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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 CMH Lahore Medical College 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 indicates 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.

Mission Statement

To provide an excellent learning and teaching environment, inculcating ethical values and social responsibilities in undergraduate and postgraduate medical &dental students and nursing and allied health sciences students to enhance the level of comprehensive healthcare in the Army/Country

Vision Statement

The vision of National University of Medical Sciences is to improve the quality of life through education, research, innovation, and healthcare, thereby, contributing to endeavors to make Pakistan and this world better place to live in.

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 CMH LMC 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 and alignment between societies' needs, institutional needs, patient needs & student's needs.

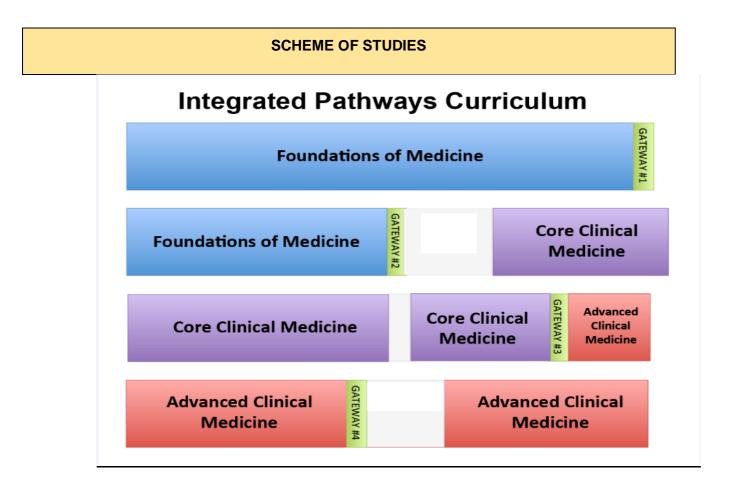
The curriculum implemented is a hybrid type of curriculum which has both horizontal and vertical integration. Spiral integration is introduced as an adjunct to horizontal and vertical integration. The curriculum spans over 3 phases

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, gynaecology and Paediatrics

5 Years Medicine Curricular Framework



Curricular Map of MBBS



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.

Undergraduate Competencies

CMH Lahore medical College envisions to produce graduates who are proficient in following competencies at the end of 5^{th} year

- Medical Expertise
- Communication Skills
- Critical thinking
- Management
- Scholar
- Professionalism
- Evidence based practice providing holistic care
- Empathetic
- Health advocate
- Providing Community service

Patient and Doctors Safety

While rotating through medical wards and outpatient departments' students will be educated for patient's safety and their own safety

- What patient safety is; no harm to patients as defined by WHO
- Understanding and learning from errors
- How to manage clinical risk; clinical risk management specifically is concerned with improving the quality and safety of health-care services by identifying the circumstances and opportunities that put patients at risk of harm and acting to prevent or control those risks
- Methods for quality improvement
- Engaging with patients and carers e.g. informed consent while examining patients or for performing any procedure, conveying truthful information, showing empathy etc
- Minimising infection through improved Infection control
- Reducing risks associated with Invasive procedures
- Improving medication safety
- Apply universal precautions
- Be immunized against Hepatitis B
- Use personal protection methods
- Know what to do if exposed
- Encourage others to use universal precautions
- Promoting adherence to hand hygiene guidelines
- Students will be taught to use protective equipment like gloves, aprons and face masks

Co-ordinator Final year MBBS Medicine Department 2020

Coordinator Name	Department	Extension
Prof. Rizwana Kitchlew	Medicine	470

Student representatives

Name	Designation
Insram-ul-Hassan	BR final Year MBBS
Roll No: 157	BR IIIIai Yeai Wibbs
Fatima Syed	GR final Year MBBS
Roll No: 33	OK IIIIai 1 eai Wibbo

Hours of Teaching

Contact Hours in the subject of Medicine &Allied

Class	Lectures	Clinical	CPC	Total Hrs
1 st Year MBBS	25	-	-	21
2 nd Year MBBS	27	-	-	23
3 rd Year MBBS	33	63	-	96
4 th Year MBBS	57+18+16	72+42+42	8	240
Final Year	127+ 16+17	234+42+42	8	459
MBBS				
Total		<u> </u>		840 Hrs

Introduction to Medicine

This study guide will help you to visit the most essential topics, system wise, in the subject of medicine. It will help to understand and appreciate each component of the course with its relation to other programs and your future life as a doctor. Thus chances of getting lost and missing important topics in the vast complex subject of medicine will be reduced .The guide is based on system based approach, which is the way curriculum is distributed for this course.

a) Resources

- a. Teaching resources
- b. Infrastructure resources

• <u>Teaching resources</u>

Medical Students rotate in all three Medical units and Cardiology Unit, where they are exposed to wide range of patients in the wards, OPD's and Emergency department. Teaching schedule includes interactive lectures and bedside clinical teaching. Emphasis is given to integrated medical teaching. It is mandatory for the medical students to attend the Medical Units in the evening. Intensive bedside teaching is done by the faculty members. Students are exposed to subspecialties like Gastroenterology, Hepatology, Cardiology Oncology, Pulmonology, Neurology ,Nephrology ,Rheumatology, Endocrinology, Psychiatry and Dermatology during their rotations.

Clinical pathological conferences **(CPCs)** are held on regular basis where the students prepare and present under the supervision of faculty members.

Students are assessed on UHS and NUMS format at the end of each rotation. Assessment includes OSPE's, short and long cases presentations and discussions. Midterm assessments and send up examinations are also conducted.

• Infrastructure resources

Sr. #.	Infrastructure Resources	Quantity
1	Lecture hall	1
2	OPD	

	General Medicine	07
	 Pulmonology 	02
	 Neurology 	03
	• Gl	04
	 Rheumatology 	01
	 Oncology 	03
	 Cardiology 	04
	Psychiatry	03
	 Dermatology 	06
3	General Medical Wards	4
5	Class Rooms (In the Hospital)	2
6	Mini Library	1

b) <u>TEACHING AND LEARNING STRATEGIES</u>

The teaching strategies are modified keeping in view the prevailing COVID 19 scenario. A hybrid system consisting of virtual teaching and on campus teaching for clinical sessions is planned as a backup if need arises.

Learning Management System (LMS) has been developed. Zoom service will be utilized for teaching sessions and webinars. Socrative App will be used for assessments.

Multiple educational methods will be used comprising of self-study, interactive lectures, group discussions, practical, and manual dexterity skill sessions.

- (i) Methods for achieving cognitive objectives
 - Interactive lectures using audio visual aids on power point presentation
 - Group discussions in form of large group and small group
 - Collaborative learning
 - Self-study and reading from learning resources

- (ii) Methods for achieving psychomotor objectives
 - Tutorials and videos
 - Clinical demonstrations provided by teaching faculty on models and patients
 - Supervised practice on patients
- (iii) Methods for achieving affective objectives
 - Interaction with peers, group members, teachers, support staff etc.Leading into 360° evaluation
 - Group discussions (small and large)
 - Role Modelling

c) **LEARNING METHODOLOGIES**

The following teaching /learning methods are used to promote better understanding:

- Interactive lectures
- Small group discussions case based or problem based
- Practical
- Skill sessions
- Self-directed learning
- Assignments
- Oral presentations by students

d) Course Outline

1. Course Title: CARDIOLOGY

a. Teaching Hours: Duration of Lecture Practical

b. Number of lectures:

c. Course Duration: 5th year

- d. Aims and Objectives of the program
- (i).Rationale

Important clinical implications as common life threatening emergencies related to the system.

(ii).Learning Outcome.

To identify the CVS diseases on basis of history, clinical examination & investigations & plan & initiate relevant management.

e. Topics

- 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.
- · Corpulmonale.
- Congenital heart diseases .
- · Cyanotic/ acyanotic heart diseases.
- Fallot's tetralogy
- Atrial septal defect
- Ventricular septal defect
- Patent ductus arteriosus
- Cardiomyopathies
- Pericardial diseases.
- Constrictive pericarditis
- Pericardial effusion
- Atherosclerosis/arteriosclerosis.
- Hypertension.
- · Peripheral vascular disease.
- · Acute & chronic ischaemia of the leg
- Aneurysms
- Buerger's disease
- Raynaud's disease
- variocose veins
- Venous thrombosis

e. Knowledge about subject

f. Skills - The clinical examination methods.

Procedures: CVP & ETT placement, ECG ,ETT ,Echocardiography, Defibrillator use, Pacemaker placement ,Thallium Scan, Cardiac catheterization & Angiography.

g. Attitude: towards clinical state of patient e.g judged by Consent for examination & tests. Empathy and Respect for Privacy, Autonomy & confidentiality of patient. Element of Humanity, Ethics & Justice

h. Counseling: Regarding diagnosis, Management, prognosis, prevention & follow up

i.TOS formation.

