d) Convey relevant information and explanations accurately to patients, families, colleagues and other professionals.
- e) Understand medical ethics and its application pertaining to medicine and maintain the confidentiality of the patient.
- f) Adapt research findings appropriately to the individual patient situation or relevant patient population.

6. Teaching hours – Medicine

Sessions	YEARS	CONTACT HOURS
2018-2019	V	420
2019-2020	IV	95
2020-2021	III	130
2021-2022	II	30
2022-2023	I	30

7. Learning Strategies & Situations

A variety of pedagogies are used in this course, including didactic teaching, team-based and evidence-based learning in class rooms and patient side environment. Students are encouraged to adopt and inculcate self-learning strategies during the course.

8. Learning Opportunities

- a) Interactive lectures
- b) Teaching Ward Rounds
- c) Case presentations
- d) Case based Discussion
- e) Short cases in OPD
- f) Bedside Discussion
- g) Small Group Discussion
- h) Workshops
- i) Self-learning Activities
- j) Skill Lab Activity

9. Venues for learning opportunities

- a) Outpatient clinic
- b) Emergency room
- c) Inpatient ward
- d) Tutorial room
- e) Libraries including audio-visuals

10. Specific Learning Outcomes

Learning outcomes specific to the medicine course have been tabulated below in the table of specification and matched with educational strategies.

a. Implementation of curriculum

*The university will give details of all content including learning outcomes and table of specifications, distribution of which across the five years and rotations is upon the discretion of the medical college/institute.

b. Attendance & Discipline:

- a) A record of attendance of medical students, /test results, end of module/rotation test result, workshop marks should be updated regularly.
- b) Each Head of unit would keep a log of all clinical activities
- c) Attendance of each student would be endorsed in his logbook as well.
- d) Overall 75% attendance is mandatory to appear in final professional exam.

c. Assessment

Assessment is an important aspect of any training program which not only includes assessment of students but also of the training program itself. The performance of each student would be marked and counted towards final internal assessment. The following tools/ methods would be used for this purpose:

- a) Theory
 - 1) Periodical class tests
 - 2) End of block/Rotation Exams: At the end of each block/clinical rotation, a theory exam would be held concurrently for the entire class from the syllabus covered during this period.
- b) Practical
 - 1) Log Book: Each student would complete his log book and get it countersigned from HOD at the end of each rotation. Log book is maintained during the rotation.
 - 2) End of Rotation Exams: At the end of each clinical rotation, the whole group would have a clinical exam.
 - 3) 4x scheduled workshops including BLS/ACLS (only attendance is required to get marks).
- c) Internal assessment. There will be 10% internal assessment for session 2018-19
- d) Professional exam. Professional exam of Medicine will be held in final year. There will be 300 marks theory paper and 300 marks of practical. Student has to pass theory and practical separately with minimum 50 % marks. However, in clinical subjects, student should pass in clinical exams / OSCE (with 50% marks) and unobserved stations (with 50% marks) separately

**UHS SYLLABUS
FINAL YEAR MBBS**

(B) 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, antiplatelet 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:

- Infections and inflammatory lesions
 - ③ Meningitis
 - Bacterial.
 - Tuberculous.
 - Viral etc.
 - ③ Brain abscess
 - ③ Encephalitis
 - ③ Hydrocephalus ○ Epilepsy and other convulsive disorders ○
- Cerebrovascular diseases (stroke). • Ischemic
 - Embolism
 - Infarction
 - Haemorrhage
 - Intra-cerebral • Subarachnoid

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

- ③ Observe and learn lumbar puncture

5. ALIMENTARY SYSTEM

COURSE OUTLINES:

- Oral cavity
 - ③ Infections and inflammatory disorders
 - ③ Benign and malignant diseases ○ Esophagus.
 - ③ Dysphagia with special reference to
 - ③ Ca oesophagus
 - ③ GERD
 - ③ Achalasia
 - ③ Candidiasis of oral cavity and oesophagus ○ Stomach
 - ③ Gastritis.
 - ③ Peptic ulcer ○ Intestines ○ Malabsorption syndromes.
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- Ulcerative colitis

③ Crohn's

disease ○ Irritable bowel
syndrome (IBS).

