



BLOCK # 9

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



Block 9
StudyGuide2026
3rdYearMBBS
ISLAMMEDICALCOLLEGE
Sialkot-Pakistan

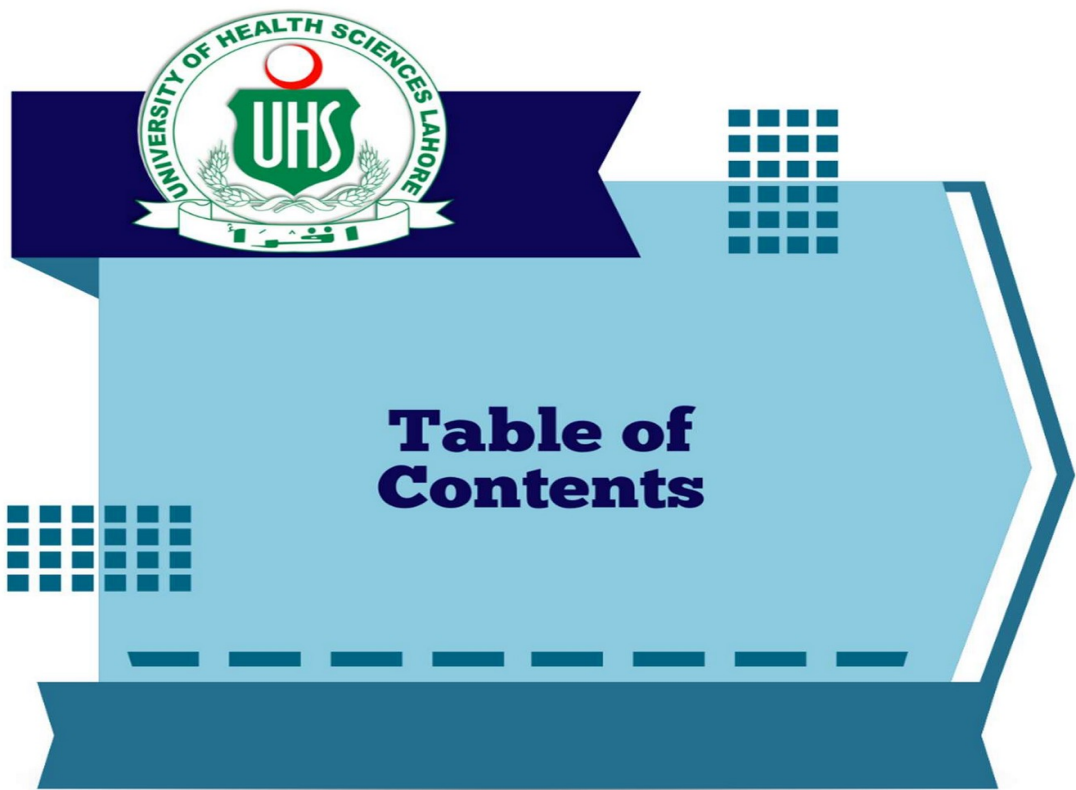


Table of Contents

Table Of Contents	4
Block Lead Details.....	5
Cardiovascular Module 20.....	6
Respiratory Module 21.....	33
Community Medicine Module 22.....	51
Forensic Medicine Module 23.....	78
Time table	110
Assessment tools	121
Assessment.....	122
Table of specification	123
List of Resources	124
CFRC	130.
PERLS	160
Expository	172
Block leads.....	183
Disclaimer.....	184

BLOCK LEAD DETAILS

Hello, I am Dr. Gul Maria working as a Professor in the Department of Forensic Medicine & toxicology at Islam Medical College, Sialkot and now acting as a Block-9 Lead. I completed my MBBS from Baqai Medical University and DMJ Forensic Medicine from university of health sciences, Lahore. You can come to meet me in Forensic Medicine Department, Academic Block 9 from 08:00 -15:00 hours on weekdays. You can also contact me freely on my email syedam652@gmail.com

**Modular Integrated
Curriculum 2K23**
Volume-03

MODULE

20

CARDIOVASCULAR-II



MODULERATIONALE

The Cardiovascular System (CVS 2) Module is designed to provide an understanding of cardiovascular diseases (CVDs), which are a leading cause of global morbidity and mortality. This module is critical at this stage of medical education as it integrates foundational knowledge from basic sciences—such as anatomy, physiology, and pathology—with clinical application in general medicine, surgery, cardiology, pharmacology, and vascular surgery. The module emphasizes the patho physiology, clinical manifestations, diagnostic approaches, and management strategies for common and critical cardiovascular conditions, including coronary artery disease, valvular heart disease, aneurysms, cardiomyopathies, congenital heart diseases, and vascular disorders.

The University of Health Sciences

Vision

UHS is a leading University aiming to keep its graduates apt with the ever-emerging global health challenges, evolving educational methodologies and emerging technological advancements to maintain its distinguishable position as a Medical University. (<https://www.uhs.edu.pk/vision-mission.php>)

Islam Medical College

Vision

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To be a globally recognized center of excellence where Islam medical college empowers competent and ethical healthcare professionals through holistic education, innovative teaching and ground breaking research ‘

MISSION

Islam medical college is dedicated to comprehensive medical education that instills values of integrity , empathy , and professionalism ,we empower our students with knowledge, skills , and a patient centered attitude for lifelong learning

Curricular Out comes(PLOs)

The PLOs are articulated in view of the desirable competencies of four graduates. Following are the PLOs of MBBS Program desired to highlight the attributes amongst our graduates after their graduation

PLO-1 Demonstrate the ability to independently manage non-critical clinical problems (Knowledge, Skill)

PLO-2 Exhibit proficiency in life-saving procedures and the ability to assist in the management of critically ill patients. (Skill)

PLO-3 Adhere to ethical principles and display attributes such as honesty, integrity, and confidentiality. (Attitude)

PLO-4 Conduct research that contributes to the advancement of medical knowledge and brings relevance to healthcare practices (Knowledge, Skill)

PLO-5 Act as an efficient community health promotor by advocating for health promotion and disease prevention. (Skill)

PLO-6 Exhibit comprehensive scientific knowledge in all professional activities. (Knowledge)

PLO-7 Demonstrate clear and efficient written and verbal communication skills to effectively communicate with patients, colleagues and other healthcare professionals. (Skills, Attitude)

PLO-8 Embrace a lifelong learning mind set to maintain expertise, keep up with advancements in medical practices and improve professional development. (Knowledge, Skill)

Module outcome

- Explain pathophysiology and correlate with signs/symptoms: PLO-6, PLO-1
- Apply multidisciplinary concepts to manage diseases: PLO-6, PLO-1
- Diagnose common and critical disorders using diagnostic tools: PLO-1, PLO-2
- Develop evidence-based management strategies: PLO-1
- Interpret diagnostic studies for patient care decisions: PLO-1
- Understand pharmacological agents for prevention and treatment: PLO-6, PLO-1

Themes

1. General Medicine
2. General Surgery
3. Pathology
4. Pharmacology
5. Cardiology
6. Vascular Surgery
7. Pediatrics
8. Biochemistry
9. Anatomy

IMPLEMENTATION TORs

The time calculation for completion of modules and blocks is based on 35 hours per week. Total hours of teaching, learning and formative/summative internal assessment to be completed in a year are 1200. The hours mentioned within each module are the mandatory minimum required. The rest of the hours are left to the discretion of the institution that can be used in teaching, learning and assessment as per decision of the institutional academic council.

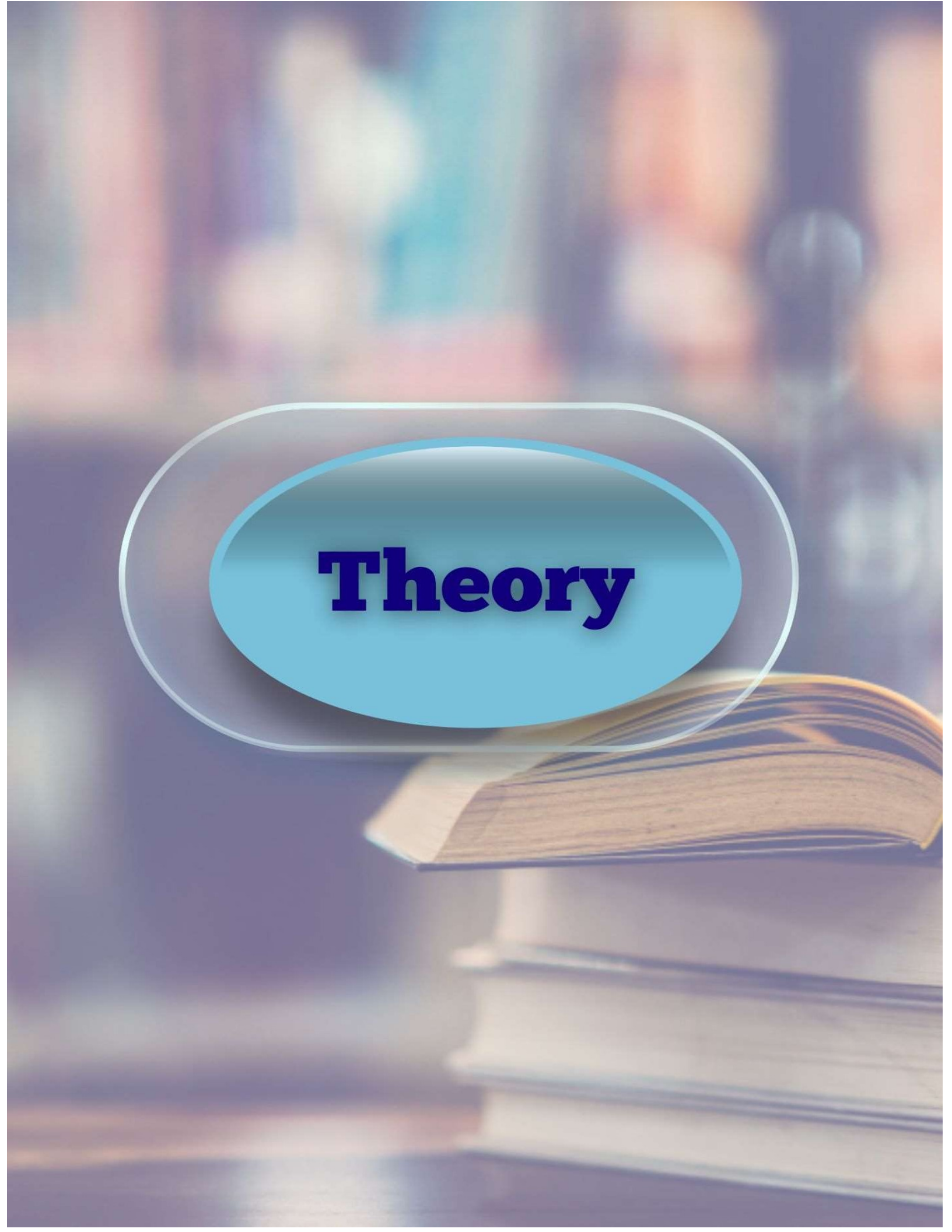
The content and the intended learning outcomes written are mandatory, to be taught, at the level required, as the end year assessment will be based on these.

However, the level of cognition can be kept at a higher level by the institution.

The Table of Specifications provided will be used for the three papers of the first professional examination. The same table of specifications should be used for the respective three block exams for internal assessment.

Syllabus



The image features a stack of several books, with the top book's pages visible. A blue oval with a white border is superimposed over the books. Inside the oval, the word "Theory" is written in a bold, dark blue, serif font.

Theory

GENERAL MEDICINE					
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 10			
		Module 01 DISCIPLINE	TOPIC	Teaching /learning	Assessment Tools
CV2-M-001	Explain the etiology and pathogenesis of rheumatic fever. Describe the Jones Criteria and its significance in the diagnosis of rheumatic fever. Recognize the clinical features and complications of acute rheumatic fever. Discuss the pathological changes associated with rheumatic heart disease. Outline the diagnostic approach, including relevant investigations, for rheumatic fever. Summarize the principles of treatment, secondary prophylaxis, and prevention of rheumatic fever.	Medicine/ Cardiology, integrated with Pathology	Rheumatic fever	LGIS	MCQs
CV2-M-002	Define cor pulmonale and differentiate it from other causes of right heart failure. Classify cor pulmonale based on onset and underlying etiology. Explain the pathophysiological mechanisms involved in the development of cor pulmonale. Identify the etiological factors contributing to cor pulmonale. Diagnose cor pulmonale based on the characteristic symptoms and clinical signs. Describe the diagnostic approach for cor pulmonale. Outline the principles of management and prevention of cor pulmonale.		Cor- pulmonale	LGIS	MCQs

CV2-M-003	Explain the pathophysiology of infective endocarditis. Identify the etiological agents responsible for infective endocarditis. Identify the clinical features and complications associated with infective endocarditis. Discuss the diagnostic approach and outline the principles of management and treatment of infective endocarditis. Describe the strategies for prevention and prophylaxis of infective endocarditis.		Infective endocarditis	LGIS	MCQs
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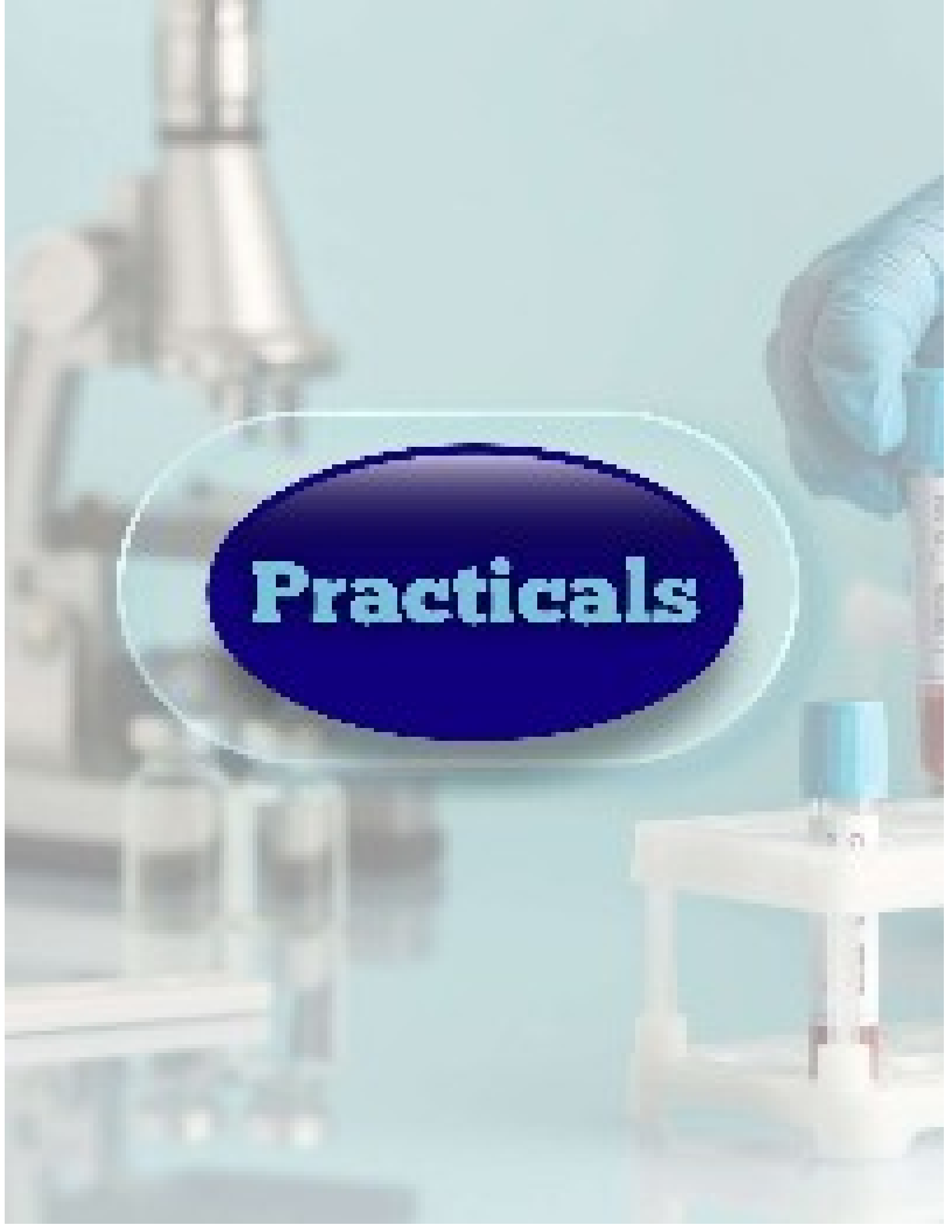
CV2-M-004	Describe the common etiological factors associated with pericarditis. Explain the pathophysiological mechanisms underlying pericardial inflammation. Identify the clinical manifestations and characteristic signs of acute pericarditis. Discuss the diagnostic approaches, Explain the possible complications of acute and chronic pericarditis. Outline the management plan for patients with acute pericarditis. Discuss the preventive measures and prognosis of pericarditis.	Pericarditis		LGIS	MCQs
	P A T H O L O G Y				
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 12			
		DISCIPLINE	TOPIC	Teaching / learning	Assessment Tools
	Define aneurysm and differentiate between true and				

CV2-Pa-001	false aneurysms.	Integrate with biochemistry	Aneurysms	LGIS	MCQs
	Classify aneurysms based on their morphology (saccular, fusiform) and etiology (atherosclerotic, mycotic, and congenital).				
	Understand the underlying mechanisms leading to aneurysm formation, including vessel wall weakening, genetic factors (e.g., Marfan syndrome, Ehlers-Danlos syndrome), and role of atherosclerosis.				
	Identify the common sites where aneurysms form (e.g., aortic aneurysms, cerebral aneurysms, popliteal aneurysms) and explain why certain areas are more prone to aneurysm development.				
	Discuss the clinical signs and symptoms of aneurysms depending on their location (e.g., abdominal aortic aneurysm, thoracic aortic aneurysm) and size.				