- LEVEL OF LEARNING
- **Level 3-** (Expected to be attained in final year MBBS).
- Able to take a focused symptoms based & systemic history performs relevant general & systemic clinical examination, pick & interpret clinical findings, aware of relevant investigations and management principles.
- Observer status (O)
- Assistant status

 (A)
- Perform under supervision (PS)
- Perform independently (PI)
 - LEARNING OUTCOMES
 - History taking
 - Physical examination
 - Practical procedures
 - Awareness regarding relevant investigations & management principles
 - Develop good communication skills as a health care professional

LEARNING OUTCOMES

Should be able to take relevant history		
Regarding diseases of CVS as listed above	<u>PI</u>	

SHOULD BE ABLE TO PERFORM EXAMINATION & PROCEDURES

Should be able to perform		
CVS examination	<u>PI</u>	
Systemic &relevant general physical		
CVP placement	<u>A</u>	
ETT placement	<u>A</u>	
ECG	<u>A</u>	
Exercise Treadmill Test	<u>O</u>	
Pacemaker placement	0	
Defibrillator use	<u>PS</u>	
Thallium Scan	<u>O</u>	
Cardiac catheterization		

Angiography		

_Should be able to diagnose and initiate management plan

Regarding diseases of CVS as listed above

Mode of Information transfer & assessment tools for competencies:

PI

Learning outcome	Mode of information transfer	Assessment tool
History taking	Bedside clinical teaching ,Long cases & Short cases	Case presentation & discussion/ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Physical examination	Bedside clinical teaching/ Videos	Demonstration of physical examination skills under supervision/ ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Awareness Regarding relevant investigations & management principles	Bedside clinical teaching/Lectures/Group discussion/Tutorials	Case presentation & discussion/ongoing assessment by teachers (to be documented in ward card) ward test, Class tests MCQ,SAQ,LEQ
Practical procedures	Videos/practical demonstration/practice on manikins	Ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Communication Skills	Bedside clinical teaching/Group discussions/Tutorials	Ongoing assessment by teachers/Bedside/TOACS

2. Course Title: Endocrinology & Metabolic Disorders

a. Teaching Hours: Duration of Lecture Practical

b.Number of lectures: c.Course Duration: 5th year

d.Aims and Objectives of the program

(i).Rationale

Important clinical implications as high prevalence & incidence of diseases related to this system

(ii).Learning Outcome.

To identify the diseases on basis of history, clinical examination & investigations & plan& initiate relevant management.

e.Topics:

Anterior pituitary.

- o Growth hormone disorders
- Acromegaly
- o Gigantism.
- Short stature
- Infertility
- <u>Diseases of hypothalamus and posterior pituitary.</u>
 - o Empty sella syndrome
 - o Diabetes insipidus
 - Syndrome of inappropriate ADH secretion (SIADH).
- Thyroid gland.
 - Hyperthyroidism (thyrotoxicosis)
 - o Hypothyroidism (myxedema, cretinism)
 - Inflammatory lesions
 - Benign and malignant tumors
- Adrenal Gland.
 - o Cushing Syndrome
 - o Aldosteronism Primary/Secondary.
 - o Hirsutism.
 - o Addison's disease
 - Acute Addisonian crisis
 - o Inflammatory lesions
 - o Adrenocortical tumors including Pheochromocytoma
- Endocrine Pancreas
 - o Diabetes mellitus and hypoglycaemic states
- Other associated endocrine disorders
 - Sexual precocity
 - Heterosexual precocity
 - Gynaecomastia
- Multiple endocrine neoplasia
 - Type I
 - o Type II
- Hyperlipidemia
- Hemochromatosis
- Porphyrias
- Wilson's disease
- Gout and hypercalcemia

- Storage diseases.
- Lipid.
 - Leukodystrophies
 - Niemann pick disease.
 - Gaucher's disease.
- Glycogen.
 - o Fabry's disease.
- Hereditary connective tissue disorders
 - Osteogenesisimperfecta.
 - o Ehler'sdanlos syndrome.
 - o Chondrodysplasias.
 - o Marfan syndrome.
 - o Alport syndrome.
- Disorders of amino acid metabolism and storage
 - o Homocystinuria.
 - o Alkaptonuria.
 - Hartnup disease.
- Renal glycosuria

f. Knowledge about subject

g. Skills - the clinical examination methods.

BP recording

Glucometer use

Insulin injection technique

h. Attitude: towards clinical state of patient judged by Consent for examination &tests, Empathy and Respect for Privacy, Autonomy &confidentiality of patient, Element of Humanity, Ethics & Justice **i.Counseling** regarding Diagnosis, Management, prognosis, prevention & follow up.

j. TOS formation.

LEARNING OUTCOMES

Should be able to take relevant history		
Regarding diseases as listed above	<u>PI</u>	

SHOULD BE ABLE TO PERFORM EXAMINATION & PROCEDURES

Should be able to perform		
Systemic &relevant general physical	<u>PI</u>	
Examination		
BP recording	<u>PI</u>	
Glucometer Use	<u>PI</u>	
Insulin Injection Technique	<u>PI</u>	

should be able to diagnose and initiate management plan		
Regarding diseases as listed above	<u>PI</u>	

Mode of Information transfer & assessment tools for competencies:

Learning outcome	Mode of information transfer	Assessment tool	
History taking	Bedside clinical teaching, Long cases, Short cases	Case presentation & discussion/ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)	
Physical examination	Bedside clinical teaching/ Videos	Demonstration of physical examination skills under supervision/ ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)	
Awareness Regarding relevant investigations & management principles	Bedside clinical teaching/Lectures/Group discussion/Tutorials		
Practical procedures	Videos/practical demonstration/practice on manikins	Ongoing assessment by teachers (to be documented in ward card) ward test (format as	

		per competency based learning curriculum)		
Communication Skills	Bedside teaching/Group discussions/Tuto	Ongoing teachers/Be	assessment edside/TOACS	by

3. Course Title: Pulmonology

a. Teaching Hours: Duration of Lecture Practical

b. Number of lectures:

c.Course Duration: 5th year

d.Aims and Objectives of the program

(i).Rationale

Important clinical implications as common life threatening emergencies related to the system

(ii).Learning Outcome.

To identify the Respiratory diseases on basis of history, clinical examination & investigations & plan& initiate relevant management.

e.Topics

- 1.Acute Pneumonias
- 2. Chronic Pneumonias/Bronchiectasis
- 3. Tuberculosis
- 4.Asthma
- 5.COPD
- 6.ILD/Pneumoconiosis
- 7. Respiratory Failure/Oxygen therapy
- 8. Pleural Diseases
- 9. Sarcoidosis
- 10.Pneumothorax
- 11.Lung Cancer
- 12.Sepsis, D.I.C/Multiorgan Failure/Ventilation

f. Knowledge about subject

g. Skills - the clinical examination methods.

Peak Flow meter use

Nebulization

Pleural tap

Pleural biopsy

Pulmonary Function Tests/Spirometry

Bronchoscopy

How to initiate O2 therapy

Endotracheal suction

Under water seal aspiration

h. Attitude: towards clinical state of patient judged by Consent for examination & tests , Empathy and Respect for Privacy, Autonomy & confidentiality of patient , Element of Humanity ,Ethics & Justice **i. Counseling:** regarding Diagnosis , Management ,prognosis,prevention & follow up.

j.TOS formation.

LEVEL OF LEARNING

•	Observer status	(O ₎
•	Assistant status	(A)
•	Perform under supervision	(PS)
•	Perform independently	(PI)

LEARNING OUTCOMES

Should be able to take relevant history		
Regarding Diseases of Respiratory system	<u>PI</u>	
As listed above		

SHOULD BE ABLE TO PERFORM EXAMINATION & PROCEDURES

Should be able to perform	
Respiratory system examination	<u>PI</u>
Systemic &relevant General physical	
Peak Flow Meter	<u>PI</u>
<u>Nebulization</u>	<u>PS</u>
Pleural Tap	<u>A</u>
Pleural Biopsy	<u>O</u>
How to initiate O2 therapy	<u>PS</u>
Endotracheal suction	<u>PS</u>
Under water seal aspiration	<u>O</u>

Pulmonary Function Tests/Spirometry	<u>PS</u>	
Bronchoscopy	0	

Should be able to diagnose and initiate management plan		
Regarding Diseases of Respiratory system		
As listed above	<u>PI</u>	

Mode of Information transfer & assessment tools for competencies:

Learning outcome	Mode of information transfer	Assessment tool
History taking	Bedside clinical teaching,Long cases,Short cases	Case presentation & discussion/ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Physical examination	Bedside clinical teaching/ Videos	Demonstration of physical examination skills under supervision/ ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Awareness Regarding relevant investigations & management principles	Bedside clinical teaching/Lectures/Group discussion/Tutorials	Case presentation & discussion/ongoing assessment by teachers (to be documented in ward card) ward test,Class tests MCQ,SAQ,LEQ
Practical procedures	Videos/practical demonstration/practice on manikins	Ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Communication Skills	Bedside clinical teaching/Group discussions/Tutorials	Ongoing assessment by teachers/Bedside/TOACS

4. Course Title: Nephrology

a.Teaching Hours: Duration of Lecture Practical

b.Number of lectures: c.Course Duration: 5th year

d.Aims and Objectives of the program

(i).Rationale

Important clinical implications as high prevalence & incidence of diseases related to this system

(ii).Learning Outcome.

To identify the Renal diseases on basis of history, clinical examination & investigations & plan& initiate relevant management.

e.Topics

- 1.Acute renal failure.
- 2.Chronic renal failure
- 3. Nephrotic syndrome.
- 4. Nephritic syndrome.

5. Urinary tract infections

- Infections of the kidneys
- Infections of the lower urinary tract
- 6.Inflammatory lesions of the kidneys
- 7.Introduction to dialysis & renal transplant

8. Drugs causing renal disease (brief).

- o Analgesic nephropathy.
- o Lead, uric acid, hypercalcemia, radiation & hypersensitivityNephropathy.
- o Drugs contra indicated in renal insufficiency
- Drugs to be used with caution in renal disease.
- 9. Polycystic kidneys.