- Liver ○ Ascites.
- Jaundice. ○ Congenital hyperbilirubinaemia ○ Gilbert syndrome ○ Dubin Johnson syndrome ○ Rotor syndromes ○ Haemolytic ○ Obstructive ○ Hepatitis ○ Viral, acute and chronic ○ Toxic ○ Drugs
- Auto immune hepatitis. ○ Cirrhosis of liver. ○ Hepatic encephalopathy. ○ Carcinoma liver and transplant. ○ Acute and chronic pancreatitis. ○ Upper GI bleeding, lower GI bleeding ○ 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, haematemesis, 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
 - ③ Infections of the kidneys
 - ③ Infections of the lower urinary tract
- Inflammatory lesions of the kidneys
- Introduction to dialysis & renal transplant
- Drugs causing renal disease (brief).
 - ③ Analgesic nephropathy.
 - ③ Lead, uric acid, hypercalcemia, radiation & hypersensitivity ③ Nephropathy.
 - ③ Drugs contra indicated in renal insufficiency ③ Drugs to be used with caution in renal disease.
- Polycystic kidneys.
- Renal vascular disorders
 - ③ Renal artery stenosis
 - ③ Renal vein thrombosis
 - ③ 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

OUTLINE

S: ○

Anterior
pituitary.

- ③ Growth hormone disorders ○ Acromegaly ○ Gigantism. ○ Short stature
- ③ Infertility ○ Diseases of hypothalamus and posterior pituitary.
- ③ Empty sella syndrome
- ③ Diabetes insipidus
- ③ Syndrome of inappropriate ADH secretion (SIADH).
- Thyroid gland.

- ③ Hyperthyroidism (thyrotoxicosis)
- ③ Hypothyroidism (myxedema, cretinism)
- ③ Inflammatory lesions
- ③ Benign and malignant tumors ○ Adrenal Gland.
- ③ Cushing Syndrome
- ③ Aldosteronism Primary/Secondary.
- ③ Hirsutism.
- ③ Addison's disease
- ③ Acute Addisonian crisis
- ③ Inflammatory lesions
- ③ Adrenocortical tumors including Pheochromocytoma ○

Endocrine Pancreas

- ③ Diabetes mellitus and hypoglycaemic states
- ③ Other associated endocrine disorders ○ Testes
- ③ Sexual precocity
- ③ Heterosexual precocity
- ③ Gynaecomastia
- ③ Inflammations
- ③ Tumours ○ Multiple endocrine neoplasia
- ③ Type I
- ③ 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:

- Osteoarthritis
- Osteoporosis
- Rheumatoid arthritis and related arthropathies
- Paget's disease of the bone.
- Osteopetrosis (marble bone disease).
- Multiple myeloma
- **Multi-System Immunological Diseases**
 - Systemic lupus erythematosus (SLE)
 - Serum sickness
 - Systemic sclerosis (scleroderma).
 - Mixed connective tissue diseases (brief).
 - Sjogren's syndrome (brief).
 - Ankylosing spondylitis.
 - Bechet's

syndrome (brief). ○ Vasculitis syndromes (brief).