	Correlate the presentation with possible complications like rupture, dissection, or				
	List the common diagnostic modalities used in identifying aneurysms (e.g., ultrasound, CT angiography, MRI).				
	Describe the complications of aneurysm				
	Discuss the management of aneurysm				
CV2-Pa-002	Discuss the chemical and morphological changes observed in myocardial infarction with timelines	Integrate with biochemistry	Myocardial Infarction	LGIS	MCQs
CV2-Pa-003	Classify vascular tumors Discuss the pathogenesis of vascular tumors Describe the clinical presentations and morphological features of common vascular tumors along with their immunohistochemical markers		Vascular tumors		
CV2-Pa-004	Classify cardiac tumors and differentiate between primary and secondary (metastatic) cardiac tumors. Enlist the syndromic association of cardiac tumors	Integrate with histology	Cardiac tumors	LGIS	MCQs
	Outline the Principles of Management for Cardiac Tumors	Integrate with surgery			
GENERAL SURGERY/VASCULAR SURGERY					
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=10			
		DISCIPLINE	TOPIC	Teaching	Assessment

CV2-S-001	Explain the causes of acute limb ischemia. Diagnose based on the typical clinical presentation.		Acute Limb Ischemia	LGIS	MCQS
	Differentiate acute limb ischemia from other causes of limb pain and pallor. Select appropriate investigations to confirm diagnosis. Summarize immediate and definitive management strategies. Discuss potential complications if untreated.				
CV2-S-002	Describe and classify gangrene. List the causes of gangrene. Identify characteristic signs and symptoms. Distinguish gangrene from other causes of tissue necrosis. Identify investigations useful for assessment. Outline management principles including supportive and surgical care. Explain possible complications and outcomes.		Gangrene	LGIS	MCQS
CV2-S-003	Identify hallmark clinical features of varicose veins. Differentiate from other causes of lower limb swelling. List appropriate diagnostic methods. Summarize management strategies including lifestyle, compression, and surgical options. Discuss potential complications, including ulceration and thrombophlebitis.		Varicose Veins	LGIS	MCQS

CV2-S-004	Describe underlying mechanism of development of DVT. Diagnose DVT based on clinical signs and symptoms. Differentiate DVT from other causes of leg swelling and pain. Select investigations for diagnosis, including Doppler and D-dimer. Summarize management approaches, including anticoagulation and prophylaxis. Discuss complications, including pulmonary embolism.		Deep Vein Thrombosis (DVT)	LGIS	MCQS
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Practicals

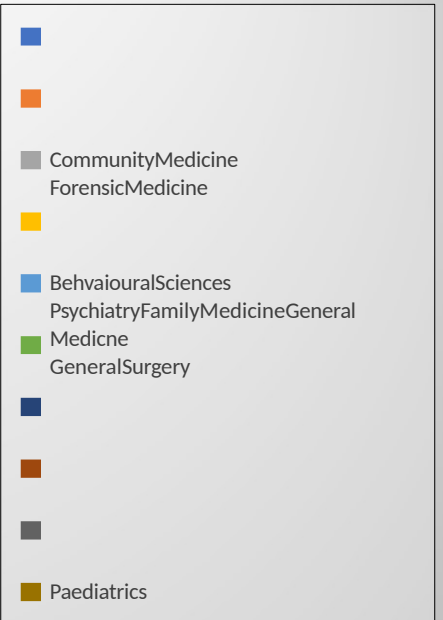
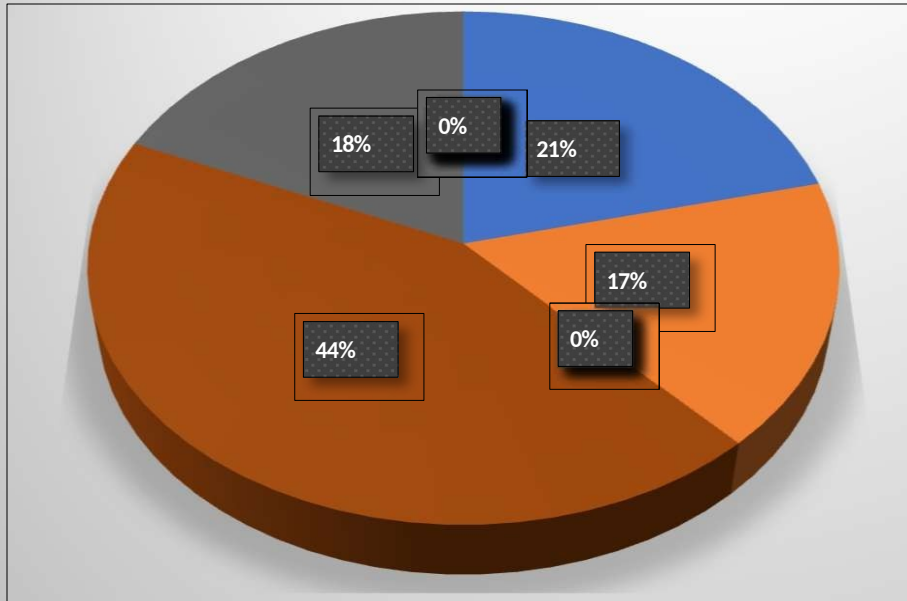
PHARMACOLOGY

CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 04			
		INTEGRATING DISCIPLINE	TOPIC	Teaching / learning	Assessment Tools
CV2-Ph-006	Analyze and interpret drugs (acetylcholine, atropine, adrenaline, propranolol) on an animal through online videos/simulations/graphs/practical performance.	Pharmacology	Cardiovascular System	SGD	OSPE / OSVE
	Analyze and interpret different concentrations of acetylcholine on frog's heart through online videos/simulations/graphs/practical performance.				
	Prepare normal saline, dextrose saline. Prepare 1000 ml of O.R.S. in water.				
	Prescription writing of the following conditions: hypertension (mild to moderate, hypertensive crisis/malignant hypertension), acute and chronic angina, left ventricular failure.				

Foundation

CardiovascularSystem-II

PharmacologyPathology



**Modular Integrated
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Volume-03

MODULE

21

RESPIRATORY-II



Curricular Out comes (PLOs)

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PLO-1 Demonstrate the ability to independently manage non-critical clinical problems (Knowledge, Skill)

PLO-2 Exhibit proficiency in life-saving procedures and the ability to assist in the management of critically ill patients. (Skill)

PLO-3 Adhere to ethical principles and display attributes such as honesty, integrity, and confidentiality. (Attitude)

PLO-4 Conduct research that contributes to the advancement of medical knowledge and brings relevance to healthcare practices (Knowledge, Skill)

PLO-5 Act as an efficient community health promotor by advocating for health promotion and disease prevention. (Skill)

PLO-6 Exhibit comprehensive scientific knowledge in all professional activities. (Knowledge)

PLO-7 Demonstrate clear and efficient written and verbal communication skills to effectively communicate with patients, colleagues and other healthcare professionals. (Skills, Attitude)

PLO-8 Embrace a lifelong learning mind set to maintain expertise, keep up with advancements in medical practices and improve professional development. (Knowledge, Skill)

MODULERATIONALE

The curriculum for respiratory medicine and related fields is designed to equip students with essential knowledge and skills in managing thoracic trauma, respiratory complications, and conditions affecting respiration.

Demonstrate the qualities of compassion, honesty, and integrity in interactions with patients, families, communities, and fellow medical professionals. Exhibit a professional demeanor, foster a team-oriented spirit, and employ effective communication skills by actively participating in collaborative problem-solving, particularly in small group exercises focused on understanding respiratory disorders.

MODULE OUTCOMES

- Integrate foundational concepts to address clinical respiratory issues. (PLO-1, PLO-6)
- Interpret common respiratory symptoms with accuracy in assessments. (PLO-1, PLO-6)
- Outline management plans for prevalent respiratory diseases during case discussions. (PLO-1)
- Utilize a problem-solving approach to accurately diagnose respiratory emergencies in simulated scenarios. (PLO-2)
- Demonstrate understanding of respiratory tract malignancies and referral criteria by the end of the module. (PLO-1, PLO-6)
- Identify the morphological features of common respiratory tract diseases in practical examinations. (PLO-6)
- Demonstrate effective communication strategies in patient interactions, evaluated through peer and instructor feedback. (PLO-7)

Themes

1. Medicine
2. Surgery
3. Pathology
4. Clinical Pharmacology & Therapeutics
5. Community Medicine
6. Behavioural Sciences
7. Forensic Medicine
8. Paed's
9. Radiology

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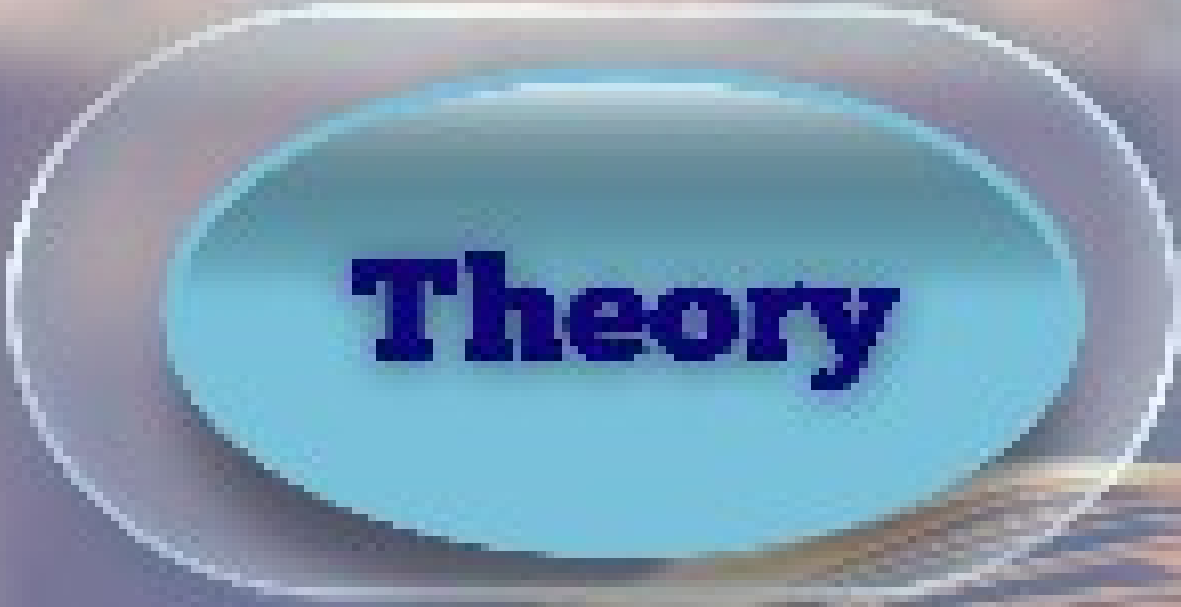
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Theory

PATHOLOGY					
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=25			
		DISCIPLINE	TOPIC	Teaching /learning	Assessment Tools
Re2-Pa-001	Describe hypersensitivity reaction 1 with clinical examples Describe immune mechanism involved in HSR-I	Pathology	Hyper-sensitivity reaction (HSR) Type I	LGIS	MCQs
Re2-Pa-002	Define & classify asthma Discuss pathogenesis of atopic and non-atopic asthma.		Bronchial asthma	LGIS	MCQs
Re2-Pa-003	Define chronic bronchitis Describe the pathogenesis and morphological features of chronic bronchitis and bronchiectasis		Chronic bronchitis	LGIS	MCQs
Re2-Pa-004	Define and classify emphysema Describe the pathogenesis and morphological features of emphysema		Emphysema	LGIS	MCQs
Re2-Pa-005	Differentiate between obstructive and restrictive pulmonary diseases List the causes of restrictive lung diseases Describe pneumoconiosis with respect to etiology and pathogenesis Enlist asbestos related diseases Describe morphologic features of asbestosis		Restrictive Lung Diseases	LGIS	MCQs
Re2-Pa-006	Describe various etiological factors of pulmonary pneumonia. Describe morphological features of bronchogenic and lobar pneumonia. Describe four stages of lobar pneumonia Explain the complications associated with pulmonary pneumonia		Pneumonia	LGIS	MCQs
Re2-Pa-007	Describe the morphological features of different types of granulomatous inflammation		Granulomatous	LGIS	MCQs

	Describe Ghon's complex.		Inflammation		
	Differentiate between primary and secondary tuberculosis.			LGIS	MCQs
Re2-Pa-008	Describe hypersensitivity reaction IV with clinical examples Describe the immune mechanism involved in HSR IV		Hypersensitivity Reaction (Hsr) Type IV	LGIS	MCQs
Re2-Pa-009	Classify pleural tumors Describe morphologic features of malignant Mesothelioma		Pleural Tumors	LGIS	MCQs
Re2-Pa-010	Classify lung tumors Describe etiopathogenesis and morphologic features of lung tumors Enumerate paraneoplastic syndromes associated with lung tumors		Lung Tumors	LGIS	MCQs
Re2-Pa-011	Classify pulmonary edema according to etiology Describe clinical conditions associated with development of ARDS Describe the pathogenesis of ARDS Describe morphological features of Diffuse alveolar damage (DAD)		Pulmonary Edema & Acute Respiratory Distress Syndrome (ARDS)	LGIS	MCQs
Re2-Pa-012	Describe the important morphological features, virulence factors of Mycobacterium tuberculosis with their clinical significance Describe the pathogenesis of Pulmonary tuberculosis Describe the immunity and hypersensitivity against infections by Mycobacterium tuberculosis Extrapulmonary tuberculosis infections	Microbiology	Mycobacterium Tuberculosis	LGIS	MCQs

Re2-Pa-013	Describe Coronavirus Explain the structure and antigenicity of the virus Describe the pathogenesis of corona virus Discuss the relation with pneumonia	Microbiology	COVID-19	LGIS	MCQs
	Enlist organisms producing respiratory tract infections	Microbiology			

Re2-Pa-014	Correlate clinically the virulence factors, transmission, pathogenesis, laboratory diagnosis of organisms causing respiratory tract infections; i. Mycobacterium tuberculosis ii. Streptococcus pneumoniae iii. Mycoplasma pneumoniae iv. Legionella pneumoniae	Microbiology	Microorganisms producing Respiratory tract infection	LGIS	MCQs
	Correlate clinically the virulence factors, transmission, pathogenesis, laboratory diagnosis of organisms causing respiratory tract infections; i. Haemophilus influenzae ii. Klebsiella iii. Corynebacterium diphtheria iv. Bordetella	Microbiology			
	Correlate clinically the virulence factors, transmission, pathogenesis, laboratory diagnosis of organisms causing respiratory tract infections; i. Influenza & parainfluenza viruses ii. RSV iii. Rhinovirus	Microbiology			
	Correlate clinically the virulence factors, transmission, pathogenesis, laboratory diagnosis of organisms causing respiratory tract infections; i. Measles ii. Pneumocystis carinii iii. Aspergillus	Microbiology			

Re2-Pa-015	Describe the important morphological characteristics, biochemical reactions, virulence factors of Bordetella pertussis with their clinical Significance Describe pathogenesis of Bordetella pertussis infections Describe lab diagnosis of Bordetella pertussis infections.	Microbiology	Bordetella Pertussis	LGIS	MCQs
Re2-Pa-016	Describe the important morphological characteristics, biochemical reactions, virulence factors of Streptococcus pneumoniae with their clinical significance Enumerate the diseases caused by Streptococcus Pneumoniae Describe the pathogenesis of lobar Pneumonia caused by S. pneumonia Describe the lab investigation of Streptococcus Pneumoniae infections	Microbiology	Streptococcus Pneumoniae	LGIS	MCQs
Re2-Pa-017	Describe the important morphological characteristics, biochemical reactions, virulence factors of H. influenzae with their clinical significance Describe the pathogenicity of H. influenzae in causation of respiratory tract infections Describe the lab diagnosis of H. influenzae infections	Microbiology	H. Influenza	LGIS	MCQs
Re2-Pa-018	Describe the important morphological characteristics, biochemical reactions, virulence factors of Mycoplasma pneumoniae Describe the pathogenesis of atypical pneumonia caused by M. pneumoniae Describe the lab diagnosis of M. pneumoniae infections	Microbiology	Mycoplasma Pneumoniae	LGIS	MCQs
Re2-Pa-019	Describe the important morphological characteristics, biochemical reactions, virulence factors of Legionella pneumophila Describe the pathogenesis of atypical pneumonia caused by Legionella pneumophila	Microbiology	Legionella	LGIS	MCQs

Re2-Pa- 020	Define Chlamydia. Enumerate their medically important species Enumerate the diseases caused by Chlamydia Describe the important morphological characteristics, biochemical reactions, virulence factors of Chlamydia and their clinical significance. Describe the pathogenesis of <i>C. trachomatis</i>, <i>C. pneumoniae</i>, <i>C. psittaci</i> mediated atypical pneumonias	Microbiology	Chlamydiae & Coxiella burnetii	LGIS	MCQs
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	Describe the lab diagnosis of Chlamydia infections				
Re2-Pa-021	Describe the important morphological characteristics, biochemical reactions, virulence factors of Bacillus anthracis with their clinical significance. Describe the lab diagnosis of Bacillus anthracis infections.	Microbiology	Bacillus Anthracis	LGIS	MCQs
Re2-Pa-022	Describe the important morphological characteristics, biochemical reactions, virulence factors of Yersinia pestis and their clinical significance Describe the pathogenesis of plague Describe the lab diagnosis of Yersinia pestis infections	Microbiology	Yersinia Pestis	LGIS	MCQs
PHARMACOLOGY					
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=17			
		DISCIPLINE	TOPIC	Teaching / learning	Assessment Tools
Re2-Ph-001	Classify the drugs used to treat asthma Discuss the role of different drugs in the prevention & treatment of asthma. Describe the mechanism of action & adverse effects of Beta 2 agonists used in asthma. Describe the mechanism of action, actions & adverse effects of Methylxanthines. Describe their mechanism of action, clinical uses and adverse effects of drugs used to treat bronchial asthma. Discuss the roles of corticosteroids in the treatment of bronchial asthma. Define status asthmaticus and its management.	Clinical Pharmacology & Therapeutics	Anti-Asthmatic drugs	LGIS	MCQs
Re2-Ph-002	Classify the drugs used for hospital and community-acquired pneumonia Describe the mechanism of action for each class		Drugs for treatment of pneum	LGIS	MCQs

			onia		
Re2-Ph-003	Define autacoids. Enlist major histamine receptors. Classify anti-histamine drugs. Describe clinical uses, and toxicity of antihistamines. Classify serotonin agonists & antagonists. Describe the clinical uses, and adverse effects of serotonin agonists & antagonists. Enumerate ergot alkaloids. Describe the mechanism of action, clinical uses, and toxicity of ergot alkaloids. Enlist the types of prostaglandins. Describe the mechanism of action, clinical uses, and adverse effects of prostaglandins.		Autacoids	LGIS	MCQs

SURGERY					
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=08			
		DISCIPLINE	TOPIC	Teaching /learning	Assessment Tools
Re2-S-001	Describe mechanism of tension pneumothorax (T.P.) Enlist the causes of T.P. Diagnose tension pneumothorax based on clinical presentation. Outline the steps of treatment of T.P.		Tension Pneumothorax	LGIS	MCQs
Re2-S-002	Describe sucking chest wound. Describe the underlying respiratory physiological changes in flail chest. Define flail chest. Describe mechanism of respiratory sequel of flail chest. Describe the clinical features of flail chest. Describe treatment options in flail chest. Describe steps of management of such wound.		Open Pneumothorax	LGIS	MCQs
Re2-S-003	Define surgical emphysema. Enumerate the causes of surgical emphysema. Describe clinical features of Surgical emphysema Describe the steps of management of Surgical emphysema. Enumerate complications.		Surgical emphysema	LGIS	MCQs
Re2-S-004	Describe the potential post-operative respiratory complications.		Post Op Respiratory Complications	LGIS	MCQs
	Interpret the X-ray findings of post-operative pneumonia. Outline the treatment option of complications. Enlist the causes of diaphragmatic rupture Enumerate the clinical features Describe the x-ray/USG findings Describe the steps of management				