10.Renal vascular disorders

- Renal artery stenosis
- o Renal vein thrombosis
- 11.Tumours
- 12. Hemolytic uremic syndrome.
- 13. Prostatic diseases
- 14. Disorders of Acid Base Balance
- 15. Sodium & Potassium Imbalance

f. Knowledge about subject

g. Skills - the clinical examination methods.

Urinary Catheter Placement

Introduction to Haemodialysis & Peritoneal dialysis ,Renal Biopsy

h. Attitude towards clinical state of patient judged by Consent for examination &tests, Empathy and Respect for Privacy, Autonomy & confidentiality of patient, Element of Humanity, Ethics & Justice **i.Counseling** regarding diagnosis, Management, prognosis, prevention & follow up.

j.TOS formation

LEVEL OF LEARNING

•	Observer status	(O)
•	Assistant status	(A)
•	Perform under supervision	(PS)
•	Perform independently	(PI)

LEARNING OUTCOMES

Should be able to take relevant history		
Regarding Renal diseases as listed		
<u>above</u>	<u>PI</u>	

SHOULD BE ABLE TO PERFORM EXAMINATION & PROCEDURES

Should be able to perform		
Relevant Systemic & General	<u>PI</u>	
Physical examination		
Peritoneal Dialysis	<u>A</u>	
<u>Haemodialysis</u>	0	
Renal Biopsy	<u>O</u>	

Should be able to diagnose and initiate management plan		
Regarding Renal diseases	<u>PI</u>	

Mode of Information transfer & assessment tools for competencies:

Learning outcome	Mode of information transfer	Assessment tool
History taking	Bedside clinical teaching,Long cases,Short cases	Case presentation & discussion/ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Physical examination	Bedside clinical teaching/ Videos	Demonstration of physical examination skills under supervision/ ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Awareness Regarding relevant investigations & management principles	Bedside clinical teaching/Lectures/Group discussion/Tutorials	Case presentation & discussion/ongoing assessment by teachers (to be documented in ward card) ward test,Class tests MCQ,SAQ,LEQ
Practical procedures	Videos/practical demonstration/practice on manikins	Ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Communication Skills	Bedside clinical teaching/Group discussions/Tutorials	Ongoing assessment by teachers/Bedside/TOACS

5.Course Title: GASTROENTROLOGY

a.Teaching Hours: Duration of Lecture Practical

b.Number of lectures: c.Course Duration: 5th year

d.Aims and Objectives of the program

(i).Rationale

Important clinical implications as high prevalence & incidence of diseases related to this system (ii).Learning Outcome.

To identify the Gastrointestinal diseases & complications on basis of history, clinical examination & investigations then plan& initiate relevant management.

e.Topics:

1.Oral cavity

- o Infections and inflammatory disorders
- o Benign and malignant diseases

2.Esophagus.

- o Dysphagia with special reference to
- Caoesophagus
- o GERD
- Achalasia
- Candiasis of oral cavity and oesophagus

3.Stomach

- o Gastritis.
- o Peptic ulcer

4.Intestines

- Malabsorption syndromes.
- o Tropical sprue
- o Coeliac disease
- Inflammatory bowel diseases.
 - Ulcerative colitis
 - Crohn's disease
- o Irritable bowel syndrome (IBS).

5.Liver

6.Ascites.

7.Jaundice.

- Congenital hyperbilirubinaemia
- Gilbert syndrome
- Dubin Johnson syndrome
- Rotor syndromes
- Haemolytic
- Obstructive

8.Hepatitis

- Viral, acute and chronic
- o Toxic
- Drugs
- Auto immune hepatitis.
- 9. Cirrhosis of liver.
- 10. Hepatic encephalopathy.
- 11. Carcinoma liver and transplant.
- 12. Acute and chronic pancreatitis.
- 13. Upper GI bleeding, lower GI bleeding
- 14. Drugs contraindicated in liver diseases

f. Knowledge about subject

g. Skills - The clinical examination methods.

Nasogastric tube placement Sangstaken Tube placement, Ascetic tap Introduction to Endoscopy ,Colonoscopy ,ERCP ,Liver Biopsy

h. Attitude towards clinical state of patient judged by Consent for examination &tests, Empathy and Respect for Privacy, Autonomy&confidentiality of patient, Element of Humanity,Ethics & Justice **i.Counseling** regarding diagnosis, Management, prognosis, prevention & follow up. **j.TOS formation.**

LEVEL OF LEARNING

•	Observer status	(O)
•	Assistant status	(A)
•	Perform under supervision	(PS)
•	Perform independently	(PI)

LEARNING OUTCOMES

Should be able to take relevant history		
Regarding Gastrointestinal Diseases	<u>PI</u>	
As listed above		

SHOULD BE ABLE TO PERFORM EXAMINATION & PROCEDURES

Should be able to perform	
GIT Systemic & Relevant General Physical Examination	<u>PI</u>
Nasogastric tube placement	<u>A</u>
Sangstaken Tube placement	<u>O</u>
Ascetic tap	<u>A</u>
Endoscopy ,Colonoscopy, ERCP	<u>O</u>
<u>Liver Biopsy</u>	<u>O</u>

Should be able to diagnose and initiate management plan		
Regarding Gastrointestinal Diseases		
As listed above	<u>PI</u>	

Mode of Information transfer & assessment tools for competencies:

Learning outcome	Mode of information transfer	Assessment tool
History taking	Bedside clinical teaching,Long cases,Short cases	Case presentation & discussion/ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Physical examination	Bedside clinical teaching/ Videos	Demonstration of physical examination skills under supervision/ ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Awareness Regarding relevant investigations & management principles	Bedside clinical teaching/Lectures/Group discussion/Tutorials	Case presentation & discussion/ongoing assessment by teachers (to be documented in ward card) ward test, Class tests MCQ,SAQ,LEQ
Practical procedures	Videos/practical demonstration/practice on manikins	Ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Communication Skills	Bedside clinical teaching/Group discussions/Tutorials	Ongoing assessment by teachers/Bedside/TOACS

6.Course Title: NEUROLOGY

a.Teaching Hours: Duration of Lecture Practical

b.Number of lectures: c.Course Duration: 5th year

d.Aims and Objectives of the program

(i).Rationale

Important clinical implications as high prevalence & incidence of diseases related to this system (ii).Learning Outcome.

To identify the Neurological disorders on basis of history, clinical examination & investigations & plan& initiate relevant management.

e.Topics

1.Meningitis

- o Bacterial.
- o Tuberculous.
- Viral etc.
- 2.Brain abscess
- 3. Encephalitis
- 4. Hydrocephalus
- 5. Epilepsy and other convulsive disorders
- 6.Cerebrovascular diseases (stroke).

Infarction

- o Ischemic
- o Embolism

Haemorrhage

- o Intra-cerebral
- Subarachnoid
- 7. Dementia and Alzheimer's disease.
- 8. Parkinson's disease and other movement disorders.
- 9.Motor neuron disease.
- 10. Multiple sclerosis.
- 11.Cranial nerve disorders.
- 12. Transient mono-ocular blindness
 - (amaurosisfugax).
- 13. Trigeminal neuralgia.
- 14. Facial palsy (Bell's).
- 15. Vertigo, nystagmus
- 16. Spinal cord disorders.
 - Spinal cord compression
 - o Hemiplegia, paraplegia, quadriplegia
 - o Myelitis.
 - Spondylosis.
 - Syringomyelia and syringobulbia.

17.Peripheral nerve disorders.

- Peripheral polyneuropathy
- Gullian Barrie syndrome
- o Mononeuritis multiplex.
- 18. Space occupying lesions of brain and spinal cord.
- 19. Muscular dystrophies

20. Myopathies, myasthenia gravis

- f. Knowledge about subject
- g. Skills the clinical examination methods.

Lumbar puncture Introduction to EEG, NCS, EMG, Sleep Study

h. Attitude towards clinical state of patient judged by Consent for examination &tests, Empathy and Respect for Privacy, Autonomy & confidentiality of patient, Element of Humanity, Ethics & Justice **i.Counseling** regarding diagnosis, Management, prognosis, prevention & follow up.

j.TOS formation. <u>LEVEL OF LEARNING</u>

•	Observer status	(O)
•	Assistant status	(A)
•	Perform under supervision	(PS)
•	Perform independently	(PI)

LEARNING OUTCOMES

Should be able to take relevant history		
Regarding Diseases of CNS	<u>PI</u>	
As listed above		

SHOULD BE ABLE TO PERFORM EXAMINATION & PROCEDURES

Should be able to perform		
CNS Examination Systemic	<u>PI</u>	
& Relevant General Physical		
Lumbar puncture	<u>A</u>	
EEG	<u>O</u>	
NCS,EMG	<u>O</u>	
Sleep Study	<u>o</u>	

Interpretation of related radiological investigations | PS

Should be able to diagnose and initiate management plan

Regarding Diseases of CNS as listed above PI

Mode of Information transfer & assessment tools for competencies:

Learning outcome	Mode of information transfer	Assessment tool
History taking	Bedside clinical teaching,Long cases,Short cases	Case presentation & discussion/ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Physical examination	Bedside clinical teaching/ Videos	Demonstration of physical examination skills under supervision/ ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Awareness Regarding relevant investigations & management principles	Bedside clinical teaching/Lectures/Group discussion/Tutorials	Case presentation & discussion/ongoing assessment by teachers (to be documented in ward card) ward test,Class tests MCQ,SAQ,LEQ
Practical procedures	Videos/practical demonstration/practice on manikins	Ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Communication Skills	Bedside clinical teaching/Group discussions/Tutorials	Ongoing assessment by teachers/Bedside/TOACS

7. Course Title: RHEUMATOLOGY

a.Teaching Hours: Duration of Lecture Practical

b.Number of lectures:

c.Course Duration: 5th year

d.Aims and Objectives of the program

(i).Rationale

Important clinical implications as significant prevalence & incidence of joints related disorders.