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

- ③ Hyperlipidemia
- ③ Hemochromatosis
- ③ Porphyrias
- ③ Wilson's disease
- ③ Gout and hypercalcemia
- ③ Storage diseases.
 - ③ Lipid.
 - Leukodystrophies
 - Niemann pick disease.
 - Gaucher's disease. ③ Glycogen.
 - Fabry's disease.
- ③ Hereditary connective tissue disorders ③ Osteogenesis imperfecta.
- ③ Ehler's danlos syndrome.
- ③ Chondrodysplasias.
- ③ Marfan syndrome. ③ Alport syndrome.
- ③ Disorders of amino acid metabolism and storage ③ Homocystinuria.
- ③ Alkaptonuria.
- ③ Hartnup disease.
- ③ Renal glycosuria

10. INFECTIOUS DISEASES

COURSE OUTLINES:

- Clinical syndromes.
 - ③ Sepsis and septic shock, meningococcaemia
 - ③ Acute infectious diarrhoeal diseases and bacterial food poisoning.
 - ③ Hospital acquired infections.
- Common disease syndromes caused by the following bacteria and their drug therapy.
 - ③ Pneumococci
 - ③ Staphylococci.
 - ③ Streptococci.

- ③ Hemophilis influenzae.
- ③ Shigella.
- ③ Gonococci.
- ③ Pseudomonas. ○ Following diseases in detail.
- ③ Tetanus.
- ③ Enteric fever/salmonellosis.
- ③ Cholera.
- ③ Tuberculosis.
- ③ Leprosy.
- ③ Amoebiasis/giardiasis/trichomoniasis.
- ③ Malaria.
- ③ AIDS.
- ③ Rabies.
- ③ Infectious mononucleosis.
- Helminthic infestations
 - ③ Ascariasis
 - ③ Hookworm
 - ③ Whipworm (trichuriasis)
 - ③ Threadworm (entrobiasis)
 - ③ Taenia (tapeworm)
 - ③ 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:

- Fever ○ Headache, pain ○ Anorexia/ weight loss ○ Haemoptysis/ chest pain/ epigastric ○ Cough/expectoration/sputum
- Dysuria, pyuria ○ Diarrhoea / vomiting ○ Melena, hematemesis ○ Jaundice/hepatomegaly ○ Eruption and rashes ○ Itching ○ 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 ○ B-12 deficiency ○ Folic acid deficiency
- Anaemia of chronic disorder
- Haemolytic anaemia ○ Hereditary ○ Acquired ○ Intra-corporcular ○ 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

HBAR MEDICAL AND DENTAL COLLEGE

4TH year MBBS 2024-2025 Session w.e.f 04-03-

Day: Tuesday.

Timing: 09:00- 10:00am

Every 1st 3rd and 5th Friday

Timing: 10:00- 11:00am

INSTRUCTOR: BRIG, (R) Dr. MUHAMMAD TAHIR

S. NO	DATE	TOPIC	INSTRUCTOR
1	05-03-2024	Patient interaction mannerism/Ethics and Professionalism	Dr. Muhammad Tahir
2	12-03-2024	Dermatology	Associate prof Dr. Nadia
3	15-03-2024	Dermatology	Associate prof Dr. Nadia
4	19-03-2024	Dermatology	Associate prof Dr. Nadia
5	26-03-2024	Dermatology	Associate prof Dr. Nadia
6	29-03-2024	Dermatology	Associate prof Dr. Nadia
8	09-04-2024	ESSENTIAL HYPERTENSION	Associate prof Dr. Salman Munir
9	16-04-2024	RHEUMATIC FEVER	Associate prof Dr. Salman Munir
10	19-04-2024	MITRAL VALVE DISEASE	Associate prof Dr. Salman Munir
11	23-04-2024	AORTIC VALVE DISEASES	Associate prof Dr. Salman Munir
12	30-04-2024	INFECTIVE ENDOCARDITIS	Associate prof Dr. Salman Munir
13	03-05-2024	ECG	Associate prof Dr. Salman Munir
14	07-05-2024	ECG	Associate prof Dr. Salman Munir
15	14-05-2024	Radiology	Associate prof Dr. Asma
16	17-05-2024	Radiology	Associate prof Dr. Asma