	Outline investigation plan of interstitial lung diseases				
Re2-S-005	Describe the treatment of interstitial lung diseases Define the pulmonary contusions Enumerate the clinical features Describe the steps of management Describe complications of pulmonary contusion.		Lungs Injuries	LGIS	MCQs
	MEDICINE/PULMONOLOGY				
CODE	SPECIFIC LEARNING OUTCOMES Describe the epidemiology prevalence and preventive measures of Tuberculosis Describe the epidemiology prevalence and preventive measures of Respiratory infections Describe the epidemiology & Prevention of Pneumoconiosis	TOTAL HOURS=19	Preventive Measures	LGIS	MCQs
		DISCIPLINE	TOPIC	Teaching /learning	Assessment Tools
Re2-M-005	Correlate clinical features of bronchial asthma to its pathogenesis Describe the epidemiology prevalence and preventive measures of Influenza, Diphtheria, whooping cough, meningococcal meningitis Enlist features of acute severe asthma Discuss the efficacy of the BCG vaccine in different populations Discuss the step-wise therapy of stable asthma	Community Medicine Pulmonology/ Medicine	Bronchial asthma	LGIS	MCQs
	Define pleural effusion Discuss the management of acute severe asthma		Pleural Effusion	LGIS	MCQs
Re2-M-006 Re2-M-002	Differentiate between exudative and transudative pleural effusion Define COPD Describe clinical features of COPD Enlist causes of pleural effusion Outline investigation plan of a patient with COPD Describe clinical features of pleural effusion Describe GOLD staging criteria for COPD Outline investigations in a patient with pleural effusion Outline the management of acute exacerbation of COPD Describe palliative management of recurrent pleural effusion Describe long term management of COPD Describe criteria for long term oxygen therapy in COPD	Pulmonology/ Medicine Pulmonology / Medicine	COPD, Chronic bronchitis, Emphysema	LGIS	MCQs
Re2-M-007 Re2-M-003	Define respiratory failure Enlist the causes of bronchiectasis Classify types of respiratory failure Describe the clinical features of bronchiectasis Describe clinical features of respiratory failure Outline investigations of bronchiectasis Enlist the complications of bronchiectasis Describe management of respiratory failure	Pulmonology/ Medicine	Respiratory Failure Bronchiectasis	LGIS	MCQs
Re2-M-008	Define Etiology, clinical features, investigations, treatment of OSA		Obstructive Sleep Apnea	LGIS	MCQs
Re2-M-004	Enlist the causes of ILD	Pulmonology/ Medicine	Interstitial Lung Diseases	LGIS	MCQs
Re2-M-009	Enumerate the lab investigations to diagnose Covid 19 Describe the clinical features of interstitial lung diseases Describe the clinical presentation of covid-19 discuss the management protocols to treat covid patient complications Discuss the vaccination and side effect (for COVID)	Pulmonology/ Medicine Pulmonology / Medicine	COVID-19 Diseases	LGIS	MCQs



Practicals

PRACTICAL/LABWORK

PATHOLOGY

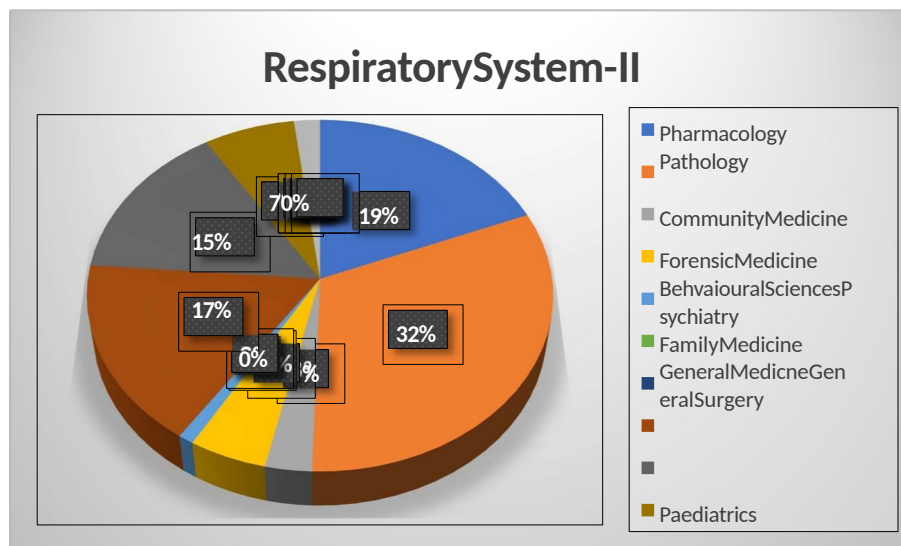
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=4+3			
		DISCIPLINE	TOPIC	Teaching /learning	Assessment Tools
Re2-Pa-023	Identify the morphological features of the following: Small cell carcinoma lung, Squamous cell carcinoma lung, Adenocarcinoma lung, Malignant Mesothelioma (Pictorial/slide).	Pathology	Image Session Of Respiratory System-II	SGD	OSPE/ OSVE
Re2-Pa-024	Interpret the laboratory findings of infections Streptococcus Pneumoniae.	Microbiology	Streptococcus Pneumoniae	SGD	OSPE/ OSVE
Re2-Pa-025	Observe/perform Ziehl-Neelsen staining on a sputum sample to detect acid-fast bacilli (Mycobacterium tuberculosis) accurately, following all biosafety and staining protocols.	Microbiology	Mycobacterium Tuberculosis	SGD	OSPE/ OSVE
Re2-Pa-026	Interpret RT-PCR results for SARS-cov-2, identifying positive, negative, and inconclusive reports under supervision.	Microbiology	COVID-19	SGD	OSPE/ OSVE

PHARMACOLOGY

CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=02			
		DISCIPLINE	TOPIC	Teaching /learning	Assessment Tools
Re2-Ph-004	Write down the prescription writing for the following conditions/diseases: Bronchial Asthma (acute severe/status asthmaticus and chronic), Cough, Allergic Rhinitis and Acute streptococcal Pharyngitis	Clinical Pharmacology & Therapeutics	Prescription Writing	SGD	OSPE/ OSVE

COMMUNITY MEDICINE					
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=02			
		DISCIPLINE	TOPIC	Teaching /learning	Assessment Tools
Re2-CM-001	Describe the standard preventive precautions for all patients. Describe the additional precautions for infected patients & for patient requiring single isolated room. Describe the precautions for family members providing care to the patient in hospital & home. Describe the use of face mask, gloves, shoe cover, cap and gown. Recognize the common errors made while using personal protective equipment. Demonstrate the method to wear face mask, gloves, shoe cover, cap and gown & remove them aseptically.	Community Medicine	Isolation Precautions	SGD	OSPE/ OSVE

FOUNDATION



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MODULE

22

COMMUNITY MEDICINE
& FAMILY HEALTH-I



MODULERATIONALE

The module on Community Medicine and Family Medicine is crucial for addressing the learning needs of medical students about holistic concept of health, prevalent health problems, their determinants and provision of comprehensive healthcare to the communities.

Curriculum on Community Medicine and family medicine equips future healthcare professionals with the knowledge, skills and attitude to implement preventive strategies, health promotion & reduce the burden of disease through primary health care approach targeting universal health coverage. Health outcomes are influenced by social, economic & environmental factors. It helps students understand the broader determinants of health & how to address health disparities. Public health crises such as pandemics, natural disasters & environmental hazards require professionals trained in community-based responses & health emergencies and reaching at door step through provision of family health services. Healthcare professionals must be equipped to engage in provision of healthcare needs at smaller scale and building health policy at local, national and global level to improve public health outcomes.

Curricular Out comes(PLOs)

The PLOs are articulated in view of the desirable competencies of our graduates. Following are the PLOs of MBBS Program desired to highlight the attributes amongst our graduates after their graduation

PLO-1 Demonstrate the ability to independently manage non-critical clinical problems (Knowledge, Skill)

PLO-2 Exhibit proficiency in life-saving procedures and the ability to assist in the management of critically ill patients. (Skill)

PLO-3 Adhere to ethical principles and display attributes such as honesty, integrity, and confidentiality. (Attitude)

PLO-4 Conduct research that contributes to the advancement of medical knowledge and brings relevance to healthcare practices (Knowledge, Skill)

PLO-5 Act as an efficient community health promotor by advocating for health promotion and disease prevention. (Skill)

PLO-6 Exhibit comprehensive scientific knowledge in all professional activities. (Knowledge)

PLO-7 Demonstrate clear and efficient written and verbal communication skills to effectively communicate with patients, colleagues and other healthcare professionals. (Skills, Attitude)

PLO-8 Embrace a lifelong learning mind set to maintain expertise, keep up with advancements in medical practices and improve professional development. (Knowledge, Skill)

Module outcome

- Apply epidemiological study designs in research: PLO-4, PLO-6
- Apply community diagnosis and screening principles: PLO-5, PLO-1
- Apply environmental safety and global health concepts: PLO-5, PLO-6
- Apply infectious disease epidemiology for control: PLO-5, PLO-1
- Apply surveillance types in disease control/eradication: PLO-5, PLO-1
- Understand herd immunity and immunization roles: PLO-5, PLO-6
- Demonstrate health education and communication techniques: PLO-7, PLO-5
- Apply primary health care for universal coverage: PLO-5, PLO-1
- Demonstrate comprehensive "One Health" services: PLO-5, PLO

Themes
1. CommunityMedicine
2. FamilyHealth

The time calculation for completion of modules and blocks is based on 35 hours per week. Total hours of teaching, learning and formative/summative internal assessment to be completed in a year are 1200.

The hours mentioned within each module are the mandatory minimum required. The rest of the hours are left to the discretion of the institution that can be used in teaching, learning and assessment as per decision of the institutional academic council.

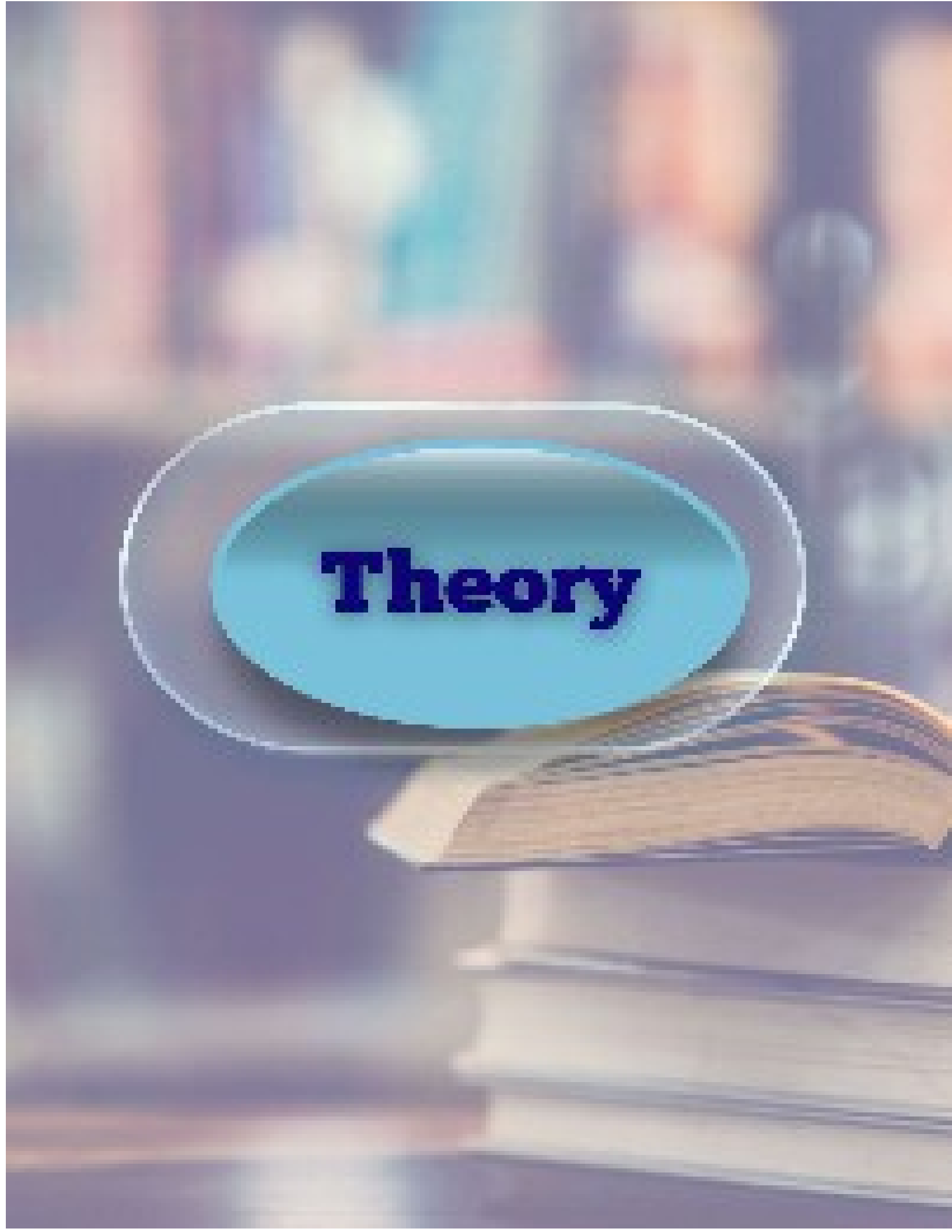
The content and the intended learning outcomes written are mandatory, to be taught, at the level required, as the end year assessment will be based on these.

However, the level of cognition can be kept at a higher level by the institution.

The Table of Specifications provided will be used for the three papers of the first professional examination. The same table of specifications should be used for the respective three block exams for internal assessment.

Syllabus





Theory

COMMUNITY MEDICINE					
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=44			
		DISCIPLINE	TOPIC	Teaching / learning	Assessment tools
CMFH 1- CM-0 01	Explain the development of Public Health in Pakistan.	Community Medicine	Health Systems in Pakistan	LGIS	MCQs
	Describe the Health Policy and planning in Pakistan.				
	Explain the background, concepts and progress made towards achieving "Health for all",				
	Describe the concepts and assess the progress of "Primary Health Care"				
	Describe the National Disease Control programs including policies, strategies and operations.				
	Analyze the roles of Federal and Provincial Governments in managing Health care services in Pakistan				
	Discuss The District Health System, in the context of devolution. The Physician as a manager: Functions of manager management of material, human and financial resources.				
	Explain key principles of leadership and motivation in health care settings				
	Describe the collaboration between the public and private sectors in health care				
	Evaluate the role of Non-governmental Organizations and International Agencies.				
	Analyze the resources available for health.				
	Discuss the importance of community mobilization				
CMFH 1- CM-0 02	Describe the background, concepts, uses and basic measurements of epidemiology (morbidity, mortality, disability and fatality)	Community Medicine	General Epidemiology and Research Methods and Screening methodology	LGIS	MCQs
	Describe the different epidemiological methods including descriptive, analytic and experimental approaches				

	Differentiate between association and causation Outline the investigation of an outbreak or an epidemic Explain the principles and methods of diseases screening				
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	Conduct a community diagnosis and interpret its findings				
	Describe research and survey methodologies				
CMFH1- CM-003	Describe the composition of air	Community Medicine	Environment al Health Sciences	LGIS	MCQs
	Describe the causes of air pollution and methods of air purification				
	Explain the diseases caused by impurities in the air and their prevention				
	Identify the sources of water and understand daily water requirements				
	Analyze the causes of water pollution and methods for its prevention				
	Describe the process of water purification and water quality standards				
	Describe diseases caused by polluted water and their prevention				
	Explain the contents, hazards, and safety measures for the disposal of solid and liquid waste from domestic, industrial, and hospital sources Explain global and marine problems related to waste disposal.				
	Differentiate between climate and weather				
	Analyze global environmental concerns like greenhouse effect, depletion of Ozone layer and acid rains.				
	Explain the effects of extremes in temperature, humidity, and atmospheric pressure on human health, along with prevention methods.				
	Describe the sources, types, causes, hazards, and prevention of radiation exposure.				
	Explain the concepts of healthful housing and the				

	challengesfacedinurbanandruralslums.				
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	Definenoise,itscauses,acceptablelevels, andthe hazardsandmethodsofcontrol.				
CMFH1-CM-004	DifferentiatebetweenInfection,contamination,pollution, infestation.		Prevention and control of Infectious diseases	LGIS	MCQs
	Define the terminology of Infectious disease, communicabledisease,contagiousdisease.				
	DefineHost,Immuneandsusceptiblepersons.				
	DifferentiatebetweenSporadic,Endemic,Epidemic, Pandemic,Epizootic,ExoticandZoonotic.				
	Describetherolesofcontact,fomites,carriers,insect vectors,andreservoirsofinfection.				
	Describetheincubationperiod,infectiveperiod,and generationtime.				
	Differentiate between cross infection, nosocomial infections, opportunistic infections, and iatrogenic disorders(Physicianinduced).				
	Explaintheconceptsofsurveillance,control,eradication, andelimination.				
	Analyzethevariousmodesofdiseasetransmission.				
	Discussetheprinciplesofdiseasepreventionandcontrol.				
	Describethemethodsandtypesofdisinfection.				
	Explaintheconceptofimmunity.				
	Identifydifferentimmunizingagents.				
CMFH1-CM-005	DescribetheconceptsaimsandapproachesofIECand approachesusedinpublichealth.	Com mu nity	Communication, information Andhealth	LGIS	MCQs
	Explainthecontents,principlesandstagesofhealth education.				
	Explaintheprocess,types,methodsandbarriersof communication.				
	Identifytheroleofhealthcareproviderinhealth				

		Me dici ne			
	education.		education	LGIS	MCQs
	Describe the concept of social marketing and its' applications in health sector.				
	Conduct the health education sessions.				