(ii).Learning Outcome

To identify the Rheumatological diseases & complications on basis of history, clinical examination & investigations & plan& initiate relevant management.

e.Topics

- Osteoarthritis
- Osteoporosis
- Rheumatoid arthiritis and related arthropathies
- Paget's disease of the bone.
- Osteopetrosis (marble bone disease).
- Multi-System Immunological Diseases
- Systemic lupus erythematosis (SLE)
- Serum sickness
- Systemic sclerosis (scleroderma).
- Mixed connective tissue diseases
- Sjogren's syndrome
- Ankylosing spondylitis.
- Bechet's syndrome
- · Vasculitis syndromes .
- Anaphylactoid purpura
- Polyarteritis nodosa
- Hpersensitivity vasculitis
- Wegner's granulomatosis
- Temporal arteritis
- Takayasu's arteritis
- Thromboangitis obliterans (Burger's disease)
- Sarcoidosis

f. Knowledge about subject

g. Skills - the clinical examination methods.

Joint Aspiration, Intra articular injection technique

h. Attitude towards clinical state of patient judged by Consent for examination &tests, Empathy and Respect for Privacy, Autonomy &confidentiality of patient, Element of Humanity, Ethics & Justice **i. Counseling** regarding diagnosis, Management, prognosis, prevention & follow up.

j.TOS formation.

LEVEL OF LEARNING

- Observer status (O)
- Assistant status (A)
- Perform under supervision (PS)

• Perform independently

(PI)

LEARNING OUTCOMES

Should be able to take relevant history		
Regarding diseases of Locomotor	<u>PI</u>	
System as listed above		

SHOULD BE ABLE TO PERFORM EXAMINATION & PROCEDURES

Should be able to perform		
Locomotor system examination &		
Relevant General Physical Examination	<u>PI</u>	
Joint Aspiration	<u>O</u>	
Intra articular injection technique	0	

Should be able to diagnose and initiate managemen	nt pla	n
Regarding diseases of Locomotor system		
As listed above	<u>PI</u>	

Mode of Information transfer & assessment tools for competencies:

Learning outcome	Mode of information transfer	Assessment tool
History taking	Bedside clinical teaching,Long cases,Short cases	Case presentation & discussion/ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Physical examination	Bedside clinical teaching/ Videos	Demonstration of physical examination skills under supervision/ ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)

Awareness Regarding	Bedside clinical	Case presentation &
relevant investigations &	teaching/Lectures/Group	discussion/ongoing
management principles	discussion/Tutorials	assessment by teachers (to be
		documented in ward card)
		ward test,Class tests
		MCQ,SAQ,LEQ
Practical procedures	Videos/practical	Ongoing assessment by
	demonstration/practice on	teachers (to be documented in
	manikins	ward card) ward test (format as
		per competency based
		learning curriculum)
Communication Skills	Bedside clinical	Ongoing assessment by
	teaching/Group	teachers/Bedside/TOACS
	discussions/Tutorials	

8.Course Title: INFECTIOUS DISEASES

a. **Teaching Hours:** Duration of Lecture Practical

b. Number of lectures:c. Course Duration: 5th year

d. Aims and Objectives of the program

(i).Rationale

Important clinical implications as significant prevalence & incidence of these diseases. Special emphasis on the infections common in Pakistan.

(ii).Learning Outcome.

To identify the various Infectious diseases & complications on basis of history, clinical examination & investigations & plan & initiate relevant management & Prevention Scheme.

e.Topics:

Clinical syndromes.

- Sepsis and septic shock, meningococcaemia
- Acute infectious diarrhoeal diseases and bacterial foodpoisoning.
- Hospital acquired infections.
- Common disease syndromes caused by the following bacteria and their drug therapy.
- Pneumococci
- Staphylococci.
- Streptococci.
- Hemophilisinfluenzae.
- Shigella.
- Gonococci.
- Pseudomonas.

- Following diseases in detail.
- Tetanus.
- Enteric fever/salmonellosis.
- Cholera.
- Tuberculosis.
- Leprosy.
- Amoebiasis/giardiasis/trichomoniasis.
- Malaria.
- AIDS.
- Rabies.
- Infectious mononucleosis.
- Helminthic infestations
 - Ascariasis
 - Hookworm
 - Whipworm (trichuriasis)
 - Threadworm (entrobiasis)
 - Taenia (tapeworm)
 - Hydatid diseases

f. Knowledge about subject

g. Skills – the relevant clinical examination methods.

Procedures: Injection I/V, I/M, S/C, intradermal

Urinary catheterisation – collection of samples

Collection of blood samples/ blood film preparation

h. Attitude: towards clinical state of patient judged by Consent for examination & tests, Empathy and Respect for Privacy, Autonomy &confidentiality of patient, Element of Humanity, Ethics & Justice i. Counseling regarding diagnosis, Management, prognosis, Prevention & follow up.

j.TOS formation.

LEVEL OF LEARNING

•	Observer status	(O)
•	Assistant status	(A)

Perform under supervision (PS)

Perform independently (PI)

LEARNING OUTCOMES

Should be able to take relevant history

Regarding Infectious diseases
as listed above

SHOULD BE ABLE TO PERFORM EXAMINATION & PROCEDURES

Should be able to perform	
Relevant General & Systemic Physical Examination	<u>PI</u>
Injection I/V, I/M, S/C, intradermal	<u>PI</u>
Urinary catheterisation – collection of samples	<u>PS</u>
Collection of blood samples/ blood film preparation	<u>PS</u>
Branula	<u>PI</u>
CVP	<u>A</u>
Aspiration of fluids (Pleural, Pericardial, Peritoneal, Knee)Lumbar Puncture	<u>O</u>

Should be able to diagnose and initiate management plan		
Regarding Infectious diseases		
As listed above	PI	

Mode of Information transfer & assessment tools for competencies:

Learning outcome	Mode of information transfer	Assessment tool
History taking	Bedside clinical teaching, Long cases, Short cases	Case presentation & discussion/ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Physical examination	Bedside clinical teaching/ Videos	Demonstration of physical examination skills under supervision/ ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Awareness Regarding relevant investigations &	Bedside clinical teaching/Lectures/Group	Case presentation & discussion/ongoing

management principles	discussion/Tutorials	assessment by teachers (to be documented in ward card) ward test,Class tests MCQ,SAQ,LEQ
Practical procedures	Videos/practical demonstration/practice on manikins	Ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Communication Skills	Bedside clinical teaching/Group discussions/Tutorials	Ongoing assessment by teachers/Bedside/TOACS

9. Course Title: HAEMATOLOGY

a.Teaching Hours: Duration of Lecture Practical

b.Number of lectures: c.Course Duration: 5th year

d.Aims and Objectives of the program

(i).Rationale

Important clinical implications of diseases related to this system

(ii).Learning Outcome.

To identify the Haematological disorders on basis of history, clinical examination & investigations & plan& initiate relevant management.

e.Topics

- Anaemias.
- Classification
- Iron deficiency
- Megaloblastic
 - o B-12 deficiency
 - Folic acid deficiency
- Anaemia of chronic disorder
- Haemolyticanaemia
 - Hereditary
 - Acquired
 - Intra-corpuscular
 - Extra-corpuscular
- · Aplastic anemia
- Haemoglobinopathies.
 - Sickle cell syndromes

- Thalassaemias
- Myeloproliferative diseases.
 - Chronic myeloid leukemia (CML)
 - o Polycythemia vera
 - Myelofibrosis
 - Essential thrombocytosis
- Leukemias.
 - Acute
 - o Chronic
- Lymphomos
 - o 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.
 - o Haemophilia
 - Vitamin K deficiency.
 - Disseminated intravascular coagulation (DIC).
- Anticoagulants Therapy
 - Heparin
 - Oral (warfarin etc.)
 - o Vit. K infusion
- Antiplatelet drugs

f. Knowledge about subject

g. Skills - the clinical examination methods.

Injection I/V, I/M, S/C, intradermal

Collection of samples of blood/blood film preparation

Placement of I/V lines/fluids/blood/blood products, direct branula,

CVP line placement,

Observe bone marrow aspiration/ trephine

h. Attitude towards clinical state of patient judged by Consent for examination &tests, Empathy and Respect for Privacy, Autonomy &confidentiality of patient, Element of Humanity, Ethics & Justice **i.Counseling** regarding diagnosis, Management, prognosis, prevention & follow up.

j.TOS formation.