17	21-05-2024	Radiology	Associate prof Dr. Asma
18	28-05-2024	Radiology	Associate prof Dr. Asma
19	31-05-2024	TYPE 1 & TYPE 11 RESPIRATORY FAILURE	Assistant Prof Dr. Maaz
20	04-06-2024	BRONCHIAL ASTHMA	Assistant Prof Dr. Maaz
21	07-06-2024	COAD	Assistant Prof Dr. Maaz
22	11-06-2024	PNEUMONIA (CAP)(HAP)	Assistant Prof Dr. Maaz
23	19-07-2024	ENVIRONMENTAL DISEASES & ILD	Assistant Prof Dr. Maaz
24	23-07-2024	ENTERIC FEVER	Dr. Muhammad Tahir
25	30-07-2024	MALARIA	Dr. Muhammad Tahir
26	02-08-2024	DENGUE FEVER	Dr. Muhammad Tahir
27	06-08-2024	HIV	Dr. Muhammad Tahir
28	13-08-2024	DYSPHAGIA & CA ESOPHAGUS	Dr. Muhammad Amir
29	16-08-2024	PUD	Dr. Muhammad Amir
30	20-08-2024	GERD & ACHALASIA	Dr. Muhammad Amir
31	27-08-2024	ACUTE DIARRHEA	Dr. Muhammad Amir
32	30-08-2024	CHRONIC DIARRHEA & MALABSORPTION	Dr. Muhammad Amir
33	03-09-2024	ACUTE & CHRONIC PANCREATITIS	Dr. Muhammad Amir
34	06-09-2024	CVA	Prof Dr. Sajjad Naseer Hashmi
35	10-09-2024	VIRAL AND BACTERIAL MENINGITIS	Prof Dr. Sajjad Naseer Hashmi
36	10-09-2024	DEMENTIA & ALZHEIMER'S DISEASES	Prof Dr. Sajjad Naseer Hashmi
37	17-09-2024	SEIZURES	Prof Dr. Sajjad Naseer Hashmi
38	20-09-2024	RHUMATOID ARTHRITIS	Associate.Prof Dr. Mushtaq
39	24-09-2024	GOUT	Associate.Prof Dr. Mushtaq
40	01-10-2024	SLE	Associate.Prof Dr. Mushtaq
41	04-10-2024	ARF	Dr. Muhammad Tahir
42	08-10-2024	CKD	Dr. Muhammad Tahir
43	15-10-2024	BLS	Assistant Prof Dr. Maaz
44	18-10-2024	DIABETES MELLITUS	Assistant Prof Dr. Fehmida
45	22-10-2024	DIABETES MELLITUS	Assistant Prof Dr. Fehmida
46	29-10-2024	DIABETES MELLITUS	Assistant Prof Dr. Fehmida
47	01-11-2024	DIABETES MELLITUS	Assistant Prof Dr. Fehmida
48	05-11-2024	THYROID DISEASE	Assistant Prof Dr. Fehmida
49	12-11-2024	HYPERTHYROIDISM	Assistant Prof Dr. Fehmida
50	15-11-2024	HYPOTHYROIDISM	Assistant Prof Dr. Fehmida
51	19-11-2024	ADDISON'S DISEASE	Assistant Prof Dr. Fehmida
52	26-11-2024	CUSHING'S DISEASE	Assistant Prof Dr. Fehmida
53	29-11-2024	DIABETES INSIPIDUS & SIADH	Assistant Prof Dr. Fehmida
54	03-12-2024	CLASSIFICATION OF ANEMIA	Dr. Muhammad Tahir
55	06-12-2024	IRON DEFICIENCY	Dr. Muhammad Tahir
56	10-12-2024	&MEGALOBlastic ANEMIA	Dr. Muhammad Tahir

On Friday there will be CPC.09 AM to 10 am

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 ORTHOPEDICS 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