FAMILY MEDICINE					
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=15			
		DISCIPLINE	TOPIC	Teaching / learning	Assessment tools
CMFH1-FM-001	List common causes of acute and chronic cough. Describe the systematic approach to a patient presenting with cough in OPD. Formulate a differential diagnosis based on history and examination. Identify appropriate baseline investigations. Outline initial management strategies. Identify indications for referral to specialty care.		Cough	LGIS	MCQs
CMFH1-FM-002	List common cardiac, respiratory, gastrointestinal, musculoskeletal, and psychological causes of chest pain. Describe a structured OPD approach to evaluating chest pain. Formulate a differential diagnosis using history, examination, and risk factors. Select appropriate baseline investigations (e.g., ECG, chest X-ray, lab tests). Outline initial management strategies, including urgent care if indicated. Identify criteria for referral to cardiology, pulmonology, or gastroenterology.		Chest Pain	LGIS	MCQs
CMFH1-FM-003	List common causes based on anatomical regions (upper, lower, right/left, generalized). Describe a systematic OPD assessment of a patient with abdominal pain. Formulate a differential diagnosis guided by history and physical findings. Select appropriate baseline investigations (e.g., CBC, LFTs, ultrasound).		Abdominal Pain	LGIS	MCQs

	Outline initial management strategies including symptomatic relief.				
	Recognize indications for referral to surgery, gastroenterology, or other specialties.				
CMFH1-FM-004	List common causes of acute and chronic joint pain (inflammatory, degenerative, infectious, systemic). Describe an OPD approach for evaluating joint pain. Formulate a differential diagnosis using history, examination, and pattern of joint involvement. Identify relevant baseline investigations (e.g., CBC, ESR, CRP, X-rays). Outline initial management including analgesia and lifestyle advice. Recognize indications for referral to rheumatology, orthopedics, or physiotherapy.		Joint Pain	LGIS	MCQS

COMMUNITY VISIT

COMMUNITY MEDICINE

CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=36			
		DISCIPLINE	TOPIC	Teaching /learning	Assessment tools
CMFH1-CM-007	Assess the appropriateness of location of a water purifying facility.	Community Medicine	Water purification plant/Water testing lab	L G S	MC Qs
	Elaborate on the process of delivering and transporting water to a water treatment plant.				
	Differentiate the critical aspects of water supply from various sources.				
	Identify the physical and chemical characteristics of water.				
	Determine the characteristics of the ingredients contained in water purification plants.				
	Characterize infectious organisms and indicators.				
	Explain how chemical compounds affect human health.				
	Discuss the physical, chemical, and biological unit operations that are commonly encountered in treatment				
	processes.				
	Determine which rules, regulations, and guidelines that govern the selection of various water treatment processes at the local, national, and international levels.				
	Highlight the requirement for surface water and some groundwater treatment for drinking reasons.				
	Describe the role of each treatment procedure in the treatment of drinking water.				
	Outline a fundamental overview of technology selection.				
	Evaluate the working of water treatment plants.				
	Identify working biomedical waste department				
	Describe various types of biomedical waste & their		Visit to		

CMFH1- CM-008	disposal in hospital Explain with rationale about the waste management plan of their hospital	Community Medicine	hospital waste manage- ment	LGIS	MCQs
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	Describe color coding scheme for various types of waste according to WHO Describe the various methods to dispose of waste, their advantages and disadvantages. Describe non risk waste and risk waste. Describe incineration working and cost analysis Describe storage site of waste at hospital				
CMFH1-CM-009	Describe the various physical, emotional and cognitive disabilities experienced by people who receive rehabilitation services and understand their functional limitations. Explain the medical & psychosocial impact of disabilities. Explain the impact of society's attitudes towards disabilities on the treatment of people with disabilities Evaluate the effect of physical, mental, gender, racial, cultural, and environmental factors on the lives of people with disabilities. Develop interaction skills to accommodate cultural sensitivity when working with consumers & their families. Explain the local context to familiarize the wide variety of generic and specialized community resources available to serve people with disabilities. Describe the major services provided in rehabilitation (e.g., rehabilitation counseling, vocational evaluation, adjustment services, job placement, physical restoration, environmental adaptations). Explain the role of the rehabilitation case manager in coordinating services for people with disabilities. Explain the local, state, and federal laws that affect rehabilitation services and the rights of people with disabilities. Explain the importance of advocacy (including self-advocacy) in the field of rehabilitation	Community Medicine	Visit to Rehabilitation center	LGIS	MCQs

	Discuss awareness and imparting skills to empower consumers to be active participants in their own rehabilitation plan. Critically appraise the ethical guidelines based on principles that encompass the rehabilitation field. Develop the verbal, written, and nonverbal communication skills necessary to work with people with disabilities, their families, and other service providers. Develop basic rehabilitation service delivery skills Describe the rehabilitation process and techniques used to evaluate eligibility for services, assess consumer to identify employment and independent living options, develop appropriate treatment plans, and provide follow-up Explain the similarities and differences among public, private not-for-profit, and private-for-profit rehabilitation practice. Discuss the community-based employment options for individuals with disabilities Identify the social, political, economic, and legal issues pertinent to an aging society and rehabilitation Develop the knowledge and skills pertinent to the procedures and programs provided to people with developmental disabilities. Develop the knowledge and skills pertinent to the procedures and programs provided to people with psychiatric disabilities. Develop the knowledge and skills to train, supervise, and evaluate employees who are providing direct care to consumers. Discuss the professional organizations, professional journals, and job opportunities in the field of rehabilitation. Discuss the integration of biological, physical, behavioral, and clinical sciences into physical therapy services		
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	Exhibit professional conduct and behaviors that are consistent with the legal and ethical practice of physical therapy. Demonstrate compassion, care, integrity, and respect for differences, values, and preferences in all interactions with patients/clients, family members, health care providers, students, other consumers, and payers. Screen patients/clients to determine if they are candidates for physical therapy services or if a referral to, or consultation with, another health care professional or agency is warranted. Complete patient/client examination/re-examination and evaluate and interpret the examination data to determine a physical therapy diagnosis and prognosis Employ critical thinking, self-reflection, and evidence-based practice to make clinical decisions about physical therapy services. Collaborate with patients/clients, caregivers, and other health care providers to develop and implement an evidence-based plan of care that coordinates human and financial resources. Critically appraise the services and information related to health promotion, fitness, wellness, health risks, and disease prevention within the scope of physical therapy practices and rehabilitation				
CMFH1-CM-010	Apply 5 levels of prevention for diseases of public health importance. Design and implement community-based Health education and promotion projects. Collect, organize, analyze, interpret and disseminate data of disease burden in community and present report	Community Medicine	Visit to BHU & RHCs	LGIS	MCQs

CMFH1- CM-011	Householdsurveyof10houses.Datacollectionandreport writing	Community Medicine	Acquired com muni tyin vicini ty of Medi cal LGIS MCQ s College
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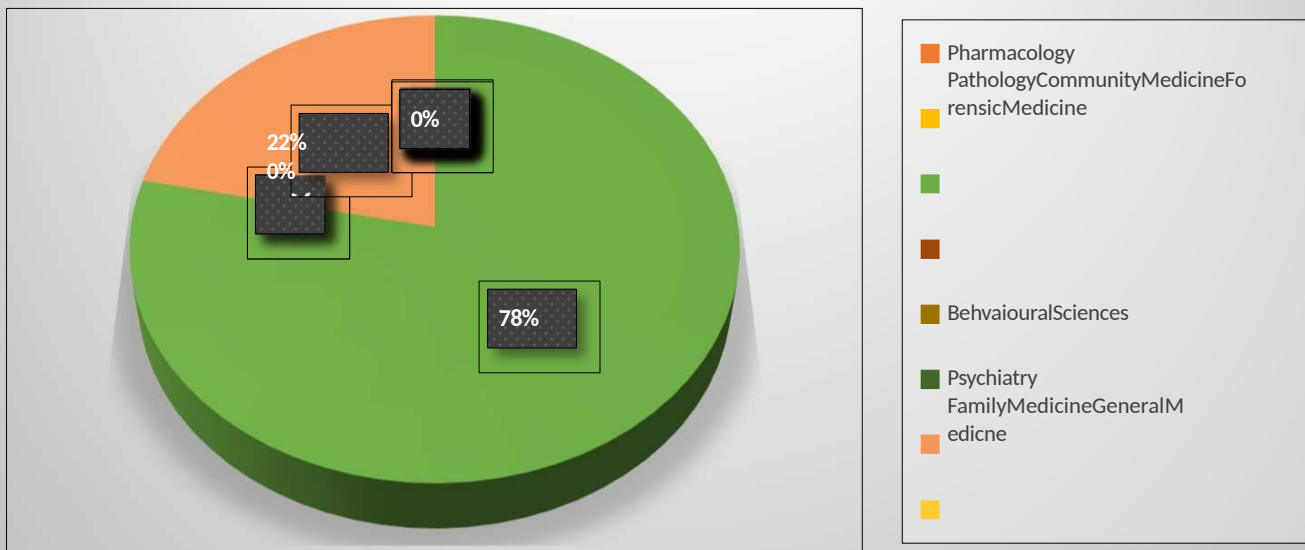
The background of the slide is a blurred photograph of a laboratory setting. On the left, a large microscope is visible. On the right, a hand in a blue nitrile glove is holding a test tube. In the foreground on the right, there is a test tube rack containing several test tubes, some of which are blue. The overall scene is brightly lit, typical of a laboratory environment.

Practicals

CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=10			
		DISCIPLINE	TOPIC	Teaching / learning	Assessment tools
CMFH1-CM-006	Assess the application of standards and KPIs in hospital lab settings and Blood banks	Pathology	MSDS Standard	SGD	OSPE/OSVE
	Assess the application of standards and Quality assurance indicators for imaging services	Radiology			
	Assess the application of standards and Quality assurance indicators for emergency services	Emergency and traumatology			
	Assess the application of standards and Quality assurance indicators for high-risk obstetrical services	Gynae&Obs			
	Assess the application of standards and Quality assurance indicators for anaesthetic services	Anesthesia			
	Assess the application of standards and Quality assurance indicators for surgical procedures	Surgery and Allied			
	Assess the application of standards and Quality assurance indicators for prescription and dispensing and administration of the drugs	Working Pharmacies			
	Assess the application of standards and Quality assurance indicators for patients' rights and education	Medical and Surgical OPDS			
	Collect data and transform into a report with recommendations	Community Medicine			

FOUNDATION

Community Medicine & Family Health-I





**Modular Integrated
Curriculum 2K23
MBBS Year-3**



MODULE-23
**Forensic Medicine
& Toxicology-III**



MODULERATIONALE

This module prepares the 3rd year MBBS students for the real-world challenges of crime scene investigation, medico-legal frameworks of Pakistan, and dealing with cases of poisoning. This module is critical in developing a holistic understanding of the intersection of the medical profession and law.

Curricular Out comes (PLOs)

The PLOs are articulated in view of the desirable competencies of four graduates. Following are the PLOs of MBBS Program desired to highlight the attributes amongst our graduates after their graduation

PLO-1 Demonstrate the ability to independently manage non-critical clinical problems (Knowledge, Skill)

PLO-2 Exhibit proficiency in life-saving procedures and the ability to assist in the management of critically ill patients. (Skill)

PLO-3 Adhere to ethical principles and display attributes such as honesty, integrity, and confidentiality. (Attitude)

PLO-4 Conduct research that contributes to the advancement of medical knowledge and brings relevance to healthcare practices (Knowledge, Skill)

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PLO-6 Exhibit comprehensive scientific knowledge in all professional activities. (Knowledge)

PLO-7 Demonstrate clear and efficient written and verbal communication skills to effectively communicate with patients, colleagues and other healthcare professionals. (Skills, Attitude)

PLO-8 Embrace a lifelong learning mind set to maintain expertise, keep up with advancements in medical practices and improve professional development.
(Knowledge, Skill)

Module outcome

- * Describe different types of Laws (PLO 6)
- * Define legal terms relevant to medical practice and explain procedures in the courts of law (PLO 6, PLO 7)
- * Explain legal aspects of medical practice (PLO 3, PLO 6)
- * Discuss the principles and methods of crime scene investigations (PLO 4, PLO 6)
- * Describe different analytical techniques to diagnose the nature of poison/drugs (PLO 6, PLO 8)

Themes

1. Pathology
2. Pharmacology
3. Behavioral Sciences

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Syllabus



Theory



THEORY					
LAW					
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 05			
		INTEGRATING DISCIPLINE	TOPIC	Teaching /learning	Assessment tools
For3-L-001	Define and describe different types of law.	Forensic Medicine	Law	LGIS	MCQs
For3-L-002	Describe different levels of courts of Pakistan and their judicial powers.		Hierarchy of courts	LGIS	MCQs
For3-L-003	Define different legal terms. Understand legal procedures and its presentation in the courts		Legal Terms and Procedures	LGIS	MCQs
For3-L-004	Define and describe types of evidence Describe the stages of presentation of evidence in the court of law. Explain the types of witness and its presentation in the court Differentiate between dying deposition declaration.		Evidence	LGIS	MCQs

For3-L-005	Describe general presumptions and exemptions in law to fix the criminal responsibility Define insanity, immaturity and intoxication. Define illusions, delusions and hallucinations and their types and medico legal significance. Differentiate between true and feigned insanity. Reproduce different sections of PPC dealing with these factors. Describe McNaughtan's rule, Durham's rule to test the criminal responsibility. Outline the fate of criminal responsibility- Unfit to plead, Diminished responsibility State testamentary capacity.		Forensic psychiatry and Criminal Responsibility	LGIS	MCQs
For3-L-006	Define consent; describe its types and its role in medical treatment, consent & its legal basis. Differentiate between valid and invalid consent. Outline standard procedure of informed consent. Explain the informed consent procedure from a patient before undergoing a major surgical procedure. Explain the consent protocol of a minor. Prepare a blanket consent form. Apply modified procedure of consent taking in special Circumstances.	Forensic medicine & Behavioral sciences	Consent	LGIS	MCQs
For3-L-007	Define medical bioethics. Describe principles of ethics. Explain different codes of medical ethics Reproduce duties of doctor towards patients, society and state. Outline the factors responsible for the deterioration of		Doctor patient relationship	LGIS	MCQs

	ethical values in medical practice.				
For3-L-008	Explain professional misconduct and its different types. Describe professional secrecy, privileged communication, medico legal significance of medical records.		Professional misconduct	LGIS	MCQs
For3-L-009	Differentiate between professional misconduct and professional negligence. Describe different types of professional negligence. Establish the extent of damage to patient in medical practice. Outline the laws dealing with negligence.		Professional Negligence	LGIS	MCQs
For3-L-010	Describe composition of PMDC Explain functions of body-supervision of standards of proficiency, maintenance of register, disciplinary powers. Compare composition of PMDC and PMCACT 2020 Describe objective of ALLOPATHIC SYSTEM 1962 Outline Medical and Dental Degree Ordinance 1982. Explain relevant sections of Drug Act 1976 and subsequent Amendments. Write Dangerous Drug Act 1930 and their different sections and rules.	Forensic Medicine	Laws dealing with medical practice	LGIS	MCQs

For3-L-011	Describe sections 2, 4, 5 and 6 of Hadood Ordinance 1979 Explain natural & un-natural sexual offences Reproduce criteria of legal marriage and dissolution of marriage.		Laws dealing with sexual offences Hadood Ordinance 1979, Women Protection Act 2006 Legal aspects of marriage, Muslim family law ordinance 1961.	LGIS	MCQs
For3-L-012	Define different terms used in the Qisas and Diyat Act relevant to hurt and Qatl Classify hurt and its subtypes as per Qisas and Diyat Act 1997 Classify QATL and its subtypes. Describe ISQAT-E-HAMLA and ISQAT-E-JANIN.		Law relevant to Hurt and killings Qisas and Diyat Act 1997	LGIS	MCQs
For3-L-013	Understand Mental Health Act 2001 Describe the composition and functions of the FEDERAL MENTAL HEALTH AUTHORITY. SEC 3 Explain composition and functions of BOARD OF VISITORS. SEC 4 Reproduce duration for period of detention assessment, treatment, urgent admission and emergency holding. SEC 9 Outline the procedure of admission of the patient in the psychiatric centre. SEC 10, 11 Explain holding of mentally disordered persons wandering in public places. SEC 19 Write the procedure of discharge from psychiatric centre SEC 20	Forensic Medicine	Law relevant to mental health	LGIS	MCQs

For3-L-014	Definechildabuse Explainepidemiology Describeclinicalfeatures Diagnoseacaseofchildabuse. Reproducemedicolegalsignificance. Applytheknowledgetorelevantsituationforproblem-solving	Forensic Medicine	Lawsrelevant to Domestic violence Childabuse	LGIS	MCQs	
For3-L-015	Describe the provisions for medical aid and treatment of injured persons to save their lives and protect their health during emergency. Describe the concept of the ancient law of torts		Injured Person (Medical Aid) Act 2004			
For3-L-016	Diagnose the injuries causing disablement and percentage loss of earning capacity.		Workman Compensation Act 1923 Employee social security ordinance 1965	LGIS	MCQs	
For3-L-017	Discuss the Health Commission Act		Health Commission Act	LGIS	MCQs	
For3-L-018	Describe the Consumer Protection Act in relation to Forensic Medicine		Consumer Protection Act	LGIS	MCQs	
For3-L-019	Define and classify euthanasia.		Euthanasia		LGIS	MCQs
	Describe different progonist and antagonist views.					
	Reproduce global laws relevant to euthanasia.					
	Discuss ethical and moral issues.					