LEARNING OUTCOMES

Should be able to take relevant history		
Regarding diseases as listed above	<u>PI</u>	

SHOULD BE ABLE TO PERFORM EXAMINATION & PROCEDURES

Should be able to perform	
Systemic &relevant general physical	<u>PI</u>
Examination	
Injection I/V, I/M, S/C, intradermal	<u>PI</u>
Collection of samples of blood/blood film preparation	<u>PS</u>
Placing I/V lines/fluids/blood/blood products, direct branula	<u>A</u>
CVP line placement	<u>O</u>
Bone marrow aspiration/ trephine	<u>O</u>

should be able to diagnose and initiate manageme	nt pla	เท
Regarding diseases as listed above	<u>PI</u>	

Mode of Information transfer & assessment tools for competencies:

Learning outcome	Mode of information transfer		Assessment tool	
History taking	Bedside	clinical	Case	presentation &
	teaching,Long		discussi	on/ongoing assessment

	cases,Short cases	by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Physical examination	Bedside clinical teaching/ Videos	Demonstration of physical examination skills under supervision/ ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Awareness Regarding	Bedside clinical	Case presentation &
relevant investigations &	teaching/Lectures/Group	discussion/ongoing assessment
management principles	discussion/Tutorials	by teachers (to be documented in ward card) ward test,Class tests MCQ,SAQ,LEQ
Practical procedures	Videos/practical demonstration/practice on manikins	Ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Communication Skills	Bedside clinical teaching/Group discussions/Tutorials	Ongoing assessment by teachers/Bedside/TOACS

10.Course Title: DERMATOLOGY

a. Teaching Hours: Duration of Lecture Practical

b. Number of lectures:c. Course Duration: 5th year

d. Aims and Objectives of the program

(i).Rationale

Important clinical implications as significant prevalence & incidence of these diseases . Special emphasis on the diseases common in Pakistan.

(ii).Learning Outcome.

To identify the various Skin Disorders & complications on basis of history, clinical examination & investigations & plan & initiate relevant management.

e.Topics:

- 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.

Identifying 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
- Moluscumcontagiosum
- Acne vulgaris
- Seborhoea
- Exfoliative dermatitis
- Skin neoplasm like squamous cell cacinoma, basal cellcarcinoma and melanoma
- Leukoderma
- Pityriasisversicolor
- Alopecia and hirsutism
- Sexually transmitted diseases
- Furnculosis, cellulitis
- Drug eruption

f. Knowledge about subject

g. Skills - the clinical examination methods, to identify lesions specific to various skin diseases

Scraping for fungus

Use of magnifying glass

Skin biopsy

Use of Wood's lamp

h. Attitude towards clinical state of patient judged by Consent for examination &tests, Empathy and Respect for Privacy, Autonomy &confidentiality of patient, Element of Humanity, Ethics & Justice **i.Counseling** regarding diagnosis, Management, prognosis, prevention & follow up.

j.TOS formation.

LEARNING OUTCOMES

Should be able to take relevant history		
Regarding diseases as listed above	<u>PI</u>	

SHOULD BE ABLE TO PERFORM EXAMINATION & PROCEDURES

Should be able to perform	
Systemic &relevant general physical	<u>PI</u>
Examination to identify specific skin lesions	
Use of magnifying glass	<u>PI</u>
Scraping for fungus	<u>PS</u>
Skin biopsy	<u>O</u>
Use of Wood's lamp	<u>PS</u>

should be able to diagnose and initiate manageme	nt pla	เท
Regarding diseases as listed above	<u>PI</u>	

Mode of Information transfer & assessment tools for competencies:

Learning outcome	Mode of information transfer	Assessment tool
History taking	Bedside clinical teaching,Long cases,Short cases	Case presentation & discussion/ongoing assessment by teachers (to be documented in ward card) ward test (format as per competency based learning curriculum)
Physical examination	Bedside clinical teaching/ Videos	Demonstration of physical examination skills under supervision/ ongoing assessment by teachers (to be documented in ward card) ward

			test (format as per competency		ency
			based le	arning curriculum)	
Awareness Regard	ding Bedside	clinical	Case	presentation	&
relevant investigation	ns & teaching/l	Lectures/Group	roup discussion/ongoing assessment		ment
management princip	es discussion	n/Tutorials	by teachers (to be documented		
			in ward	card) ward test,C	Class
			tests		
			MCQ,SA	Q,LEQ	

11. Course Title: PSYCHIATRY

a.Teaching Hours: Duration of Lecture Practical

b.Number of lectures:

c.Course Duration: 5th year

d.Aims and Objectives of the program

(i).Rationale

Important clinical and social implications as high prevalence & incidence of diseases related to this system

(ii).Learning Outcome

To identify the Psychiatric Ailments on basis of history, Mental state and clinical examination, investigations then plan & initiate relevant management.

e.Topics

- · Mood disorders.
- Major depressive episodes
- Unipolar
- Bipolar
- Dysthymic
- Atypical
 - Maniac episodes
- Anxiety disorders.
 - Acute anxiety states
 - Panic disorders
- Generalized anxiety disorders
- Post Trauma somatic disorders
- Obsessive-compulsive disorders
- Phobic disorders
- · Schizophrenia.
- · Alcoholism.
- Addiction.

Eating Disorders

• Psychosexual disorders in men and women.

Dementia

f. Knowledge about subject

g. Skills – the mental state examination

Counseling and psychoanalysis especially in patients with suicidal and homicidal attitude.

Procedures:

- ${\bf \cdot} Psychotherapy; CBT, Behavioral the rapy, Interpersonal/family the rapy$
- Electroconvulsive Therapy (ECT)
- Electroencephalogram (EEG)
- **h. Attitude** towards clinical state of patient judged by Consent for examination & tests , Empathy and Respect for Privacy, Autonomy &confidentiality of patient , Element of Humanity ,Ethics & Justice
- i.Counseling regarding diagnosis, Management & follow up.

j.TOS formation.

LEARNING OUTCOMES

Should be able to take relevant history	
Regarding diseases as listed above	<u>PI</u>

SHOULD BE ABLE TO PERFORM EXAMINATION & PROCEDURES

Should be able to perform	
Systemic &relevant general physical	<u>PI</u>
Examination to identify mental state	
Psychotherapy;CBT,Behavioraltherapy,Interpersonal/familytherapy	<u>o</u>
<u>ECT</u>	<u>o</u>
EEG	<u>o</u>
Counseling and psychoanalysis especially in patients with suicidal and homicidal attitudes	<u>O</u>

should be able to diagnose and initiate management pla		
Regarding diseases as listed above	<u>PI</u>	

Mode of Information transfer & assessment tools for competencies:

Learning	Mode of	Assessment tool
outcome	information	
	transfer	
History taking	Bedside clinical	Case presentation &
	teaching, Long cases,	discussion/ongoing assessment by
	Short cases	teachers and documented in ward
		card) ward test (format as per
		competency based learning
		curriculum)
Mental state	Bedside, clinical	Demonstration of physical
examination	teaching/ Videos	examination skills under supervision/
		ongoing assessment by teachers (to
		be documented in ward card) ward
		test (format as per competency
		based learning curriculum)
Awareness Regarding	Bedside clinical	Case presentation &
relevant investigations &	teaching/Lectures/Group	discussion/ongoing assessment by
management principles	discussion/Tutorials	teachers (to be documented in ward
		card) ward test, Class tests
		MCQ,SAQ,LEQ
Communication Skills	Bedside teaching, Role	OSCE,360° evaluation
	modelling	

12. MISCELLANEOUS Topics

- Heat stroke
- Snake bite

- Electric shock
- Poisoning etc.

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 3_{rd} , 4_{th} & 5_{th} year.

Visit the hospital ward and take history. Review the laboratory investigations of these patients to find links among certain findings and their clinical picture.

Write down your own reflection on the above results in relation to the clinical findings of these patients in the following table:

Patient ID#	Major findings		Self reflection	Teachers comment	
10#	History	Clinical	Labs		
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					

Department of Medicine, CMH Lahore Medical College

<u>List of Lectures in Medicine for Final Year MBBS 2021-22</u>

Days/Timings: Tuesdays (<u>08:50-09:40</u>) Thursdays: <u>(08:00-08:50 and 08:50-09:40</u>)

Fridays: (08:00-08:50) Venue: Lecture Hall-F

Sr. No	Date/Time	Topic	Instructor
1	16-11-2021 (08:50-09:40)	ECG-I	Col. Jahanzab Ali
2	18-11-2021 (08:00-08:50)	ECG-II	Col. Jahanzab Ali
3	18-11-2021 (08:50-09:40)	Evaluation of a Jaundiced Patient	Dr. Hala Mansoor
4	19-11-2021 (08:00-08:50)	IHD-I	Col. Ayaz Ahmed
5	23-11-2021 (08:50-09:40)	IHD-II	Col. Ayaz Ahmed
6	25-11-2021 (08:00-08:50)	Acute Hepatitis-I	Prof. Muhammad Siddique
7	25-11-2021 (08:50-09:40)	hypertension	Prof. Rizwana Kitchlew
8	26-11-2021 (08:00-08:50)	Acute Hepatitis-II	Prof. Muhammad Siddique
9	30-11-2021 (08:50-09:40)	Mitral valve disease	Dr. Javed Iqbal
10	02-12-2021 (08:00-08:50)	Aortic valve disease	Dr. Javed Iqbal
11	02-12-2021 (08:50-09:40)	Chronic Hepatitis-I	Prof. Muhammad Siddique
12	03-12-2021 (08:00-08:50)	Chronic Hepatitis-II	Prof. Muhammad Siddique
13	07-12-2021 (08:50-09:40)	Heart failure	Col. Ayaz Ahmed
14	09-12-2021 (08:00-08:50)	Pericarditis	Dr. Ahmed Usman
15	09-12-2021 (08:50-09:40)	Myocarditis and Cardiomyopathy	Col. Jahanzab Ali
16	10-12-2021 (08:00-08:50)	Infective endocarditis	Maj. Gen. Farhan Tuyyab
17	14-12-2021 (08:50-09:40)	Dyslipidemia	Brig. M. Faheem ur Rehman Khan
18	16-12-2021 (08:00-08:50)	Upper GI Bleed-I	Prof. Muhammad Siddique
19	16-12-2021 (08:50-09:40)	Heart blocks	Dr. Ahmed Usman
20	17-12-2021 (08:00-08:50)	Upper GI Bleed-II	Prof. Muhammad Siddique
21	21-12-2021 (08:50-09:40)	Atrial and Ventricular arrhythmias	Col. Ayaz Ahmed