DEPARTMENT OF MEDICINE & ALLIED

PLANNER 3rd YEAR MBBS TEACHING

PLANNER 3RD YEAR TEACHING REHBAR MEDICAL AND DENTAL 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,	Associate Prof Dr. Salman Munir
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.	Associate Prof Dr. Salman Munir

RESPIRATORY SYSTEM

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

NEUROLOGY AND CNS

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

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

ALIMENTARY SYSTEM

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

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	Prof. Dr. Tahir
22	Oliguria, hematuria, dysuria.	Students must be able to understand what is Oliguria, hematuria, dysuria and their causes.	Prof. Dr. Tahir
23	Urgency, Frequency of micturition.	Students must be able to understand what is Urgency, Frequency of micturition and their causes.	Prof. Dr. Tahir
24	Pyuria, Urinary retention	Students must be able to understand what is Pyuria, Urinary retention and their caus.	Prof. Dr. Tahir
25	Nocturia, urinary incontinence, pelvic pain.	Students must be able to understand what is Nocturia , urinary incontinence, pelvic pain and their causes.	Prof. Dr. Tahir

INFECTION DISEASES

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

		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. Farooq
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. Farooq
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. Farooq
34	Sexually transmitted diseases/ AIDS, Gonoria.	Students must be able to understand signs and symptoms of	Dr. Farooq

		Sexually transmitted diseases/ AIDS, Gonoria, its differential diagnosis and treatment and prevention.	
35	Tetanus. Rabies	Students must be able to understand signs and symptoms of Tetanus. Rabies, , its differential diagnosis and treatment and prevention.	Dr. Farooq
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. Farooq
37	Infectious Mononucleosis.	Students must be able to understand signs and symptoms of Infectious Mononucleosis, , its differential diagnosis and treatment and prevention.	Dr. Farooq
38	Worm infestation/ Hook worm / Ascariasis	Students must be able to understand signs and symptoms of Worm	Dr. Farooq

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

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.	Prof. Dr. Sajjad Naseer Hashmi
2	Investigations in GI. Disorders	Students must be able to understand different Investigations in GI. Disorders and their application in different diseases.	Prof. Dr. Sajjad Naseer Hashmi
3	Esophageal disorders	Students must be able to understand signs and symptoms of Esophageal disorders, its differential diagnosis and treatment and prevention	Prof. Dr. Sajjad Naseer Hashmi
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	Prof. Dr. Sajjad Naseer Hashmi
5	Malabsorption syndrome	Students must be able to understand signs and symptoms of Malabsorption syndrome, its	Prof. Dr. Sajjad Naseer Hashmi

		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	Prof. Dr. Sajjad Naseer Hashmi
7	IBS.	Students must be able to understand signs and symptoms IBS, its differential diagnosis and treatment and prevention	Prof. Dr. Sajjad Naseer Hashmi
8	Ascites	Students must be able to understand signs and symptoms Ascites its differential diagnosis and treatment and prevention	Prof. Dr. Sajjad Naseer Hashmi
9	Jaundice, types and classification.	Students must be able to understand causes of Jaundice, types and classification.	Prof. Dr. Sajjad Naseer Hashmi
10	Chronic hepatitis	Students must be able to understand signs and symptoms Chronic hepatitis, its differential diagnosis and treatment and prevention	Prof. Dr. Sajjad Naseer Hashmi
11	Cirrhosis of Liver	Students must be able to understand signs and symptoms Cirrhosis of Liver, its differential diagnosis and treatment and prevention	Prof. Dr. Sajjad Naseer Hashmi

12	Hepatic encephalopathy	Students must be able to understand signs and symptoms Hepatic encephalopathy, its differential diagnosis and treatment and prevention	Prof. Dr. Sajjad Naseer Hashmi
13	Liver Abscess.	Students must be able to understand signs and symptoms Liver Abscess., its differential diagnosis and treatment and prevention	Prof. Dr. Sajjad Naseer Hashmi
14	Ca liver and liver transplantation.	Students must be able to understand signs and symptoms Liver Abscess., its differential diagnosis and treatment.	Prof. Dr. Sajjad Naseer Hashmi
15	Acute/chronic pancreatitis.	Students must be able to understand signs and symptoms Acute/chronic pancreatitis. its differential diagnosis and treatment and prevention	Prof. Dr. Sajjad Naseer Hashmi
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	Prof. Dr. Sajjad Naseer Hashmi