For3-L-020	Define and classify suicide. Describe different views about suicide in society. Elaborate high risks groups. Explain different methods used Reproduce preventive measures. Discuss moral and ethical issues. Explain the psychopathology of suicide	Forensic Medicine	Suicide	LGIS	MCQs
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GENERAL TOXICOLOGY

CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=04			
		INTEGRATING DISCIPLINE	TOPIC	Teaching learning	Assessment tools
For3-Tox-001	Enlist & define various branches of Toxicology Define terms like drug, poison, dose, acute and chronic poisoning. Explain the therapeutic index and toxicity rating scale Quote and cite characteristics of homicidal, suicidal, and accidental poisons in home and environment Describe preventive measures of such poisonings	Forensic Medicine & Chemical Pathology	General Toxicology	LGIS	MCQs
For3-Tox-002	Differentiate between Drug and Poison Classify different poisons according to their mode of action Enumerate legal classification of poisons		Classification of Poisons		

For3-Tox-003	Describe routes of absorption, sites of metabolism and routes of excretion of poisons Enlistanddescribedifferentfactorsthatmodify thepatient'sresponsetoatoxicagent.		Factors affecting the absorption of poison	LGIS	MCQs
For3-Tox-004	Enlisttheclinical,ethical&statutorydutiesofadoctor whilemanagingacaseofpoisoning.		Dutiesof doctor	LGIS	MCQs

	Collection,preservation,storageanddispatchof samplesfortoxicologicalanalysis			
For3-Tox-005	Diagnoseacaseofpoisoninginliving Enlistvariousbedsidetestsusedfordiagnosisofpoisoning Interpretpost-mortemfindingsinasuspectedcaseof poisoning		Diagnosis of a Poisoning case	LGIS MCQs
For3-Tox-006	Applygeneralprinciplesintreatmentofpoisoning cases Prescribegeneraltreatmentmeasurestopoisoning cases Briefly describe the procedures to remove the unabsorbed poisons from the body Describe the procedure of Gastric lavage Enlist complications of Gastric Lavage Enumerate contra indications of gastric lavage procedure Describetherolesof ActivatedCharcoalinpoisoning patient Enlist indications & contraindications of administering cathartics in poisoning cases Classify antidotes according to their mode of action Define & classify Chelators Enlistpropertiesofidealchelatingagents Enlist&brieflydescribethemethodsofremovalofabsorbed poisons from the body		Treatmentof a poisoned patient	LGIS MCQs
For3-Tox-007	Enlist medico-legal implications of poisoning cases Comprehend different laws relating to poisons & drugs EnlistimportantrelevantpointsofRule8,Rule13& Rule 14 of the Dangerous Drug Act 1930 EnlistWHOrecommendationsbeingincorporatedin the Drug act 1976 EnlisttheWHOcriteriainforDrugDependence DefineNationalFormulary		Lawsrelated to Drugs & poisons	LGIS MCQs

For3-Tox-008	Explain, observe/perform the following analytical techniques: Spectrophotometric: Calorimetric Fluorometric Automation. Chromatographic: Thin layer chromatography (TLC). Gasliquidchromatography(GLC). High pressure liquid chromatography (HPLC). Gas liquid mass spectrometry (GL-MS). Competitive binding assay or immunoreactive assay: Radioimmunoassay (RIA). Enzymeimmunoassay(EIA). Fluorescent Polarization immunoassay (FPIA). Immunoturbidimetric assay.		Analytical techniques	LGIS	MCQs
SPECIALTOXICOLOGY					
CODE	SPECIFICLEARNINGOUTCOMES	TOTALHOURS=09			
		INTEGRATING DISCIPLINE	TOPIC	Teaching /learning	Assessment tools

For3-Tox-009	Classify corrosive poisons. Describe sources, physical and chemical properties. Explain mechanism of action. Write the fatal dose and fatal period. Describe the clinical features of the poison. Manage the patient clinically. Explain the autopsy findings. Describe medico-legal aspects. Define Vitriol age.	Forensic medicine	Corrosives Mineral acids- Sulfuric acid Nitric acid Hydrochloric acid Strong alkalis	LGIS	MCQs
	Write the fatal dose and fatal period. Apply the relevant section of Qisas and Diyat to the hurt caused by the poison. Manage the patient clinically.	Forensic medicine			
For3-Tox-010	Classify the corrosive poisons. Describe the clinical features and chemical properties. Explain mechanism of action.		Organic acid – Oxalic acid,		
	Explain mechanism of action. Differentiate between poisonous and non-poisonous snakes. Tabulate the differences between the elapids and vipers.		Irritant Poisons, Snakes, Elapids, Vipers	LGIS	MCQs
For3-Tox-011	Discuss the characteristics of snake venom. Describe the clinical feature of venomous snake bite. Explain clinical management of venomous snake bite. Discuss postmortem features and medico legal aspects of venomous snake bite.	Forensic medicine	Hydrophidate or sea-snakes		

For3-Tox-012	Describe the sources, properties, routes of absorption of the poison. Describe the fatal dose, clinical features of the poison. Outline the clinical management of such case. Enlist the samples to be collected, preserved and sent to chemical examiner for its detection. State the postmortem appearances of the poison. Explain the medico legal aspects of acute poisoning of the poison. Describe the clinical features of chronic poisoning of the poison. Explain the laboratory investigations to establish the diagnosis. Summarize the clinical management of a case of poisoning with irritant poisons Describe post mortem findings. Describe postmortem findings. Discuss medico legal aspects of chronic poisoning.	Forensic medicine & medicine	Irritant Metallic poisons – (Inorganic metallic origin- Arsenic, Mercury, Lead, Copper Nonmetallic irritant poisons- Phosphorus	LGIS	MCQs
For3-Tox-013	Describe the sources of exposure, mechanism of action and fatal dose and fatal period Explain clinical features of poisoning Summarize laboratory investigations and bed side test to confirm the diagnosis. Enlist the samples to be collected and sent to the chemical examiner. Outline the clinical management. Reproduce the autopsy findings. Discuss the medico legal aspects.		Aluminium Organophosphates, Carbamates, Chlorinated Hydrocarbon, Endrin Paraquat Phosphide	LGIS	MCQs

For3-Tox-014	Describe physical and chemical properties of the poison Describe different preparations of Cannabis Explain clinical features in acute and chronic poisoning, fatal dose and fatal period. Outline the clinical management of the poison. Enlist the sample to be collected and sent to the chemical examiner. Describe autopsy findings of the case. Explain the difference between the seeds of Dhatura and chilli. Outline medico legal aspects of acute and chronic poisoning.	Forensic medicine & medicine	Deli-riant Poisons – Dhatura Cannabis Sativa	LGIS	MCQs
For3-Tox-015	Classify barbiturates. Mention fatal dose and fatal period. Describe clinical features. Explain clinical management. Describe autopsy findings. Reproduce medico legal importance.	Pharmacology	Sedatives and Hypnotics – Barbiturates	LGIS	MCQs
For3-Tox-016	Classify alkaloids of opium. Mention the fatal dose and fatal period. Describe clinical features in acute and chronic poisoning. Describe the differential diagnosis of opium coma. List laboratory investigations and bedside test.		Somniferous/ Narcotics – (Opium - Morphine, Heroine Drugs of dependence)	LGIS	MCQs

	Explain clinical management. Explain autopsy findings Reproduce medico legal aspects Define drug dependence. Differentiate between drug dependence and drug habituation. Enlist drugs Describe criteria of drug dependence as per WHO criteria. of dependence.				
For3-Tox-017	Define Alcohols Describe different alcohol beverages with different alcohol concentrations. Explain toxicokinetics of alcohols Describe clinical features of acute ethyl alcohol poison. Correlate different clinical features with different BAC. Outline clinical management of poisoning Describe the laboratory investigation and samples to be sent to the chemical examiner. Describe protocol of examination of a drunken person. Describe autopsy findings. Explain medicolegal aspects. Describe clinical features of alcoholism. Explain clinical features of methanol toxicity Describe autopsy findings Explain medicolegal aspects of methanol poisoning.		Inebriants – Ethyl Alcohol / Methanol,	LGIS	MCQs

			CNS Stimulants Asphyxiants Gases Cocaine Carbon Monoxide Hydrocyanic acid Methyl Sulphide Phenylacetate Carbon Dioxide Hallucinogens LSD, ME SCALIN E, PHEN CYCLIDINE Tricyclic antidepressants Sheesha (Nicotine + Fruits & Herbal Flavors & Coal)		
For3-Tox-018 For3-Tox-019	Describe the sources of exposure of asphyxiants gases. State the mechanism of action. Explain clinical features of poisoning. Describe source of exposure Outline clinical management of cases of poisoning. Explain methods of inhalation. List sample to be collected and sent to chemical examiner. Describe clinical features List the diagnostic findings on X rays chest. Outline autopsy features Explain clinical management Explain medicolegal aspects of acute poisoning of asphyxiants gases. Outline medicolegal aspects of acute poisoning.	Forensic Medicine	LGIS LGIS	MCQs MCQs	
For3-Tox-020	Describe source of exposure Explain methods of inhalation. Reproduce clinical features List the diagnostic findings on X rays chest. Explain clinical management Discuss autopsy findings Outline medicolegal aspects of acute poisoning	Forensic Medicine	LGIS	MCQs	
For3-Tox-021	Describe source of exposure Describe clinical features List the diagnostic findings Explain clinical management Discuss autopsy findings		Black stone Paraphenylenediamine (PPD)	LGIS	MCQs

	Outline medicolegal aspects of acute poisoning.				
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FORENSIC SEROLOGY

CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 04			
		INTEGRATING DISCIPLINE	TOPIC	Teaching /learning	Assessment tools
For3-FS-001	Define Forensic Serology Describe the Medico-legal importance of Forensic Serology	Forensic Medicine	Definition & medico-legal importance of	LGIS	MCQs
For3-FS-002	Define Trace Evidence Classify Trace Evidence Describe Locard's Exchange Principle		Trace Evidence	LGIS	MCQs
For3-FS-003	Describe the protocol of scientific study (identification, collection, preservation, storage, labeling and transport to the concerned quarter) of trace evidentiary material.		Scientific study of trace evidentiary material	LGIS	MCQs
For3-FS-004	Enlist the medico-legal importance of different biological fluids & stains		Biological fluids	LGIS	MCQs
For3-FS-005	Outline principles of chain of custody and its medico-legal significance		chain of custody	LGIS	MCQs

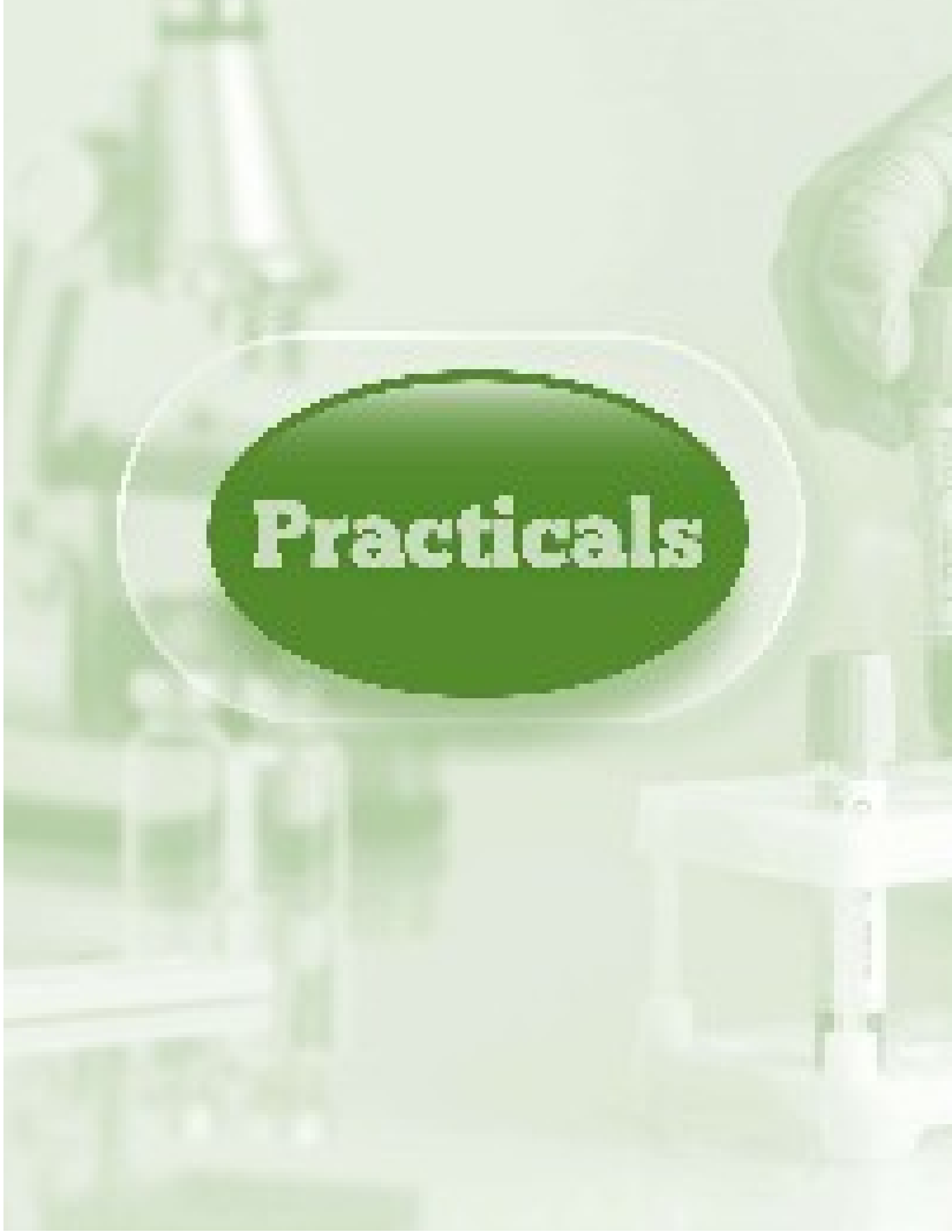
For3- FS-006	Describe the principles of chemical & physiochemical tests to determine the presence of blood in suspected stains Interpret the physical characteristics of a blood stain Describe the procedure of examination of blood stain comprising of physical, chemical, physiochemical & confirmatory tests Discuss the principle & importance of spectroscopic analysis of blood in the stain Describe microscopic, Immunological & enzymological methods for species determination of blood stain Explain different blood group systems Describe medico-legal importance of blood grouping Interpret the phenotype & genotype of different ABO blood groups	Pathology	Blood	LGIS	MCQs
For3- FS-007	Describe the scheme for examination of Seminal stain including physical, chemical, microscopic & serological tests including DNA Analysis. Describe the Medico-legal importance of seminal stain	Forensic Medicine	Semen	LGIS	MCQs

For3-FS-008	Describe the physical, chemical, serological & microscopic examination of hair Compare & contrast human and animal hair & hair like Structures as fibers. Enlist the Medico-legal significance of hair		Hair	LGIS	MCQs
For3-FS-009	Enumerate the tests for determination of other body fluids like Milk, saliva, urine, fecal matter Describe their medico-legal significance		Body Fluids	LGIS	MCQs
For3-FS-010	Explain the Structure of DNA. Describe DNA fingerprinting methods Outline the samples needed for DNA profiling, their collection, preservation, storage and dispatch to the analyst. Explain National DNA databank (CODIS). Discuss Ethical Issues relevant to DNA.		DNA	LGIS	MCQs

FORENSIC SCIENCES

CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 02			
		INTEGRATING DISCIPLINE	TOPIC	Teaching / Learning	Assessment tools
For3-FSc-001	Describe search patterns of scene of crime. Photograph the area/object of interest from scene of crime. Examine, collect, preserve and dispatch trace evidence and record his findings at scene of crime. Identify the stains of different biological fluids, collect, preserve, dispatch and record his findings Explain and demonstrate screening, chemical and microscopic analysis of biological stains. Describe forensic analysis of DNA.	Forensic medicine	Principles and methods of crime scene investigation	LGIS	MCQs

For3-FSc-002	Describe the examination of firearm and tool mark evidence	Forensic medicine	mark evidence		
For3-FSc-003	Explain the examination of broken glass		Examination of broken glass	LGIS	MCQs



Practicals

PRACTICAL/LABWORK

LAW

CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=03			
		INTEGRATING DISCIPLINE	TOPIC	Teaching /learning	Assessment tools
For3-L-021	Demonstrate legal procedures and its presentation in the courts	Forensic Medicine	Legal Terms and Procedures	SGD	OSPE/ OSVE
For3-L-022	Demonstrate presentation of different stages of evidence in the court of law.		Evidence	SGD	OSPE/ OSVE
	Distinguish between different types of witness and its presentation in the court				
For3-L-023	Demonstrate the recording of dying deposition and dying declaration step wise.		Dying deposition and declaration	SGD	OSPE/ OSVE

GENERAL TOXICOLOGY

CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=03			
		INTEGRATING DISCIPLINE	TOPIC	Teaching /learning	Assessment tools
For3-Tox-022	Assess a suspected patient of poisoning Collect, preserve & dispatch the routine viscera of a suspected poisoning case sent to chemical examiner Demonstrate the procedure of gastric lavage on a mannequin	Forensic Medicine	Poisoning	SGD	OSPE/ OSVE

SPECIAL TOXICOLOGY

CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=04			
		INTEGRATING DISCIPLINE	TOPIC	Teaching /learning	Assessment tools

For3-Tox-023	Identify corrosive poisons. Describe identifying features. Identify autopsy features of H_2SO_4 and HNO_3 Apply the relevant section of qisas and diyat act to the hurt caused by the poison	Forensic Medicine	Mineral acids- Sulfuric acid Nitric acid Hydrochloric acid Strong alkalis	SGD	OSPE/OSVE
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For3-Tox-024	Identify organic acid corrosive poisons Describe identifying features. Explain laboratory investigations Recognize autopsy findings.	Forensic Medicine	Organic acid – Oxalic acid, Carbolic acid, Hydrocyanic acid	SGD	OSPE/OSVE
For3-Tox-025	Label salient differentiating features of poisonous and non-Poisonous snakes. Identify snake bite wound. Apply the tourniquet above the site of bite of a patient.	Forensic Medicine	Irritant Animal Poisons (Snake s-Elapids Vipers Hydrophidate or sea-snakes	SGD	OSPE/OSVE
For3-Tox-026	Identify poison. Describe identifying features. Identify features of chronic arsenic poisoning Identify chronic lead poisoning on x rays Identify chronic lead poisoning (basophilic stippling) on blood cell slide. Collect sample to be sent to the chemical examiner.	Forensic Medicine	origin-Arsenic, Mercury, Lead, Copper Nonmetallic irritant poisons-Phosphorus	SGD	OSPE/OSVE
For3-Tox-027	Diagnose a case of insecticide poisoning Explain laboratory investigations Manage a case of insecticide poisoning Identify autopsy features Collect, preserve and dispatch the specimen to chemical examiner Perform bedside test for certain pesticides (aluminium phosphide	Forensic Medicine	Agricultural poisons – Organophosphates, Carbamates Chlorophosphidated	SGD	OSPE/OSVE

			Hydrocarbon, Endrin Paraquat Aluminum		
For3- Tox-028	Identify the poison Describe identifying features Diagnose a case of deliriant poisoning Explain lab investigation Manage the case Identify autopsy features	Forensic Medicine	Deliriant Poisons – Datura Cannabis Sativa	SGD	OSPE/ OSVE