22	23-12-2021 (08:00-08:50)	Heart disease in pregnancy and	Col. Jahanzab Ali
		surgery	
23	23-12-2021 (08:50-09:40)	Shock (Classification and	Brig. M. Faheem ur Rehman Khan
		Management)	
	Winter Vacatio	ns 24 December 2021 to 0	2 January, 2022
24	04-01-2022 (08:50-09:40)	Dysphagia & Odynophagia	Prof. Muhammad Siddique
25	06-01-2022 (08:00-08:50)	Autoimmune Hepatitis (AIH+PBC+PSC)	Dr. Hala Mansoor
		,	2 () ()
26	06-01-2022 (08:50-09:40)	Complications of Cirrhosis Ascites+SBP+HRS	Prof. Muhammad Siddique
27	07-01-2022 (08:00-08:50)	Fulminant Hepatic Failure/Hepatic Encephalopathy	Prof. Muhammad Siddique
28	11-01-2022(08:50-09:40)	HCC+ Liver Transplant	Dr. Hala Mansoor
29	13-01-2022 (08:00-08:50)	Liver Disease in Pregnancy	Dr. Hala Mansoor
30	13-01-2022 (08:50-09:40)	Liver Abcess	Prof. Muhammad Siddique
31	14-01-2022 (08:00-08:50)	Metabolic syndrome including NAFLD and Obesity	Prof. Muhammad Siddique
32	18-01-2022 (08:50-09:40)	Wilson disease/Hemochromatosis	Prof. Muhammad Siddique
33	20-01-2022 (08:00-08:50)	GERD	Dr. Hala Mansoor
34	20-01-2022 (08:50-09:40)	Achalasia /DES	Prof. Muhammad Siddique
35	21-01-2022 (08:00-08:50)	Peptic Ulcer	Dr. Hala Mansoor
36	25-01-2022 (08:50-09:40)	Inflammatory Bowel Disease-I	Prof. Muhammad Siddique
37	27-01-2022 (08:00-08:50)	Inflammatory Bowel disease-II	Prof. Muhammad Siddique
38	27-01-2022 (08:50-09:40)	Acute Diarrhea	Col. Rafi Ud Din
39	28-01-2022 (08:00-08:50)	Chronic Diarrhea/Malabsorption/Celiac disease	Dr. Hala Mansoor

40	01-02-2022 (08:50-09:40)	Acute Pancreatitis	Prof. Muhammad Siddique
41	03-02-2022 (08:00-08:50)	Chronic Pancreatitis	Dr. Hala Mansoor
42	03-02-2022 (08:50-09:40)	Lower GI Bleed	Prof. Muhammad Siddique
43	04-02-2022 (08:00-08:50)	Infectious Esophagitis/ Pill Esophagitis Corrosive injury	Prof. Muhammad Siddique
44	08-02-2022 (08:50-09:40)	Pneumonia	Brig. Muhammad Khalid Azam
45	10-02-2022 (08:00-08:50)	Pleural Effusions	Dr. Javed Iqbal
46	10-02-2022 (08:50-09:40)	Bronchial Asthma	Brig. Muhammad Khalid Azam
47	11-02-2022 (08:00-08:50)	COPD	Dr. Javed Iqbal
48	15-02-2022 (08:50-09:40)	Pulmonary Hypertension	Brig. Muhammad Khalid Azam
49	17-02-2022 (08:00-08:50)	ILD/DPLD	Brig. Muhammad Khalid Azam
50	17-02-2022 (08:50-09:40)	Tuberculosis	Dr. Javed Iqbal
51	18-02-2022 (08:00-08:50)	Respiratory Failure/ARDS	Prof. Rizwana Kitchlew
52	22-02-2022 (08:50-09:40)	CA Lung	Brig. Muhammad Khalid Azam
53	24-02-2022 (08:00-08:50)	DVT+ Pulmonary embolism	Prof. Rizwana Kitchlew
54	24-02-2022 (08:50-09:40)	Sarcoidosis	Dr. Javed Iqbal
55	25-02-2022 (08:00-08:50)	Lung abcess	Brig. Muhammad Khalid Azam
56	01-03-2022 (08:50-09:40)	Dengue Fever	Prof. Rizwana Kithchlew
57	03-03-2022 (08:00-08:50)	Malaria	Dr. Hala Mansoor
58	03-03-2022 (08:50-09:40)	Enteric Fever	Maj. Gen. Karamat Hussain Shah Bukari HI (M)
59	04-03-2022 (08:00-08:50)	Brucelosis/Infectious Mononucleosis	Maj. Gen. Karamat Hussain Shah Bukari HI (M)
Sports Week (Tentatively) 07 March 2022 to 13 March 2022			

60	15-03-2022 (08:50-09:40)	LIN	Brig. M. Faheem ur Rehman Khan
	10 00 2022 (00:00 00:40)	HIV	Big. W. Fallcoll at Rollman Rhan
61	17-03-2022 (08:00-08:50)	Guide to Immunization in Adults	Dr. Saba Saif
62	17-03-2022 (08:50-09:40)	Sexually transmitted diseases	Prof. Muhammad Siddique
63	18-03-2022 (08:00-08:50)	Amebiasis/Giardiasis	Prof. Rizwana Kitchlew
	Midterm	Exam 21 March 2022 to 27 M	Tarch 2022
	N	Medicine Paper 22 March 20	022
64	29-03-2022 (08:50-09:40)	Toxoplasmosis/cryptococcal infection	Brig. M. Faheem ur Rehman Khan
65	31-03-2022 (08:00-08:50)	Headache/Migraine	Prof. Rizwana Kitchlew
66	31-03-2022 (08:50-09:40)	Epilepsy	Dr. Saba Saif
67	01-04-2022 (08:00-08:50)	Parkinsonism	Prof. Rizwana Kitchlew
68	05-04-2022 (08:50-09:40)	Multiple Sclerosis	Prof. Rizwana Kitchlew
69	07-04-2022 (08:00-08:50)	Cerebellar Disease	Lt. Col. Muhammad Ali Yousaf
70	07-04-2022 (08:50-09:40)	CVA-I (Thrombotic and Embolic)	Dr. Hala Mansoor
71	08-04-2022 (08:00-08:50)	CVA-II (Hemorrhagic including SAH)	Brig. Dr. Javed Iqbal (R)
72	12-04-2022 (08:50-09:40)	Encephalitis/Amebic meningoencephalitis	Lt. Col. Muhammad Ali Yousaf
73	14-04-2022 (08:00-08:50)	Brain abscess and SOL	Lt. Col. Muhammad Ali Yousaf
74	14-04-2022 (08:50-09:40)	Dementia	Prof. Rizwana Kitchlew
75	15-04-2022 (08:00-08:50)	Neuropathies	Prof. Rizwana Kitchlew
76	19-04-2022 (08:50-09:40)	Motor Neuron Disease	Lt. Col. Muhammad Ali Yousaf
77	21-04-2022 (08:00-08:50)	Meningitis(classification,presentation and management)	Dr. Hala Mansoor
78	21-04-2022 (08:50-09:40)	GB syndrome/ Bells palsy	Brig. Dr. Javed Iqbal (R)

79	22-04-2022 (08:00-08:50)	Myopathies	Dr. Saba Saif
80	26-04-2022 (08:50-09:40)	Acute Kidney injury	Col. Zahid Farooq Baig
81	28-04-2022 (08:00-08:50)	Assessment of renal disease	Dr. Samina Fida
82	28-04-2022 (08:50-09:40)	Glomerulo nephritis	Col. Zahid Farooq Baig
83	29-04-2022 (08:00-08:50)	Nephrotic Syndrome	Col. Zahid Farooq Baig
	Eid u	Il Fitar (Tentatively) 03-05 Ma	y 2022
84	06-05-2022 (08:00-08:50)	Renal infections including TB	Dr. Samina Fida
85	10-05-2022 (08:50-09:40)	Chronic Kidney Disease	Col. Zahid Farooq Baig
86	12-05-2022 (08:00-08:50)	Renal Replacement/transplant	Col. Zahid Farooq Baig
87	12-05-2022 (08:50-09:40)	Acid Base-I	Dr. Samina Fida
88	13-05-2022 (08:00-08:50)	Acid Base-II	Dr. Samina Fida
89	17-05-2022 (08:50-09:40)	RTA and Tubulointerstitial Disease	Col. Zahid Farooq Baig
90	19-05-2022 (08:00-08:50)	Electrolyte imbalance-I	Col. Zahid Farooq Baig
91	19-05-2022 (08:50-09:40)	Acute Leukemia-I	Col. Faisal Mehmood
92	20-05-2022 (08:00-08:50)	Electrolyte imbalance-II	Col. Zahid Farooq Baig
93	24-05-2022 (08:50-09:40)	CML	Col. Faisal Mehmood
94	26-05-2022 (08:00-08:50)	CLL	Col. Faisal Mehmood
95	26-05-2022 (08:50-09:40)	Myelofibrosis and MDS	Dr. Javed Iqbal
96	27-05-2022 (08:00-08:50)	Lymphomas / Non Hodgkins	Col. Faisal Mehmood
97	31-05-2022 (08:50-09:40)	Aplastic anemia	Dr. Javed Iqbal
98	02-06-2022 (08:00-08:50)	Multiple Myeloma	Prof. Muhammad Siddique
99	02-06-2022 (08:50-09:40)	ITP	Prof. Rizwana Kitchlew