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.	Prof. Dr. Tahir
18	Investigations in renal disease.	Students must be able to know different investigation in Renal Diseases and their significance to diagnose different renal diseases.	Prof. Dr. Tahir
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	Prof. Dr. Tahir
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	Prof. Dr. Tahir
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	Asst. Prof. Dr. Aleem Hashmi
22	Polycystic Kidneys	Students must be able to understand signs and symptoms Polycystic Kidneys its differential diagnosis and treatment.	Prof. Dr. Tahir
23	Acute / chronic renal failure	Students must be able to understand signs and symptoms Acute / chronic	Prof. Dr. Tahir

		renal failure its differential diagnosis and treatment and prevention	
24	Hemolytic uremic syndrome	Students must be able to understand signs and symptoms Hemolytic uremic syndrome its differential diagnosis and treatment and prevention	Prof. Dr. Tahir
25	Renal tubular acidosis.	Students must be able to understand signs and symptoms Renal tubular acidosis. its differential diagnosis and treatment and prevention	Prof. Dr. Tahir
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.	Prof. Dr. Tahir
27	Renal malignancy	Students must be able to understand signs and symptoms Renal malignancy. its differential diagnosis and treatment and prevention	Prof. Dr. Tahir
28	Introduction to dialysis/Renal transplant.	Students must be able to understand what is dialysis its types and indications of renal transplant.	Prof. Dr. Tahir

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.	Prof. Dr. Sajjad Naseer
30	Epilepsy	Students must be able to know causes of Epilepsy, its types diagnosis and treatment.	Prof. Dr. Sajjad Naseer
31	CVA/Ischemic/hemorrhagic/embolic strokes. Hemiplegia	Students must be able to know causes of CVA/Ischemic /hemorrhagic/embolic strokes. Hemiplegia diagnosis and treatment	Prof. Dr. Sajjad Naseer
32	Sub arachnoid hge Cavernus sinus thrombosis.	Students must be able to know causes of Sub arachnoid hge Cavernus sinus thrombosis. diagnosis and treatment	Prof. Dr. Sajjad Naseer Hashmi
33	Menigitis....Pyogenic, tubercular, others	Students must be able to know causes Menigitis....Pyogenic, tubercular, others diagnosis and treatment	Prof. Dr. Sajjad Naseer
34	Encephalitis, Brain abscess.	Students must be able to know causes of Encephalitis, Brain abscess. diagnosis and	Prof. Dr. Sajjad Naseer

		treatment	
35	Parkinson's disease and movement disorders.	Students must be able to know causes of Parkinson's disease and movement disorders. diagnosis and treatment	Prof. Dr. Sajjad Naseer Hashmi
36	Cerebeller disease.	Students must be able to know causes of Cerebeller disease. diagnosis and treatment	Prof. Dr. Sajjad Naseer Hashmi
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	Prof. Dr. Sajjad Naseer Hashmi
38	Multiple Sclerosis	Students must be able to know causes of Multiple Sclerosis diagnosis and treatment	Prof. Dr. Sajjad Naseer Hashmi
39	Dementia and Alsheimer's disease	Students must be able to know causes of Dementia and Alsheimer's disease, diagnosis and treatment	Prof. Dr. Sajjad Naseer Hashmi
40	Motor neuron disease.	Students must be able to know causes of Motor neuron disease. diagnosis and treatment	Prof. Dr. Sajjad Naseer Hashmi
41	Diseases of spinal cord, cord compression.	Students must be able to know causes of Diseases of spinal cord, cord compression. diagnosis and treatment	Prof. Dr. Sajjad Naseer Hashmi
42	Paraplegia, Quadruplegia	Students must be able to know causes of	Prof. Dr. Sajjad Naseer Hashmi