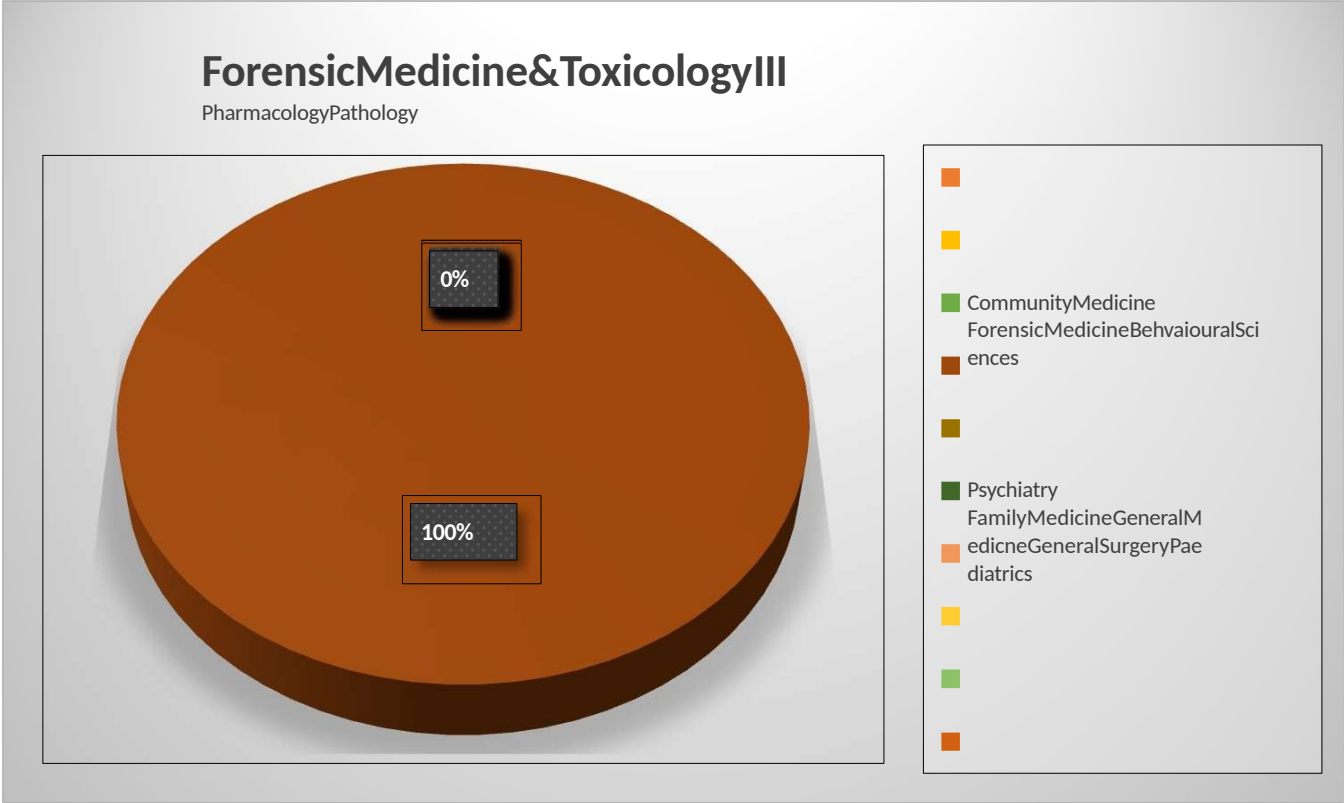
	Collect,preserveanddispatchthespecimensto chemicalexaminer				
For3- Tox-029	Diagnose a case of sedatives / hypnotic's toxicity Explain lab investigation Manage the caseIdentify autopsy features Collect,preserveanddispatchthespecimensto chemicalexaminer	Forensic Medicine	Sedativ esand Hypnot ics – Barbitu rates	SGD	OSPE/ OSVE
For3- Tox-030	Identify the poison (Opium / Poppy capsule) Describe identifying features Diagnose a case of narcotic poisoning Perform bedside test Explain lab investigations Recognize autopsy features Collect,preserveanddispatchthespecimensto chemicalexaminer	Forensic Medicine	Somnifer ous/ Narcotics – (Opium - Morphine, HeroinDr ugs of dependen ce	SGD	OSPE/ OSVE
For3- Tox-031	Diagnoseacaseof Acutealcohol Toxicity(Ethanol/ Methanol) Explain lab investigations Manage the case Conduct examination of a case of ethyl alcohol toxicity and certify findings with opinion Collect appropriate samples Recognizeautopsyfeatures Collect,preserveanddispatchthespecimensto chemicalexaminer	Forensic Medicine	Inebrian ts – EthylAlc ohol / Methan ol,	SGD	OSPE/ OSVE
For3- Tox-032	Diagnose a case ofAsphyxiant gases Explain lab investigations Manage the caseRecognize autopsy features Collect,preserveanddispatchthespecimensto chemicalexaminer	Forensic Medicine	Asph yxiant Gase s -Carb on Mono oxide, Hydro gen Sulph	SGD	OSPE/ OSVE

			ide, Carb onDio xide		
For3- Tox-033	Identifythepoison Describeidentifyingfeatures	Forensic Medicine	CNS Stim ulant – Coca ine	SGD	OSPE/ OSVE

	Diagnose the case Explain lab investigation Manage the case Recognizeautopsyfeatures Collect,preserveanddispatchthespecimenstochemical examiner		Tricyclic anti depress ants - Sheesh a (Nicotine + Fruits& Herbal Flavors &Coal)		
For3-Tox-034	Identify the poison Diagnose the case Explain lab investigation Manage the case Recognizeautopsyfeatures Collect, preserve, and dispatch the specimens to thechemical examiner	Forensic Medicine	- Volatil esubst ance abuse Gluesniffi ng Sniffing Huffed Bagged	SGD	OSPE/ OSVE
For3-Tox-035	Identify the poison Diagnose the case Explain lab investigation Manage the case Recognizeautopsyfeatures Collect, preserve, and dispatch the specimens to thechemical examiner	Forensic Medicine	Black stone Parapheny lene diamine(P PD)	SGD	OSPE/ OSVE
FORENSIC SEROLOGY					
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS=06			
		INTEGRATING DISCIPLINE	TOPIC	Teaching /learning	Assessment tools
For3-FS-011	CategorizedifferenttraceevidencetoBiological& Non-biologicalsources	Forensic Medicine	Trace evidence	SGD	OSPE/ OSVE

For3-FS-012	Identify, collect, preserve, label and dispatch trace evidentiary material to the concerned quarters.		The scientific study of trace evidentiary material	SGD	OSPE/OSVE
For3-FS-013	Interpret the physical characteristics of a suspected blood stain with naked eye & under UV lamp		Blood stain	SGD	OSPE/OSVE
For3-FS-014	Preserve & seal the clothes with suspected blood/seminal stain		Cloth examination	SGD	OSPE/OSVE
For3-FS-015	Perform Screening tests (Benzidine & Phenolphthalein/Kastle Mayer) on suspected blood stain	Forensic Medicine	Blood stain	SGD	OSPE/OSVE
	Identify the Takayama (Haemochromogen) & Teichmann (Haemin) Crystals under the microscope				
	Identify different absorption bands of hemoglobin & its derivatives with spectroscopy				
	Perform forward & reverse blood grouping techniques & interpret the results				
	Differentiate various species (human, hen, goat and camel) with the help of microscopic examination of RBCs				
For3-FS-016	Identify & confirm the presence of semen with the help of microscopic examination		Semen	SGD	OSPE/OSVE
For3-FS-017	Prepare the slide of hair & Differentiate Human & Animal Hair under the microscope		Hair	SGD	OSPE/OSVE
	Differentiate human/animal hair from cotton fiber,				

	polyesterfiber				
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Tentative Timetable Of Block # 9



ISLAM MEDICAL COLLEGE, SIALKOT Block 9 Training Program 3rd Year MBBS

3 rd year MBBS -2026								
28 th September to 2 nd October 2026 1 st week								
Day	8:00-8:50	8:50-9:40	9:40-11:30	11:30-12:10	12:10-1:10	1:10-1:40	1:40-2:20	2:20-3:00
Monday 28.09.2026	Forensic Medicine LGIS	Community Medicine LGIS	Clinical Ward	Practical Pharmacology A Pathology B Forensic Medicine C	SGD Pharmacology A Pathology B Forensic Medicine C	B R E A K	Community Medicine LGIS	Pathology LGIS
Tuesday 29.09.2026	Pharmacology LGIS	Forensic Medicine LGIS	Clinical Ward	Practical Pharmacology B Pathology C Forensic Medicine A	SGD Pharmacology B Pathology C Forensic Medicine A		Community Medicine LGIS	Medicine LGIS
Wednesday 30.09.2026	Forensic Medicine LGIS	Pharmacology LGIS	Clinical Ward	Practical Pharmacology C Pathology A Forensic Medicine B	SGD Pharmacology C Pathology A Forensic Medicine B		Community Medicine LGIS	Pathology LGIS
Thursday 01.10.2026	Pathology LGIS	Pharmacology LGIS	Clinical Ward	11:30-12:10 DSL Pharmacology	12:10-1:10 Community Medicine LGIS		Medicine LGIS	Surgery LGIS
Friday 02.10.2026	CBL Integrated	Community Medicine LGIS	Clinical Ward	Pearls LGIS	Surgery LGIS	Friday 1:10-1:40	Medicine LGIS	CFRC/ SKILL LAB LGIS

Module Lead _____ HOD Medical Education _____ HOD Students Affair _____ Principal IMC _____



ISLAM MEDICAL COLLEGE, SIALKOT
Block 9 Training Program
3rd Year MBBS

3 rd year MBBS -2026								
5 TH October to 9 th October 2026 2 nd week								
Day	8:00-8:50	8:50-9:40	9:40-11:30	11:30-12:10	12:10-1:10	1:10-1:40	1:40-2:20	2:20-3:00
Monday 05.10.2026	Forensic Medicine LGIS	Community Medicine LGIS	Clinical Ward	Practical Pharmacology A Pathology B Forensic Medicine C	SGD Pharmacology A Pathology B Forensic Medicine C	B R E A K	Community Medicine LGIS	Pathology LGIS
Tuesday 06.10.2026	Pharmacology LGIS	Forensic Medicine LGIS	Clinical Ward	Practical Pharmacology B Pathology C Forensic Medicine A	SGD Pharmacology B Pathology C Forensic Medicine A		Community Medicine LGIS	Medicine LGIS
Wednesday 07.10.2026	Forensic Medicine LGIS	Pharmacology LGIS	Clinical Ward	Practical Pharmacology C Pathology A Forensic Medicine B	SGD Pharmacology C Pathology A Forensic Medicine B		Community Medicine LGIS	Pathology LGIS
Thursday 08.10.2026	Pathology LGIS	Pharmacology LGIS	Clinical Ward	11:30-12-10 DSL Pharmacology	12:10-1:10 Community Medicine LGIS		Medicine LGIS	Surgery LGIS
Friday 09.10.2026	Pathology LGIS	Community Medicine LGIS	Clinical Ward	Pearls LGIS	Surgery LGIS	Friday 1:10-1:40	Medicine LGIS	CFRC/ SKILL LAB LGIS

Module Lead _____ HOD Medical Education _____ HOD Students Affair _____ Principal IMC _____



ISLAM MEDICAL COLLEGE, SIALKOT
Block 9 Training Program
3rd Year MBBS

3 rd year MBBS -2026								
12 th October to 16 th October 2026 3 rd week								
Day	8:00-8:50	8:50-9:40	9:40-11:30	11:30-12:10	12:10-1:10	1:10-1:40	1:40-2:20	2:20-3:00
Monday 12.10.2026	Forensic Medicine LGIS	Community Medicine LGIS	Clinical Ward	Practical Pharmacology A Pathology B Forensic Medicine C	SGD Pharmacology A Pathology B Forensic Medicine C	B R E A K	Community Medicine LGIS	Pathology LGIS
Tuesday 13.10.2026	Pharmacology LGIS	Forensic Medicine LGIS	Clinical Ward	Practical Pharmacology B Pathology C Forensic Medicine A	SGD Pharmacology B Pathology C Forensic Medicine A		Community Medicine LGIS	Medicine LGIS
Wednesday 14.10.2026	Forensic Medicine LGIS	Pharmacology LGIS	Clinical Ward	Practical Pharmacology C Pathology A Forensic Medicine B	SGD Pharmacology C Pathology A Forensic Medicine B		Community Medicine LGIS	Pathology LGIS
Thursday 15.10.2026	Pathology LGIS	Pharmacology LGIS	Clinical Ward	11:30-12:10 DSL Pharmacology	12:10-1:10 Community Medicine LGIS		Medicine LGIS	Surgery LGIS
Friday 16.10.2026	Pathology LGIS	Community Medicine LGIS	Clinical Ward	Pearls LGIS	Surgery LGIS	Friday 1:10-1:40	Medicine LGIS	CFRC/ SKILL LAB LGIS

Module Lead _____ HOD Medical Education _____ HOD Students Affair _____ Principal IMC _____



ISLAM MEDICAL COLLEGE, SIALKOT
Block 9 Training Program
3rd Year MBBS

3 rd year MBBS -2026								
19 th October to 23 rd October 2026 4 th week								
Day	8:00-8:50	8:50-9:40	9:40-11:30	11:30-12:10	12:10-1:10	1:10-1:40	1:40-2:20	2:20-3:00
Monday 19.10.2026	Forensic Medicine LGIS	Community Medicine LGIS	Clinical Ward	Practical Pharmacology A Pathology B Forensic Medicine C	SGD Pharmacology A Pathology B Forensic Medicine C	B R E A K	Community Medicine LGIS	Pathology LGIS
Tuesday 20.10.2026	Pharmacology LGIS	Forensic Medicine LGIS	Clinical Ward	Practical Pharmacology B Pathology C Forensic Medicine A	SGD Pharmacology B Pathology C Forensic Medicine A		Community Medicine LGIS	Medicine LGIS
Wednesday 21.10.2026	Forensic Medicine LGIS	Pharmacology LGIS	Clinical Ward	Practical Pharmacology C Pathology A Forensic Medicine B	SGD Pharmacology C Pathology A Forensic Medicine B		Community Medicine LGIS	Pathology LGIS
Thursday 22.10.2026	Pathology LGIS	Pharmacology LGIS	Clinical Ward	11:30-12-10 DSL Pharmacology	12:10-1:10 Community Medicine LGIS		Medicine LGIS	Surgery LGIS
Friday 23.10.2026	Pathology LGIS	Community Medicine LGIS	Clinical Ward	Pearls LGIS	Surgery LGIS	Friday 1:10-1:40	Medicine LGIS	CFRC/ SKILL LAB LGIS

Module Lead _____ HOD Medical Education _____ HOD Students Affair _____ Principal IMC _____



ISLAM MEDICAL COLLEGE, SIALKOT
Block 9 Training Program
3rd Year MBBS

3 rd year MBBS -2026								
26 th October to 30 th October 2026 5 th week								
Day	8:00-8:50	8:50-9:40	9:40-11:30	11:30-12:10	12:10-1:10	1:10-1:40	1:40-2:20	2:20-3:00
Monday 26.10.2026	Forensic Medicine LGIS	Community Medicine LGIS	Clinical Ward	Practical Pharmacology A Pathology B Forensic Medicine C	SGD Pharmacology A Pathology B Forensic Medicine C	B R E A K	Community Medicine LGIS	Pathology LGIS
Tuesday 27.10.2026	Pharmacology LGIS	Forensic Medicine LGIS	Clinical Ward	Practical Pharmacology B Pathology C Forensic Medicine A	SGD Pharmacology B Pathology C Forensic Medicine A		Community Medicine LGIS	Medicine LGIS
Wednesday 28.10.2026	Forensic Medicine LGIS	Pharmacology LGIS	Clinical Ward	Practical Pharmacology C Pathology A Forensic Medicine B	SGD Pharmacology C Pathology A Forensic Medicine B		Community Medicine LGIS	Pathology LGIS
Thursday 29.10.2026	Pathology LGIS	Pharmacology LGIS	Clinical Ward	11:30-12-10 DSL Pharmacology	12:10-1:10 Community Medicine LGIS		Medicine LGIS	Surgery LGIS
Friday 30.10.2026	Pathology LGIS	Community Medicine LGIS	Clinical Ward	Pearls LGIS	Surgery LGIS	Friday 1:10-1:40	CFRC/ SKILL LAB LGIS	Medicine LGIS

Module Lead _____ HOD Medical Education _____ HOD Students Affair _____ Principal IMC _____



ISLAM MEDICAL COLLEGE, SIALKOT
Block 9 Training Program
3rd Year MBBS

3 rd year MBBS -2026								
2 nd November to 6 th November 2026 6 st week								
Day	8:00-8:50	8:50-9:40	9:40-11:30	11:30-12:10	12:10-1:10	1:10-1:40	1:40-2:20	2:20-3:00
Monday 02.11.2026	Forensic Medicine LGIS	Community Medicine LGIS	Clinical Ward	Practical Pharmacology A Pathology B Forensic Medicine C	SGD Pharmacology A Pathology B Forensic Medicine C	B R E A K	Community Medicine LGIS	Pathology LGIS
Tuesday 03.11.2026	Pharmacology LGIS	Forensic Medicine LGIS	Clinical Ward	Practical Pharmacology B Pathology C Forensic Medicine A	SGD Pharmacology B Pathology C Forensic Medicine A		Community Medicine LGIS	Medicine LGIS
Wednesday 04.11.2026	Forensic Medicine LGIS	Pharmacology LGIS	Clinical Ward	Practical Pharmacology C Pathology A Forensic Medicine B	SGD Pharmacology C Pathology A Forensic Medicine B		Community Medicine LGIS	Pathology LGIS
Thursday 05.11.2026	Pathology LGIS	Pharmacology LGIS	Clinical Ward	11:30-12:10 DSL Pharmacology	12:10-1:10 Community Medicine LGIS		Medicine LGIS	Surgery LGIS
Friday 06.11.2026	Pathology LGIS	Community Medicine LGIS	Clinical Ward	Pearls LGIS	Surgery LGIS	Friday 1:10-1:40	CFRC/ SKILL LAB LGIS	Medicine LGIS

Module Lead _____ HOD Medical Education _____ HOD Students Affair _____ Principal IMC _____



ISLAM MEDICAL COLLEGE, SIALKOT
Block 9 Training Program
3rd Year MBBS

3 rd year MBBS -2026								
9 th November to 13 th November 2026 7 st week								
Day	8:00-8:50	8:50-9:40	9:40-11:30	11:30-12:10	12:10-1:10	1:10-1:40	1:40-2:20	2:20-3:00
Monday 09.11.2026	Forensic Medicine LGIS	Community Medicine LGIS	Clinical Ward	Practical Pharmacology A Pathology B Forensic Medicine C	SGD Pharmacology A Pathology B Forensic Medicine C	B R E A K	Community Medicine LGIS	Pathology LGIS
Tuesday 10.11.2026	Pharmacology LGIS	Forensic Medicine LGIS	Clinical Ward	Practical Pharmacology B Pathology C Forensic Medicine A	SGD Pharmacology B Pathology C Forensic Medicine A		Community Medicine LGIS	Medicine LGIS
Wednesday 11.11.2026	Forensic Medicine LGIS	Pharmacology LGIS	Clinical Ward	Practical Pharmacology C Pathology A Forensic Medicine B	SGD Pharmacology C Pathology A Forensic Medicine B		Community Medicine LGIS	Pathology LGIS
Thursday 12.11.2026	Pathology LGIS	Pharmacology LGIS	Clinical Ward	11:30-12-10 DSL Pharmacology	12:10-1:10 Community Medicine LGIS		Medicine LGIS	Surgery LGIS
Friday 13.11.2026	Pathology LGIS	Community Medicine LGIS	Clinical Ward	Pearls LGIS	Surgery LGIS	Friday 1:10-1:40	CFRC/ SKILL LAB LGIS	Medicine LGIS