100	03-06-2022 (08:00-08:50)	Clotting disorders(Hemophilia Von	Dr. Javed Iqbal
		Willibrand disorder)	
101	07-06-2022 (08:50-09:40)	Blood Products principles of	Brig. M. Faheem ur Rehman Khan
		replacements and adverse reactions	
102	09-06-2022 (08:00-08:50)	Hemolytic uremic syndrome, TTP and DIC	Dr. Hala Mansoor
103	09-06-2022 (08:50-09:40)	Polycythemia	Brig. M. Faheem ur Rehman Khan
104	10-06-2022 (08:00-08:50)	Diabetes Mellitus-I	Maj. Gen. Karamat Hussain Shah Bukhari
105	14-06-2022 (08:50-09:40)	Diabetes Mellitus-II Treatment non	Maj. Gen. Karamat Hussain Shah
		pharmacologic and pharmacologic	Bukhari
106	16-06-2022 (08:00-08:50)	Complications of Diabetes	Dr. Javed Iqbal
		(microvascular ¯ovascular)	
107	16-06-2022 (08:50-09:40)	Diabetes mellitus complications	Prof. Rizwana Kitchlew
		(Hyperglycemic Hyperosmolar state	
		HHS) &Diabetic Ketoacidosis)	
108	17-06-2022 (08:00-08:50)	Hypothyriodism	Dr. Javed Iqbal
	Summer Va	acations 18 June 2022 to	17 July 2022
109	19-07-2022 (08:50-09:40)	Hyperthyroidism	Prof. Rizwana Kitchlew
110	21-07-2022 (08:00-08:50)	Addison's disease	Dr. Javed Iqbal
111	21-07-2022 (08:50-09:40)	Parathyroid Disease	Dr. Saba Saif
112	22-07-2022 (08:00-08:50)	Cushing disease	Prof. Muhammad Siddique
113	26-07-2022 (08:50-09:40)	Pheochromocytoma	Brig. M. Faheem ur Rehman Khan
114	28-07-2022 (08:00-08:50)	MEN	Brig. M. Faheem ur Rehman Khan
115	28-07-2022 (08:50-09:40)	Diseases of pituitary glands	Dr. Samina Fida
116	29-07-2022 (08:00-08:50)	Myasthenia gravis	Dr. Hala Mansoor
	ı.	1	1

117	02-08-2022 (08:50-09:40)	SLE	Dr. Saba Saif		
118	04-08-2022 (08:00-08:50)	RA	Prof. Rizwana Kitchlew		
119	04-08-2022 (08:50-09:40)	Systemic Sclerosis	Dr. Saba Saif		
120	05-08-2022 (08:00-08:50)	GOUT/Pseodogout	Dr. Saba Saif		
	Ashu	rah (Tentatively) 08-09 A	ug 2022		
121	11-08-2022 (08:00-08:50)	Seronegative Arthritis/Ankylosing spondylitis	Dr. Saba Saif		
122	11-08-2022 (08:50-09:40)	Vasculitis-Wegeners, Churg strauss	Prof. Rizwana Kitchlew		
123	12-08-2022 (08:00-08:50)	Osteoporosis/Osteomalacia	Dr. Saba Saif		
124	16-08-2022 (08:50-09:40)	PMR/polymyositis	Dr. Saba Saif		
125	18-08-2022 (08:00-08:50)	Nuclear Medicine	Lt. Col. Umer –I- Farooq		
126	18-08-2022 (08:50-09:40)	Nuclear Medicine(Cardiac and Pulmonary)	Lt. Col. Umer –I- Farooq		
127	19-08-2022 (08:00-08:50)	Nuclear Medicine (GI and Liver)	Lt. Col. Umer –I- Farooq		
	Prep Leave for	Pre-Annual Exam 20 Aug 20	22 to 01 Sep 2022		
	Pre-Annual Exam / OSPE 02 Sep 2022 to 19 Sep 2022				
	Medicine Paper (Written) 02 Sep 2022				
	OSPE 14 15 16 19 Sep 2022				
	Prep Leave for Prof Exam 20 Sep to 09 Oct 2022				
	NUMS Annual Exam Date 10 Oct 2022 onward				

Prof.

Dr. Muhammad Siddique Head Department of Medicine

CMH Lahore Medical College

The Lecture should start with a Clinical Scenario followed by Interactive Session.

Prof. Dr. Muhammad Siddique Head Department of Medicine

3.DEPARTMENT OF MEDICINE, CMH LAHORE MEDICAL COLLEGE AMENDED-CLINICAL TEACHING SCHEDULE FOR FINAL YEAR MBBS 2021-22 (MORNING) (w.e.f 10 Jan, 2022)

Days	Time	Topics	Medical-I	Medical-II
	11:00 to 12:30	Problem based learning	Prof. Rizwana Kitchlew	Col. Rafi Ud Din
		Case Discussion	(0301-8438002)	(0333-4099057)
	12:30 to 02:00	Problem based learning	Prof. Muhammad Siddique	Lt Col. Usman Ali
Monday		Clinical methods/	(0321-8422933)	(0333-5258209)
		Drugs/Instruments/Xray		
	02:00 to 03:00	Self-Learning, Preparation	n of the case for next day	
	11:00 to 12:30	Problem based learning	Lt. Col. Muhammad Ali	Col. Faisal Mehmood
		Case Discussion	Yousaf	(0330-4091155)
Tuesday			(0321-5562666)	
	12:30 to 02:00	Problem based learning	Maj. Gen. Karamat Hussain	Brig. Muhammad
		Clinical methods/	Shah Bukhari HI (M)	Khalid Azam
		Drugs/Instruments/Xray		(0333-5147758)
	02:00 to 03:00	Self-Learning, Preparation	of the case for next day	
	11:00 to 12:30	Problem based learning	Prof. Rizwana Kitchlew	Lt. Col. M. Adnan
		Case Discussion	(0301-8438002)	Manzar
Wednesday				(0345-5109608)
	12:30 to 02:00	Problem based learning	Prof. Muhammad Siddique	Brig. Muhammad
		Clinical methods/	(0321-8422933)	Khalid Azam
		Drugs/Instruments/Xray		(0333-5147758)
	02:00 to 03:00	Self-Learning, Preparation	n of the case for next day	
	11:00 to 12:30	Problem based learning	Brig. M. Faheem ur	Col. Faisal Mehmood
		Case Discussion	Rehman Khan	(0330-4091155)
Thursday	12:30 to 02:00	Problem based learning	Maj. Gen. Karamat Hussain	Col. Rafi-ud- Din
		Clinical methods/	Shah Bukhari HI (M)	(0333-4099057)
		Drugs/Instruments/Xray		
02:00 to 03:00 Self-Learning, Preparation of the case for next day			I.	
Friday	10:30 to 12:30		Prof. Rizwana Kitchlew	Brig. (R). Javed Iqbal
			(0301-8438002)	(0334-5414590)
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^{*}On the first day of 1st rotation orientation regarding medical ward, equipment, students and patient safety will be given.

DEPARTMENT OF MEDICINE, CMH LAHORE MEDICAL COLLEGE AMENDED-CLINICAL TEACHING SCHEDULE FOR FINAL YEAR MBBS 2021-22

(AFTERNOON) (w.e.f 10 Jan, 2022)

TIMINGS:

(03:00PM TO 05:00PM)

Day	Final Year		Supervision by
Monday	Dr. Hanniyah Batool Naqvi	(Medical unit-I)	Maj. Bilal Munir /
	(0333-9272928)		Mai Amana Ashraf
	Dr. Sanaa Aslam	(Medical unit-II)	Maj. Amna Ashraf
	(0320-9567375)		
Tuesday	Dr. Noor Ghani	(Medical unit-I)	Maj. Bilal Munir /
	(0333-4382422)		Maj. Amna Ashraf
	Dr. M. Arslan Javed	(Medical unit-II)	Maj. Allina Asilial
	(0332-4521557)		
Wednesday	Dr. Sobia Aslam	(Medical unit-I)	Maj. Bilal Munir /
	(0340-0820997)		Maj. Amna Ashraf
	Dr. Ayesha Malik	(Medical unit-II)	Waj. 7 mila 7 tomai
	(0344-4348485)		
Thursday	Dr. Yamina Nasir	(Medical unit-I)	Maj. Bilal Munir /
	(0345-6736400)		Maj. Amna Ashraf
	Dr. Aqsa Javaid	(Medical unit-II)	
	(0332-3322598)		

- Adherence to timings is requested
- All faculty members requested to follow the clinical teaching schedule

Prof. Dr. Muhammad Siddique Head Department of Medicine CMH Lahore Medical College

e) Learning Resources:

- Library: books, Journals and Internet
- Medical Wards
- OPDs
- Classroom

Student should follow this study guide to learn about the various topics listed in the courses from different resources including formal lectures, literature search, clinical bedside teaching along with performing certain activities to learn on your own through meeting clinicians, performing community based assignments visiting different departments of the hospital along with writing down your own reflections.

f) Other Learning Resources

RECOMMENDED BOOKS:

- 1. Practice of Medicine by Davidson.
- 2. Clinical Medicine by Parveen J Kumar & Michaell, Clark
- 3. Hutchison's Clinical Methods by Michael Swash. 21st edition Davidson's
- 4. Current Medical Diagnosis and Treatment
- 5. Oxford Handbook of Clinical Medicine
- 6. Macleod Clinical Methods
- 7. **Basic psychiatry** by MyreSim, e. B. Gordon
- 8. Oxford Text Book of Psychiatry
- **9. ABC of Dermatology.** Latest Edition.
- 10. Smith's General Urology by Emil A. Tanagho and Jack W. McAninch15th edition. 2007 VI.
- 11.Reference Book
- a) Harrison Clinical Methods
- 12. Online Journals and Reading Materials through HEC Digital Library Facility
- 13. Video Links: http://www.medtube.net/

g) SUMMATIVE ASSESSMENT METHODS AND POLICIES

Internal Assessment

- a. Weightage of internal assessment shall be 10 %, each for theory and practical, in MBBS Professional Examination.
- b. The Internal Assessment shall comprise of monthly test / assignments / class presentation / send-ups /class tests / OSPE etc.
- c. The Internal Assessment record shall be kept in the respective department of the College / Institute .
- d. The result of all the class tests / tools which contribute towards IA will be displayed to the students during an academic year.
- **e.** The same internal assessment shall be counted both for annual and supplementary examinations.