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

50	Myopathies, and muscular dystrophies,	Students must be able to know causes of Myopathies, and muscular dystrophies, . diagnosis and treatment	Prof. Dr. Sajjad Naseer Hashmi
51	Myasthenia gravis.	Students must be able to know causes of Myasthenia gravis. diagnosis and treatment	Prof. Dr. Sajjad Naseer Hashmi

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	Associate Prof. Dr. Salman
2	Investigations in CVS diseases	Students must be able to understand investigations of CVS & their interpretation to make the correct diagnose	Associate Prof. Dr. Salman
3	Valvular heart diseases	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Associate Prof. Dr. Salman
4	Rheumatic fever/infective endocarditic	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Associate Prof. Dr. Salman
5	heart diseases. Cyanotic and acynotic.	Students must be able to understand	Associate Prof. Dr. Salman

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

17	ETT.Thalliumscan. Holter, Angio	Students must be able to understand and investigations ETT.Thalliumscan. Holter, Angio	Associate Prof. Dr. Salman
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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.	Dr. Fahmeeda
19	Diseases of hypothalamus and pituitary	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Fahmeeda
20	Panhypopituitarim/Sheehan's syndrome	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Fahmeeda
21	Growth hormone disorders.Acromegaly, Gigantism	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Fahmeeda
22	Empty sella syndrome, Diabetes incipidus	Students must be able to understand etiology,	Dr. Fahmeeda

		pathogenesis, diagnosis and treatment of the disease	
23	SIADH, Hyperthyroidism, Graves's disease	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Fahmeeda
24	Hypothyroidism, Thyroid function tests	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Fahmeeda
25	Parathyroid diseases	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Fahmeeda
26	Cushing syndrome. Adrenal hyperplasia	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Fahmeeda
27	Addison's disease. Con's disease	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Fahmeeda
28	Pheochromocytome	Students must be able to understand etiology,	Dr. Fahmeeda

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

	diseases	pathogenesis, diagnosis and treatment of the disease	
39	Disorders of amino acid metabolism.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Fahmeeda
40	Homocystinuria, Alcaptonuria	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr.Tahir
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. Dr.Tahir
42	Anemias; classification, Iron deficiency	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr.Tahir
43	Megaloblastic, BI, Folic acid deficiency	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr.Tahir
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. Dr.Tahir
45	Thalassaemia, sickle cell anemia	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr.Tahir
46	Aplastic anemia	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr.Tahir
47	Leukemias, Acute and Chronic myeloid	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr.Tahir

	leukemia		
48	Lymphocytic leukemias	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof. Dr.Tahir

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

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.Maaz
54	Pulmonary function tests & investigations in resp, system	Students must be able to understand investigations of Respiratory & their interpretation to make the correct diagnose	Dr.Maaz

55	Bronchial asthma	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr.Maaz
56	Pneumonia	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr.Maaz
57	Bronchiectasis	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr.Maaz
58	COPD	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr.Maaz
59	Cystic Fibrosis	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr.Maaz
60	Pneumothorax. empyema	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr.Maaz
61	Interstitial lung disease/ lung diseases	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr.Maaz
62	Pulmonary thromboembolism/acute cor pulmonale	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr.Maaz
63	Pulmonary tuberculosis and pleural effusion ARDS/Acute respiratory	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr.Maaz.
64	Failure/Mechanical ventilation.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr.Maaz