Module Lead _____ HOD Medical Education _____ HOD Students Affair _____ Principal IMC _____



ISLAM MEDICAL COLLEGE, SIALKOT
Block 9 Training Program
3rd Year MBBS

3 rd year MBBS -2026								
16 th November to 20 th November 2026 8 st week								
Day	8:00-8:50	8:50-9:40	9:40-11:30	11:30-12:10	12:10-1:10	1:10-1:40	1:40-2:20	2:20-3:00
Monday 16.11.2026	Forensic Medicine LGIS	Community Medicine LGIS	Clinical Ward	Practical Pharmacology A Pathology B Forensic Medicine C	SGD Pharmacology A Pathology B Forensic Medicine C	B R E A K	Community Medicine LGIS	Pathology LGIS
Tuesday 17.11.2026	Pharmacology LGIS	Forensic Medicine LGIS	Clinical Ward	Practical Pharmacology B Pathology C Forensic Medicine A	SGD Pharmacology B Pathology C Forensic Medicine A		Community Medicine LGIS	Medicine LGIS
Wednesday 18.11.2026	Forensic Medicine LGIS	Pharmacology LGIS	Clinical Ward	Practical Pharmacology C Pathology A Forensic Medicine B	SGD Pharmacology C Pathology A Forensic Medicine B		Community Medicine LGIS	Pathology LGIS
Thursday 19.11.2026	Pathology LGIS	Pharmacology LGIS	Clinical Ward	11:30-12:10 DSL Pharmacology	12:10-1:10 Community Medicine LGIS		Medicine LGIS	Surgery LGIS
Friday 20.11.2026	Pathology LGIS	Community Medicine LGIS	Clinical Ward	Pearls LGIS	Surgery LGIS	Friday 1:10-1:40	CFRC/SKILL LAB LGIS	Medicine LGIS

Module Lead _____ HOD Medical Education _____ HOD Students Affair _____ Principal IMC _____



ISLAM MEDICAL COLLEGE, SIALKOT
Block 9 Training Program
3rd Year MBBS



3 rd year MBBS -2026								
23 rd November to 27 th November 2026 9 st week								
Day	8:00-8:50	8:50-9:40	9:40-11:30	11:30-12:10	12:10-1:10	1:10-1:40	1:40-2:20	2:20-3:00
Monday 23.11.2026	Forensic Medicine LGIS	Community Medicine LGIS	Clinical Ward	Practical Pharmacology A Pathology B Forensic Medicine C	SGD Pharmacology A Pathology B Forensic Medicine C	B R E A K	Community Medicine LGIS	Pathology LGIS
Tuesday 24.11.2026	Pharmacology LGIS	Forensic Medicine LGIS	Clinical Ward	Practical Pharmacology B Pathology C Forensic Medicine A	SGD Pharmacology B Pathology C Forensic Medicine A		Community Medicine LGIS	Medicine LGIS
Wednesday 25.11.2026	Forensic Medicine LGIS	Pharmacology LGIS	Clinical Ward	Practical Pharmacology C Pathology A Forensic Medicine B	SGD Pharmacology C Pathology A Forensic Medicine B		Community Medicine LGIS	Pathology LGIS
Thursday 26.11.2026	Pathology LGIS	Pharmacology LGIS	Clinical Ward	11:30-12:10	12:10-1:10		Medicine LGIS	Surgery LGIS
				DSL Pharmacology	Community Medicine LGIS			
Friday 27.11.2026	Pathology LGIS	Community Medicine LGIS	Clinical Ward	Pearls LGIS	Surgery LGIS	Friday 1:10-1:40	CFRC/ SKILL LAB LGIS	Medicine LGIS

Module Lead _____ HOD Medical Education _____ HOD Students Affair _____ Principal IMC _____



ISLAM MEDICAL COLLEGE, SIALKOT
Block 9 Training Program
3rd Year MBBS

3 rd year MBBS -2026								
30 th November to 4 th December 2026 10 st week								
Day	8:00-8:50	8:50-9:40	9:40-11:30	11:30-12:10	12:10-1:10	1:10-1:40	1:40-2:20	2:20-3:00
Monday 30.11.2026	Forensic Medicine LGIS	Community Medicine LGIS	Clinical Ward	Practical Pharmacology A Pathology B Forensic Medicine C	SGD Pharmacology A Pathology B Forensic Medicine C	B R E A K	Community Medicine LGIS	Pathology LGIS
Tuesday 01.12.2026	Pharmacology LGIS	Forensic Medicine LGIS	Clinical Ward	Practical Pharmacology B Pathology C Forensic Medicine A	SGD Pharmacology B Pathology C Forensic Medicine A		Community Medicine LGIS	Medicine LGIS
Wednesday 02.12.2026	Forensic Medicine LGIS	Pharmacology LGIS	Clinical Ward	Practical Pharmacology C Pathology A Forensic Medicine B	SGD Pharmacology C Pathology A Forensic Medicine B		Community Medicine LGIS	Pathology LGIS
Thursday 03.12.2026	Pathology LGIS	Pharmacology LGIS	Clinical Ward	11:30-12:10 DSL Pharmacology	12:10-1:10 Community Medicine LGIS		Medicine LGIS	Surgery LGIS
Friday 04.12.2026	Pathology LGIS	Community Medicine LGIS	Clinical Ward	Pearls LGIS	Surgery LGIS	Friday 1:10-1:40	CFRC/ SKILL LAB LGIS	Medicine LGIS

Module Lead _____ HOD Medical Education _____ HOD Students Affair _____ Principal IMC _____



ISLAM MEDICAL COLLEGE, SIALKOT
Block 9 Training Program
3rd Year MBBS

3 rd year MBBS -2026								
7 th December to 11 th December 2026 11 st week								
Day	8:00-8:50	8:50-9:40	9:40-11:30	11:30-12:10	12:10-1:10	1:10-1:40	1:40-2:20	2:20-3:00
Monday 07.12.2026	Forensic Medicine LGIS	Community Medicine LGIS	Clinical Ward	Practical Pharmacology A Pathology B Forensic Medicine C	SGD Pharmacology A Pathology B Forensic Medicine C	B R E A K	Community Medicine LGIS	Pathology LGIS
Tuesday 08.12.2026	Pharmacology LGIS	Forensic Medicine LGIS	Clinical Ward	Practical Pharmacology B Pathology C Forensic Medicine A	SGD Pharmacology B Pathology C Forensic Medicine A		Community Medicine LGIS	Medicine LGIS
Wednesday 09.12.2026	Forensic Medicine LGIS	Pharmacology LGIS	Clinical Ward	Practical Pharmacology C Pathology A Forensic Medicine B	SGD Pharmacology C Pathology A Forensic Medicine B		Community Medicine LGIS	Pathology LGIS
Thursday 10.12.2026	Pathology LGIS	Pharmacology LGIS	Clinical Ward	11:30-12-10	12:10-1:10		Medicine LGIS	Surgery LGIS
				DSL Pharmacology	Community Medicine LGIS			
Friday 11.12.2026	Pathology LGIS	Community Medicine LGIS	Clinical Ward	Pearls LGIS	Surgery LGIS	Friday 1:10-1:40	CFRC/ SKILL LAB LGIS	Medicine LGIS

Module Lead _____ HOD Medical Education _____ HOD Students Affair _____ Principal IMC _____

ASSESSMENT TOOLS

Students will be assessed by the following methods

1. *Weekly Assessments*

Assessments will be conducted every Monday covering all the lectures conducted in the previous week consisting of MCQs only.

2. *Assignments/CBLs:*

Assignments/CBLs will be given monthly.

3. *End of Module Exam:*

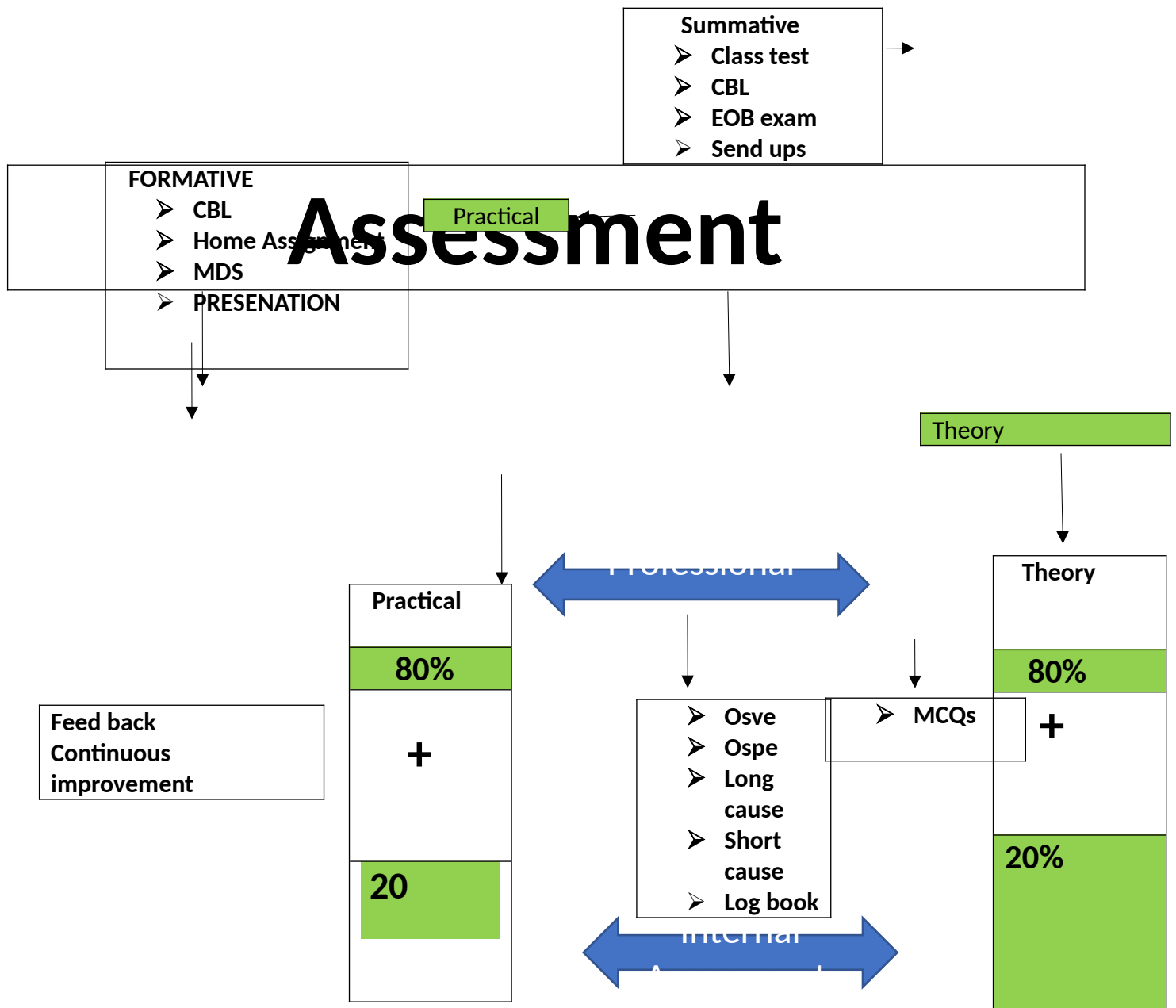
At the end of Foundation and H&L module, end of module exam covering all the LOs of the module consisting of MCQs would be conducted.

4. *Block Exam:*

At the end of block, an exam will be conducted comprising of theory (MCQs) and practical/OSPE content.

5. *Departmental quizzes, presentations & group projects:*

Above mentioned can be the assessment tools for different departments on their will.



Subject	Written Exam		Oral/Practical /Clinical Exam			
	MCQ (1 mark)	Marks	OSPE /OSCE (8 marks each observed)	OSCE (10marks each observed)	OSVE (14marks each observed)	Marks
Pharmacology	19	19	02	-	01	30
Pathology	22	22	02	-	-	16
Family Medicine	05	05	-	-	-	-
Community Medicine	42	42	03	-	01	38
Surgery	15	15	-	-	-	-
Medicine	15	15	01	-	-	08
Forensic	20	20	02	-	01	30
Behavioral Sciences	02	02	-	-	-	-
Patient Safety	-	-	-	-	-	-
CFRC	-	-	01	-	-	08
PERLs+ Expository	-	-	-	01	-	10
Total	140	140	11 Station 08 = 88	01stationsx 10=10	03stationsx 14=42	140



Anatomy

- Snell's Clinical Anatomy 10th ed.
- Langman's Medical Embryology 12th ed
- Medical Histology by Laiq Hussain Siddiqui 8th edition.
- General Anatomy by Laiq Hussain Siddiqui 6th edition.

Biochemistry

- Harpers Illustrated Biochemistry (latest edition). Rodwell. V. W. McGraw Hill publishers.
- Lippincott Illustrated Review (latest edition). Kluwer. W.
- Essentials of Medical Biochemistry vol 1 & 2 by Mushtaq Ahmed.

Pathology

- Vinary Kumar, Abul K. Abbas and Nelson Fausto Robbins and Cotran, Pathologic basis of disease. WB Saunders.
- Robbins and Cotran Pathological Basis of Disease. Kumar, V., Abbas, A. and Aster, J. Latest Edition
- Richard Mitchell, Vinary Kumar, Abul K. Abbas and Nelson Fausto Robbins and Cotran, Pocket Companion to Pathologic basis of diseases, Saunders Harcourt.
- Walter and Israel. General Pathology. Churchill Livingstone.
- Robbins & Kumar, Medical Microbiology and Immunology Levinson.

General Medicine

- Principles and Practice of Medicine by Davidson (latest edition)
- Clinical Medicine by Parveen J Kumar & Michael Clark
- Oxford Handbook of Medicine
- Macleod's Clinical Examination book
- Medicine and Toxicology by C. K. Parikh
- Hutchison's Clinical Methods by Michael Swash. 21st edition

Pharmacology And Therapeutics

- Katzung and Trevor's Pharmacology: Examination and Board Review- 15th Edition
- Basic and Clinical Pharmacology by Bertram G Katzung (case scenarios only)- 16th Edition-
- Current Medical Diagnosis and Treatment- reference book- Edition- 2024
- Basic and Clinical Pharmacology by Bertram G Katzung (case scenarios only)- 15th Edition
- Basic and Clinical Pharmacology by Katzung, McGraw-Hill. 16th Edition.

- Pharmacology by Champe and Harvey, Lippincott Williams & Wilkins 8th Edition.
- Katzung Basic and Clinical pharmacology, Lippincott Illustrated reviews.
- Clinical Pathology Interpretations by A.H. Nagi

Behavioural Sciences

- Handbook of Behavioural Sciences by Prof. Mowdat H. Rana, 3rd Edition
- Medical and Psychosocial aspects of chronic illness and disability 6th edition by Donna R. Falvo and Beverly E. Holland,
- Integrating behavioral sciences in healthcare, Asma Humayun, 2003, 1st edition

Community medicine

- Parks Textbook of Preventive and Social Medicine. K. Park
- Public Health and Community Medicine by Ilyas Ansari
- MSDS manual of Government of Punjab
- Textbook of Community Medicine by Park J.E. Latest Edition

Surgery

Bailey & Love's Short Practice of Surgery (latest edition)

Browse's Introduction to the Symptoms & Signs of Surgical Disease 4th Edition

Bailey & Love Short Practice of Surgery, Clinical Surgery pearls by Dayananda Babu RACS for Surgical Audits.

Patient Safety

Patient Safety Curriculum Guide: Multi Professional Guide

Microbiology

Levinson's review of Microbiology

Medical Microbiology and Immunology by Levinson and Jawetz,

Pediatrics Medicine

Nelson Textbook of Pediatrics

Basis of Pediatrics by Pervez Akbar Khan

Gynecology

Gynecology by Ten Teachers

Infection Control National Guidelines Infection Prevention and control, National Institute of Health Pakistan

National Guidelines Infection Prevention and control, National Institute of Health Pakistan

Biosafety

- BiosafetyinMicrobiologicalandBiomedicalLaboratories,6thEdition(CDC,USA)
- WHOLaboratoryBiosafetyManual,FourthEdition,AndAssociatedMonographs
- WHO safe management of wastes from healthcare facilitieschapter 7 -8 page 77-99, 105-125)

Familymedicine

- OxfordHandbookofGeneralPractice,5thEdition

Orthopedics

- Apley and Solomon's System of Orthopaedics and Trauma by Ashley Blom (Editor)

Rheumatology

- Davidson's Principles and Practice of Medicine
- Clinical Medicine by Parveen J. Kumar & Michael Clark
- Hutchison's Clinical Methods by Michael Swash

Radiology

- Aids to Radiological Differential Diagnosis by Chapman S. and Nakielny R. 4th edition. Elsevier Science Limited; 2003.

Forensic Medicine

- Knight's Forensic Pathology by Barnard Knight 3rd edition
- G. Principles and Practice of Forensic Medicine by Prof. Nasib R. Awan, 2nd edition
- Forensic DNA Typing – 2nd Edition, Author: John M. Butler
- Parikh's Text book of Medical Jurisprudence, Forensic Medicine and Toxicology by C.K. Parikh 6th Ed., CBS Publisher.
- Gun Shot Wounds 2nd edition by V.J. De Maio
- Knight B. Simpson's Forensic Medicine.
- Knight and Pekka. Principles of Forensic Medicine

Forensic Pathology

- Forensic pathology 2nd edition by V.J. De Maio CRC press Boca Raton London New York

Washington DC

Toxicology

- Principles of clinical toxicology 3rd edition Thomas Gossel CRC press Taylor and Francis group

Forensic Sciences

- Fundamentals of Forensic Science-3rd Edition: Author: Max M Houck, Jay A. Siegel
- Text Book of forensic medicine and toxicology Principles and Practice 5th edition by Krishan Vig

Biomedical ethics

- Principles of Biomedical ethics, 8th edition by Tom. L. Beauchamp, James F. Childress.

Evidence Based Medicine

- Databases for the latest articles/ manuscripts
- Clinical Practice Guidelines- local and international- (within last 3 years)
- Books (Latest edition- within last 5 years)

Pediatrics

- Nelson's Book of Pediatrics 22nd edition Illustrated book of Pediatrics, Perwaiz Akbar textbook pediatrics medicine

Islamiyat

- Standard Islamiyat (compulsory) for B.A, B.Sc, MA, M.Sc, M.Phil, Prof. M. Sharif Uddin
- Ilmi Islamiyat (compulsory) for BA, BSc & equivalent.
- Ilmi Islamiyat (compulsory) for BA, BSc & equivalent.