Annual Examination

- a. The weightage of Annual Examination shall be 90%, each for theory and practical, in MBBS.
- b. The examination comprises of a theory paper and practical/clinical examinations as per PM&DC regulations and the Table of Specifications (TOS) of the University.
- c. The gap between two consecutive theory papers shall not be more than two days.
- d. The Theory Paper shall be of 3-hours duration, held under the arrangements of the university. It shall have two parts; MCQs and SEQs for the year 2021. It may be changed after the approval of Academic Council.

Distribution of subjects

Paper-I will include:

Dermatology
Poisoning/animal bites
Nutrition/obesity/ Cholesterol
related &Genetic disorders
Neurology/muscle disorders
Gastroenterology
Liver/pancreas
Rheumatology/bones
Endocrinology

Diabetes

Paper-II will include:
Psychiatry & Mental Health
Haematology & transfusion medicine
Cardiovascular system
Pulmonology
Nephrology, Dialysis & Transplant
Infections
Oncology, Diseases of Lymph Nodes &Bone Marrow
Critical Care & emergency
Pharmacotherapeutics

Pass Marks

- a. Pass marks for all subjects shall be 50 % in theory and practical, separately.
- b. No grace marks shall be allowed to any student in any examination.

h) Table of specification

Pre-Annual/Final Professional Examination (Theory)

MEDICINE PAPER - I (2020)

Time Allowed	03 hrs. (Including MCQs)
MCQs:	
a) Time Allowed	(1 Hour 20 Mins)
b) Total Questions (70)	Single best out of 4 options
c) Marks (1 mark each x 70)	70 marks
SAQs/SEQs:	
a) Time Allowed	(01 hour 40 Mins)
b) Total Questions	09
c) Marks (07 marks each x 8)	56
d) 09 marks x 1	09
(Dermatology)	
e) Internal Assessment	15
✓ Total Marks	150

✓ Pass Marks 75

Topics	Number of MCQs (70) Recall: 07 (10%) Application: 63 (1 mark each)	Number of SAQs/SEQs (09) (Application) (5 mark each)			
Dermatology	10	1			
Poisoning/animal bites	04	1			
Nutrition/obesity/ Cholesterol related & Genetic disorders	04				
Neurology/muscle disorders	12	1			
Gastroenterology	10	2			
Liver/pancreas	08	1			
Rheumatology/ bones	10	1			
Endocrinology	06	1			
Diabetes	06	1			
Total	70 (70)	09 (65)			

Pre-Annual/Final Professional Examination (Theory)

MEDICINE PAPER - II (2020)

Time Allowed	03 hrs. (Including MCQs)			
MCQs:				
Time Allowed	(1 Hour 20 Mins)			
Total Questions (70)	Single best out of 4 options			
Marks (1 mark each x 70)	70 marks			
SAQs/SEQs:				
Time Allowed	(01 hour 40 Mins)			
Total Questions	09			
Marks (07 marks each x	56			
8)				
 09 marks x 1 (Psychiatry) 	09			
Internal Assessment	15			
✓ Total Marks	150			
✓ Pass Marks	75			

Topics	Number of MCQs (70) Recall: 07 Application: 63 (1 mark each)	Number of SAQs/SEQs (09) (07 mark each Psychiatry 9 marks)
Psychiatry & Mental Health	10	1
Haematology & Transfusion Medicine	06	1
Cardiovascular system	13	2
Pulmonology	13	1
Nephrology, Dialysis & Transplant	09	1
Infections	09	1
Oncology, Diseases of Lymph Nodes &Bone Marrow	04	1
Critical Care & emergency	06	1
Pharmacotherapeutics	-	-
Total	70 (70)	09 (65)

Table of Specification for Practical Examination- Medicine 2020

Max Marks = 270 Internal Assessment = 30

✓ Grand Total = 300
 ✓ Pass Marks = 150

CYCLE I (OSCE)										CY	CLE	II (in ward)						
			8 x N	lon-						04 x Observe	d	04 x	Sho	rt Ca				
		_	Obse							Static						1 x Long		
	1		tatic S	tations	•	ı			1	Station	I		ı		1	Case		
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	Observed		
	Procedural skills/Diagnostic skills			ls	Exar	n	Communication	Management	Exam skills				&					
								skill	S	skills	skills					Structured		
DP/T P	IA T F	ТР	IAT F	IAT F	ТР	IAT F	IAT F	SI	SI	ос	TP	C E						HT, CE, Clinical reasoning
Patient Safety/ Infection	Picture	Drug	ECG	X-Ray/ CT Scan	Instruments	Haem Data Interpretatio	Endo Data Interpretatio	Dermatology	Psychiatary	Counselling	Emergency Medicine/ BLS/ ACLS	Respirator y System	Abdomen	CNS	CVS	Focused History & Examinatio n/ investigatio n plan & Manageme		
10	10	10	10	10	10	10	10	10	10	10	10	20	20	20	20	70		
	80 Marks			arks	1	I		40 Marks			80 Marks			I	70 Marks			

5 minutes for each	5 minutes for	Two parallel
station 12 x 5 = 60	each station	long case
Minutes For 25 students = 125 Minutes= 2hrs 5 minutes	For 04 students: 20 minutes For 25 students = 140 Minutes = 2 hrs 20 minutes	 15 minutes for each student For 13 students: 15 x 13 = 3 hours 25 minutes
Static station must include Rheumatology Endocrinology Nephrology	Haematology	

Static station must include Rheumatology, Endocrinology, Nephrology, Haematology

• Number of rest stations depends upon the number of students

Communication: **HT**=Focused History Taking, **OC**=other communication.

Examination: CE = Clinical examinatiopn, **SI**= Sign Identification.

Procedural skills: DP=Diagnostic Procedure, TP=Therapeutic Procedure, IATF=Identification of Abnormal Test Finding

INTERNAL ASSESSMENT CALCULATION FOR THEORY PAPER

Internal Assessment	
Periodical class tests / End of module /rotation exam	30 Marks

INTERNAL ASSESSMENT CALCULATION FOR PRACTICAL

Internal Assessment	
Log book/CBL performance/ End of module /rotation practical Exam/OSCE/ Workshop	30 Marks

i) Sample MCQs and SEQs

Multiple Choice Questions (MCQs)

- A multiple choice question (MCQ) consist of a stem that states the question or problem followed by a set of four possible answers that contain an option that is best answer to the question.
- After reading the questions students should select the appropriate option from the given possible answers.
- The correct answer carries one mark and incorrect carries zero. There is no negative marking.

Sample MCQ

- A 52 years old patient presents with complain of productive cough and fever for 7 days. His chest X-ray shows cavitating lesion with consolidation in left upper lobe. The likely causative organism is
 - a. Hemophilus Influenzae
 - b. Klebsiella Pneumoniae
 - c. Mycoplasma Pneumoniae
 - d. Streptococcus Pneumoniae

Key: b

Short essay question (SEQs)

 Short essay questions require students to present written answers that are used to asses basic knowledge of key facts and provide students with an opportunity to demonstrate reasoning and explain their understanding of the subject.

Sample SEQ

Q. A 20 year old girl presented with complaints of joint pains, oral ulcers and hair loss for 8 months. On examination she had discoid lesions on her face and signs of left sided pleural effusion. Blood Complete picture revealed pancytopenia.

- a) What is the probable diagnosis? (1)
- b) Enlist six further relevant investigations? (3)
- c) Enumerate three indications for steroid use in this condition. (3)

KEY

- a. SYSTEMIC LUPUS ERYTHEMATOSUS
- b. Investigations
- 1. X-ray Chest PA view
- 2. Diagnostic pleural tap
- 3. ANA
- 4. Anti ds-DNA / Anti Sm antibody-ENA Profile
- 5. Complement levels (C3, C4 1)
- 6. Complete urine analysis
- c.Treatment

Steroids for glomerulonephritis, hemolytic anemia, Pericarditis, CNS involvement

Ref: Davidson's Principles & Practice of medicine 22nd Edition .Page no. 1109-1112

j) Feedback:

We only try to help you manage your learning among the thousands of resources in this evolving field. We strongly recommend to link your learning with your clinical setting. Only keep an eye on the learning objectives grid. We sincerely appreciate your feedback as a student reader and a future colleague.

If you have any suggestions for improvement,

Please do not hesitate to contact me.

Prof. Rizwana Kitchlew riz102403@yahoo.com