65	CA. Lung.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr.Maaz
66	Multisystem, immunological diseases. SLE	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Associate Prof Mushtaq
67	RA	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Associate Prof Mushtaq
68	Systemic sclerosis, scleroderma	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Associate Prof Mushtaq
69	Mixed connective tissue disease, Sjogren syndrome	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Associate Prof Mushtaq
70	Ankylosing spondylitis	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Associate Prof Mushtaq
71	Bahcet syndrome, Vasculitic syndrome	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Associate Prof Mushtaq
72	Anaphylactoidpurpura, polyarthritisnodosa	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Associate Prof Mushtaq
73	Hypersensitivity vasculitis, Wegener	Students must be able to understand etiology,	Associate Prof Mushtaq

	granulomatosis Temporal arteritis. Takayasu arteritis	pathogenesis, diagnosis and treatment of the disease	
74	Sarcoidosis	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Dr. Maaz

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

84	Sexually transmitted diseases	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Nadia
85	Acne Vulgaris.	Students must be able to understand etiology,	Prof Dr. Nadia

		pathogenesis, diagnosis and treatment of the disease	
86	Disorders of pigmentation	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Nadia
87	Disorders of hair	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Nadia
88	Disorders of nails.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Nadia.
89	Disorders of abnormal keratinization	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Nadia
90	Bullous skin Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Nadia
91	Vasculitic Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Nadia
92	Skin cancer and Neavi	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Nadia
93	Drug Reactions	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Nadia
94	Introduction to psychiatry	Students must be able to understand etiology,	Prof Dr. Brig® Shahid

		pathogenesis, diagnosis and treatment of the disease	
95	Major Depressive episodes	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Brig® Shahid

96	Unipolar, Bipolar, Dysthymic, Atypical	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Brig® Shahid
97	Bipolar Affective Disorders.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Brig® Shahid
98	Panic Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Brig® Shahid
99	Generalized Anxiety Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Brig® Shahid
100	Post traumatic stress Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Brig® Shahid
101	Obsessive Compulsive Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Brig® Shahid
102	Phobic Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Brig® Shahid
103	Schizophrenia.	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Brig® Shahid
104	Substance abuse Addiction	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Brig® Shahid
105	Alcoholism	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Brig® Shahid
106	Psychosexual Disorders in men and women	Students must be able to understand etiology,	Prof Dr. Brig® Shahid

		pathogenesis, diagnosis and treatment of the disease
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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	Prof Dr. Tahir
108	Acute Kidney Injury, Acute Tubular Necrosis	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Tahir
109	Chronic Kidney Disease	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Tahir
110	Nephrotic Syndrome	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Tahir
111	Impotence	Students must be able to understand etiology,	Prof Dr. Tahir

		pathogenesis, diagnosis and treatment of the disease	
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DERMATOLOGY

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

	Bacterial)	pathogenesis, diagnosis and	
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		treatment of the disease	
117	Leprosy	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Nadia
118	Skin Infestations	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Nadia
119	Sexually Transmitted diseases	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Nadia
120	Acne Vulgaris	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Nadia
121	Disorders of pigmentation	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Nadia

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

		treatment of the disease	
127	Skin Cancer and Naevi	Students must be able to	Prof Dr. Nadia

		understand etiology, pathogenesis, diagnosis and treatment of the disease	
1 2 8	Drug Reactions	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Nadia

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. Shahid
130	Major Depressive Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Shahid
131	Unipolar, Bipolar,	Students must be able	Prof Dr. Shahid

	Dysthymic, Atypical	to understand	
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		etiology, pathogenesis, diagnosis and treatment of the disease	
13 2	Bipolar Affective Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Shahid
13 3	Panic Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Shahid
13 4	generalized anxiety Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Shahid
13 5	Post traumatic Stress Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Shahid

13 6	Obsessive Compulsive Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Shahid
13 7	phobic Disorders	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Shahid
13 8	Schizophrenia	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Shahid
13 9	Substance abuse Addiction	Students must be able to understand etiology, pathogenesis, diagnosis and treatment of the disease	Prof Dr. Shahid
14 0	Alcoholism	Students must be able to	Prof Dr. Shahid

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