04

Section

VOLUME:03

C-FRC



Clerkships

Rotation

Foundation

-FRC



Modular Integrated Curriculum 2K23



YEAR-03



SECTION A

BLOCK-09	
CFRCCode	Task/Skill
CFRC3-047	Historytaking-chestpain Takehistory of a patient with chest pain and suggest differential diagnoses with emphasis on ischemic heart disease, pulmonary, and gastrointestinal causes.
CFRC3-048	Historytaking-palpitations Takehistory of a patient with palpitations and suggest differential diagnoses with emphasis on hypertension, heart failure, and ischemic heart disease.
CFRC3-049	Historytaking-dyspnea Takehistory of a patient with dyspnea and correlate with cardiac and respiratory causes.
CFRC3-050	Inspectionofprecordium Inspect the precordium for visible pulsations, scars, or deformities.
CFRC3-051	MeasurementofJVP Measure jugular venous pressure (JVP) accurately and interpret findings.
CFRC3-052	Apexbeatpalpation Palpate the apex beat for location, character, and displacement.
CFRC3-053	Palpationofperipheralpulses Palpate peripheral pulses (radial, carotid, femoral, dorsalis pedis) and assess rate, rhythm, and volume.
CFRC3-054	Auscultationofprecordium Auscultate the precordium to identify normal heart sounds, added sounds, and murmurs.
CFRC3-055	ECGconduction Performandinterpret electrocardiography (ECG) independently according to standard protocol.

CFRC3-056	ECG interpretation Identify ST-segment and T-wave abnormalities on an ECG and correlate them with ischemia, myocardial infarction, and electrolyte disturbances.
CFRC3-057	Blood pressure measurement and interpretation

	Measure blood pressure accurately using a sphygmomanometer and interpret normal and abnormal readings.
CFRC3-058	Signs of heart failure Identify and report signs of heart failure such as pedal edema, raised JVP, hepatomegaly, and basal crepitation.
CFRC3-059	History taking-cough, sputum, dyspnea, wheeze Perform focused history taking for cough, sputum production, dyspnea, and wheezing, and suggest differential diagnoses focusing on asthma, COPD, tuberculosis, and pneumonia.
CFRC3-060	Chest inspection Inspect the chest for shape, symmetry, deformities, and movement.
CFRC3-061	Chest palpation Palpate the chest wall to assess expansion, tracheal position, and tactile fremitus.
CFRC3-062	Chest percussion Percuss the chest to assess resonance and dullness and identify areas of consolidation or effusion.
CFRC3-063	Chest auscultation Auscultate the lungstoidentify normal breath sounds, added sounds (crackles, wheeze), and differentiate obstructive and restrictive patterns.
CFRC3-064	Respiratory rate interpretation Measure respiratory rate and interpret abnormal findings in the context of respiratory distress.
CFRC3-065	Peak expiratory flow rate measurement and interpretation Measure peak expiratory flow rate (PEFR) using a peak flow meter and interpret results.
CFRC3-066	Inhaler and Spacer Use Demonstrate proper use of an inhaler or spacer device and counsel the patient on correct technique.
CFRC3-067	Respiratory failure signs Identify and report signs of respiratory failure and the need for urgent referral.

Note: Before signing the logbook entry, the DME/HOD will ensure that the skill/task has been achieved by the student.



Clerkships

Rotation

Foundation

Clinical Skills -FRC

SECTION B

General Surgery			
CFRC Code	Task/Skill	Discipline	Signature DME/HOD
CFRC3-056	Focused surgical history-taking(neck lump, trauma, abdominal pain etc)	Surgeryand Allied	
CFRC3-057	Formula teadiagnosisfromsurgical complaints		
CFRC3-058	Able to scrub in for major and minor surgical procedures		
CFRC3-059	Assist in minor surgical procedures (observed in OT)		
CFRC3-060	Manage patients pre- and post-operatively		

Note: Before signing the logbook entry, the DME/HOD will ensure that the skill/task has been achieved by the student.

Medicine			
CFRCCode	Task/Skill	Discipline	SignatureDME/HOD
CFRC3-061	Generalphysicalexamination		
CFRC3-062	System-specificexaminations 1. GIT 2. cardiovascular 3. respiratory 4. endocrine		
CFRC3-063	Formulate a diagnosis from patient findings		
CFRC3-064	LearnhowtowriteSOAPnotes		

Note:Before signing the logbook entry, the DME/HOD will ensure that the skill/task has been achieved by the student.

Pediatrics

CFRC Code	Task/Skill	Discipline	SignatureDME/HOD
CFRC3-068	Takeabasicpediatrichistory	Pediatrics	
CFRC3-069	KnowledgeoftheEPI schedule	Pediatrics/Family Medicine/Community Medicine	

Note: Before signing the logbook entry, the DME/HOD will ensure that the skill/task has been achieved by the student



Clerkships

Rotation

Foundation

Clinical Skills -FRC

SECTION C

Case-Based Discussion (CBD) Form for Third-Year MBBS

Section	Field	Options/Notes
Trainee Information	Name	
	Student ID	
	Assessment Date	
	Location of CBD	
Assessor Information	Name	
	Designation	
	Department	
Case Details	Clinical Setting	☐ Inpatient ☐ Outpatient ☐ Emergency ☐ Elective
	Complexity of Case	☐ Basic (third-year level) ☐ Moderate ☐ Complex
	Focus of Encounter	☐ History ☐ Physical Examination ☐ Diagnosis ☐ Initial Management
		☐ Patient Education ☐ Documentation
		Summary of Case
Assessment Areas	Medical Record Keeping	☐ Outstanding ☐ Satisfactory ☐ Needs Improvement
	Clinical Assessment	☐ Outstanding ☐ Satisfactory ☐ Needs Improvement
	Diagnostic Skills	☐ Outstanding ☐ Satisfactory ☐ Needs Improvement
	Initial Management Plan	☐ Outstanding ☐ Satisfactory ☐ Needs Improvement
	Communication Skills	☐ Outstanding ☐ Satisfactory ☐ Needs Improvement
	Professionalism	☐ Outstanding ☐ Satisfactory ☐ Needs Improvement
Feedback	Strengths	
	Areas for Development	
	Recommended Actions	
Trainee Reflection	Learning from the Experience	

	Strengths
	Improvement Points
Signatures	Trainee's Signature
	Assessor's Signature

- i. At least 1/3rd of entries per block (DME to decide the codes of entries to be entered for each student)
- ii. One OSCE/CBD/Mini-CEX for every student as **EOR Assessment** for every block

05

Section

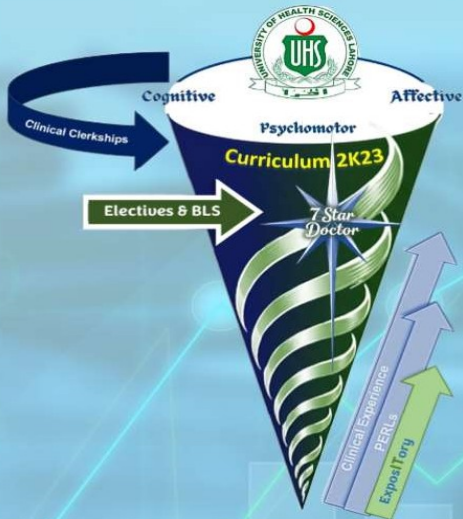


University of Health
Sciences Lahore

Modular Integrated Curriculum 2K23

MBBS Year-03

YEAR-3



PERLs



MODULE RATIONALE

The UHS PERL module is designed to equip medical students with essential competencies in Professionalism, Ethics, Research, and Leadership, aligning with the PMDC 7-Star Doctor (Professional, Ethical, Scholar, Leader, Communicator, Health Advocate, and Collaborator) framework. This framework emphasizes the multifaceted role of a physician, highlighting the need for a holistic approach to medical education. In an era where healthcare systems are constantly evolving, integrating these core areas is vital for developing well-rounded, responsible, and effective healthcare professionals.

1. **Importance of Professionalism:**

Professionalism is the cornerstone of medical practice, influencing patient trust and the overall quality of care. This module emphasizes the significance of professional behavior, including accountability, integrity, and respect for diversity, ensuring that students cultivate a strong ethical foundation as they progress through their medical education.

2. **Ethical Decision-Making:**

As future healthcare providers, students will face complex ethical dilemmas that require sound judgment and moral reasoning. This module focuses on key ethical principles, such as patient autonomy, equity, and justice in resource allocation, particularly in challenging areas like neoplasia and inflammation. Understanding these principles prepares students to advocate for their patients while navigating the intricate landscape of modern healthcare.

3. **Research Competence:**

Research plays a critical role in advancing medical knowledge and improving patient outcomes. By emphasizing evidence-based practice, this module encourages students to engage with scientific literature, develop robust literature search strategies, conduct research projects and apply research findings to clinical decision-making. This skill set is essential for fostering a culture of inquiry and continuous improvement within the healthcare profession.

4. **Leadership Development:**

Leadership is an integral part of effective healthcare delivery. This module prepares students to take on leadership roles, emphasizing teamwork, conflict resolution, and effective communication. By fostering leadership skills, we aim to empower students to influence positive changes in their future workplaces and advocate for patient-centered care.

In summary, the UHS PERL module is designed to create a comprehensive learning experience that prepares medical students for the challenges and responsibilities they will face in their careers. By integrating Professionalism, Ethics, Research, and Leadership, we aim to cultivate competent, compassionate, and ethical healthcare professionals who are equipped to make informed decisions and lead with integrity in a never-changing medical landscape.

Curricular Out comes (PLOs)

The PLOs are articulated in view of the desirable competencies of four graduates. Following are the PLOs of MBBS Program desired to highlight the attributes amongst our graduates after their graduation

PLO-1 Demonstrate the ability to independently manage non-critical clinical problems (Knowledge, Skill)

PLO-2 Exhibit proficiency in life-saving procedures and the ability to assist in the management of critically ill patients. (Skill)

PLO-3 Adhere to ethical principles and display attributes such as honesty, integrity, and confidentiality. (Attitude)

PLO-4 Conduct research that contributes to the advancement of medical knowledge and brings relevance to healthcare practices (Knowledge, Skill)

PLO-5 Act as an efficient community health promotor by advocating for health promotion and disease prevention. (Skill)

PLO-6 Exhibit comprehensive scientific knowledge in all professional activities. (Knowledge)

PLO-7 Demonstrate clear and efficient written and verbal communication skills to effectively communicate with patients, colleagues and other healthcare professionals. (Skills, Attitude)

PLO-8 Embrace a lifelong learning mind set to maintain expertise, keep up with advancements in medical practices and improve professional development

MODULE OUTCOMES

- Exhibit accountability, integrity, and respect: PLO-3 (Ethics, honesty, integrity)
- Analyze and apply ethical principles: PLO-3 (Ethical principles)
- Develop literature search and synthesis skills: PLO-4 (Research advancement)
- Participate in a comprehensive research project: PLO-4 (Conduct research)
- Demonstrate leadership and teamwork: PLO-7 (Communication, colleagues)
- Address social determinants and advocate for equity: PLO-5 (Community health promoter)
- Engage in self-assessment and reflective practices: PLO-8 (Lifelong learning, professional development)
- Utilize verbal and non-verbal communication skills: PLO-7

THEMES

1. Professionalism
2. Ethics
3. Research
4. Leadership

CARDIOVASCULAR-II

**Proposed Sequence of Topics Mentioned below. Medical Colleges are at liberty to manage according to their resources. Topics can switch within each Block*

Total Hours = 1.5

****Research (R)** in the PERL curriculum will be delivered by the Department of Community Medicine as a longitudinal component from the first to the fourth year of the MBBS program. At the end of the fourth year, students' research projects will be assessed through a dedicated PERL station.*

Code	Domain	Topic	Specific Learning Objectives	Proposed Portfolio Entry
PERLs-3-026	Research	Sample size	- Select a population for your research study. - Calculate an appropriate sample size, providing justification.	

**Proposed Sequence of Topics Mentioned below. Medical Colleges are at liberty to manage according to their resources. Topics can switch within each Block*

Total Hours = 4.5

****Research (R)** in the PERL curriculum will be delivered by the Department of Community Medicine as a longitudinal component from the first to the fourth year of the MBBS program. At the end of the fourth year, students' research projects will be assessed through a dedicated PERL station.*

Code	Domain	Topic	Specific Learning Objectives	Proposed Portfolio Entry
PERLs-3-027	Research	Questionnaire development	Identify variables and develop a questionnaire.	
PERLs-3-028	Ethics	Ethical clinical trials, drug safety in trials	- Discuss the ethical considerations in clinical trials, including the importance of informed consent, patient safety, and drug safety throughout the trial process. - Discuss the importance of Clinical Trial Registration for Clinical Trials.	Provide recommendations on how the trial could better ensure ethical compliance and drug safety.

PERLS- 3-031	Leadership	Role Modelling via Mentoring Session VII	• Participate in a mentoring session where they will discuss their strengths and weaknesses with their mentor, receive feedback, and collaboratively create an action plan for personal and professional development	Submit a summary of your mentoring session, including feedback, areas identified for improvement, and the action plan you developed with your mentor to enhance your professional growth.
PERLS- 3-032	Research	Research Proposal	• Prepare a research proposal including a problem statement supported by a brief literature review, a well-defined research question, a hypothesis.	
PERLS- 3-033		IRB Approval	• Get the proposal approved by supervisor and submit to obtain IRB approval.	



**Modular Integrated
Curriculum 2K23
MBBS Year-03**

EXPOSITORY

Volume: 03

Modular Integrated

Curriculum 2K23

Module Rationale

To integrate Expository Writing with an Introduction to Information Technology (IT) course for undergraduate medical students, we can align the IT skills taught each year with the writing tasks and objectives. The aim is to enhance students' digital literacy and writing skills, which is crucial for modern medical practice.

This integrated spiral of Expository Writing and IT ensures that as students advance in their medical education, they also develop digital literacy skills. These skills complement their writing abilities and prepare them for modern medical practice, where digital communication, research, and data management are essential. By the end of the 4-year program, students will be proficient in writing and using technology to support their work as healthcare professionals.

Year 3: Expository Writing III Research writing, data handling, and presentation skills

THEORY

Code	Subject: Expository writing & IT		Total Hours = 10		
	Specific Learning Outcome	Integrating Disciplines	Topics	Teaching / learning	Assessment tools
EXP-03	Expository Writing Focus: 1. To use Advanced grammar for, sentence structure, and writing persuasive essays and case reports with medical evidence. 2. To write full-length review articles and case studies. IT Integration: IT Skills: 3. To use Excel & SPSS for Making tables, graphs, pie charts of medical data 4. To use AI Tools for creating professional presentations. Writing Application: 5. Learn to use tools (e.g., Excel) & SPSS for making managing patient data. 6. To create clear, visually appealing presentations for research projects using AI tools.	PERLS, Pharmacology, Community Medicine, Pathology, Forensic Medicine	• Writing essays and case • Introduction to Excel & SPSS for making tables, graphs, pie charts of medical data • Making Presentations with AI tools.	LGIS	MCQs

BLOCK-9 LEADS

- **FORENSIC MEDICINE DEPARTMENT**
PROF DR, GUL MARIA - PROFESSOR
- **PATHOLOGY DEPARTMENT**
DR ASAD __ASSISTANT PROF
- **PHARMACOLOGY DEPARTMENT**
DR AZAN __SENIOR LECTURER
- **PEADS DEPARTMENT**
DR AMARA __SR.
- **MEDICINE DEPARTMENT**
DR MOBEEN __PGR
- **SURGERY DEPARTMENT**
DR SHAFaq PGR
- **COMMUNITY MEDICINE DEPARTMENT**
DR AROOJ __DEMO

CBL

Integrated CBL Session

3rd year MBBS -Block -9

IMDC

Module: Forensic Medicine

Theme: Trace Evidence

A 28-year-old woman was brought to the emergency department after being found unconscious in a park late at night. A passerby informed the police after noticing signs of a possible struggle at the scene. The victim had multiple abrasions on her arms and face and her clothes were torn.

The police collected evidence from the scene and sent the victim to the hospital for medical examination. During the forensic examination, several trace evidences were collected including hair strands, small fibers on her clothing, soil particles from her shoes, and skin scrapings from under her fingernails. The victim later regained consciousness and reported that she had been attacked by an unknown man while walking home. She resisted the attacker, which may have resulted in transfer of materials between both individuals.

The forensic team preserved all trace materials and sent them to the forensic laboratory for detailed analysis. Laboratory experts examined the samples using microscopy and chemical analysis to determine their origin and possible link to the suspect.

Later, a suspect was arrested. Samples of his hair, clothing fibers, and soil from his shoes were also collected for comparison with the evidence obtained from the victim and the crime scene.

Explanation:

Trace evidence refers to small materials that are transferred during contact between people, objects, or environments during a crime. According to Locard's Exchange Principle, whenever two objects come into contact, there is a transfer of materials.

Common examples of trace evidence include:

1. Hair
2. Fibers
3. Glass fragments
4. Soil particles
5. Paint chips
6. Gunshot residue

These materials are usually microscopic but can play a very important role in linking a suspect to a victim or crime scene. Forensic scientists analyze trace evidence using various laboratory techniques such as microscopy, spectroscopy, and chemical analysis.

Trace evidence is extremely important in criminal investigations because it can help reconstruct events and provide strong supporting evidence in court.

Instructional Objectives:

At the end of this integrated CBL session, students will be able to:

Forensic Medicine:

1. Understand the concept of trace evidence in forensic investigations
2. Explain Locard's Exchange Principle
3. Identify different types of trace evidence
4. Understand methods used in collection and preservation of trace evidence
5. Recognize the importance of trace evidence in linking suspect, victim, and crime scene

Pathology:

1. Identify injuries produced during struggle or assault
2. Understand biological evidence such as skin cells and hair

Laboratory Investigation:

1. Learn basic laboratory techniques used in trace evidence analysis
2. Understand comparison of fibers, hair, and soil samples

Recommended Books

Forensic medicine	Pathology
1. Parikh's Textbook of Medical Jurisprudence and Toxicology	1. Robbins Basic Pathology
2.Principle and practice of forensic medicine	

Internet Sources

- 1. Medscape**
- 2. National Institute of Justice**
- 3. Forensic Science International resources**

HOD (Forensic Medicine)

IMPORTANTNOTE

**To be able to sit in Annual Exam
85% attendance and at least 50% in internal
assessment is mandatory**

DISCLAIMER

This module guide may be subject to changes and students should stay updated through official communication change.