

BLOCK 10

4th Year MBBS

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Curricular Framework

The modular integrated curriculum aligns the MBBS program outcomes with the nationally defined competencies of seven-star doctors. The program outcomes are at par with the outcomes that the national regulatory authorities have processed till date for the MBBS graduates. Curriculum outcomes translate the seven-star competencies to the objectives specific learning outcomes for the sessions. The outcomes are fragmented to objectives representing the three domains of learning and then graduated in spirals and horizontally integrated so as to acquire a professional approach, develop a broad-based practical knowledge, to nurture the learner’s epistemic curiosity and to promote higher order thinking.

The horizontal integration is evident in the modular configuration where different basic disciplines approach the themes simultaneously. Module has been structured where all the basic disciplines are represented based on their respective weightage of content. Assessment framework ensures that the applied/clinical aspect also is inculcated in the concept development of the learner keeping the clinical relevance and context at the core.

Clinical Skills follow a spiral which is entirely skills dominant. This spiral is the core of psychomotor training. The clinical orientation along with the applied/clinical component of the knowledge base will channelize the learner for the practical and professional aspect of learning.

All module objectives are preceded by the recommended themes and clinical relevance. These are grounded in the rationale of the module so that pattern of learning could be steered for a practical professional approach. However institutional discretion does not prohibit adopting any other thematic approach provided that the program outcomes are adequately achieved.

FOURTH YEAR MBBS		
BLOCK X	BLOCK XI	BLOCK XII
Community Medicine & Family Health-II	Neurosciences-II	Endocrine & Reproduction- II
	Psychiatry & Behavioural Sciences	
GIT & Nutrition- II	Renal-II	Dermatology
Eye & ENT-I	Eye & ENT-II	Eye & ENT-III
11 WEEKS	14 WEEKS	11 WEEKS
PERLS-4		
C-FRC 4 (CLINICAL – FOUNDATION, ROTATION CLERKSHIPS.		

INTRODUCTION TO STUDY GUIDE

WHAT IS A STUDY GUIDE?

It is an aid to: Inform students how student learning program of the subject has been Organized
Help students organize and manage their studies throughout the module/block
Guide students on assessment methods, rules and regulations

THE STUDY GUIDE:

- Communicates information on organization and management of the module.
- This will help the student to contact the right person in case of any difficulty.
- Defines the objectives which are expected to be achieved at the end of the program.
- Identifies the learning strategies such as lectures, small group teachings, clinical skills,
- Demonstration, tutorial and case based learning that will be implemented to achieve the Learning objectives.
- Provides a list of learning resources such as books, computer assisted learning program, web-links, and journals, for students to consult in order to maximize their learning.
- Highlights information on the contribution of continuous and semester examinations on the Student's overall performance.
- Includes information on the assessment methods that will be held to determine every student's
- Achievement of objectives.
- Focuses on information pertaining to examination policy, rules and regulations

TIMELINE FOR BLOCK 10

BLOCK 10

Block 10			
1		Module 24: Community Medicine & Family Health-II	Module 24 test: 25-04-26
2	13-04-26 to 18-04-26		
3	20-04-26 to 25-04-26		
4	27-04-26 to 02-05-26	Module 25: GIT & Nutrition- II	Module 25 test: 07-06-26
5	04-05-26 to 09-05-26		
6	11-05-26 to 16-05-26		
7	18-05-26 to 23-05-26		
8	25-05-26 to 30-05-26	Module 26: Eye & ENT-I	Module test 26: 18-07-26
9	01-06-26 to 06-06-26		
10	08-06-26 to 13-06-26		
11	13-07-26 to 18-07-26		
12	20-07-26 to 25-07-26	Block 10 exam	
13	27-07-26 to 01-08-26		
Parent Teacher Meeting		08-08-26	

Clinical rotation:

	ENT	EYE	Surgery - I	Surgery - II	Medicine - I	Medicine - II
06-04-26 to 11-04-26	A	B	C1	C2	D1	D2
13-04-26 to 18-04-26			C2	C1	D2	D1
20-04-26 to 25-04-26	B	A	D1	D2	C1	C2
27-04-26 to 02-05-26			D2	D1	C2	C1
04-05-26 to 09-05-26	C	D	A1	A2	B1	B2
11-05-26 to 16-05-26			A2	A1	B2	B1
18-05-26 to 23-05-26	D	C	B1	B2	A1	A2
25-05-26 to 30-05-26			B2	B1	A2	A1

**ASSESSMENT
BLOCK EXAM**

Block-X						
Modules	Theory		Practical			
	MCQs (1 mark each)	Marks	OSCE (8 marks each)	OSVE (10 marks each)	Short Case (20 marks each)	Marks
Community Medicine-II & Family health-II	25 + 15	40	2	1	-	26
GIT & Nutrition-II	35 + 5	40	2	1	-	26
Eye-I	30	30	3	-	1	44
ENT-I	30	30	3	-	1	44
Total	140 MCQs	140 Marks	10 stations x 8=80 Marks	2 stations x 10=20 Marks	2 short cases x 20=40 Marks	140 Marks
Grand Total=280 Marks						

Internal Assessment (Theory)			
No.	Scoring Parameter	Marks out of 20%	Marks distribution
1	Attendance in Lectures	85-90%=1%, > 90%=2%	85-90%= 01 mark > 90%=02 marks
		Remedial classes – re-sit examination allowed only after case endorsed and submitted by the college Principal and approval given by the Competent Authority. However, no marks given	
		Remedial classes – re-sit exam allowed only in genuine cases after approval from Competent Authority. However, no marks given	
2	Block Examination	15%	27
3	Continuous Internal Assessment/ Class Quiz/Class participation/ Professional Behaviour/ Ethical practices/ Leadership traits/ Module Exam Discipline/ Punctuality	3%	06

Internal Assessment (Practical)			
No.	Scoring Parameter	Marks out of 20%	Marks distribution
1	Attendance in Lectures	85-90%=1%, > 90%=2%	85-90%= 01 mark > 90%=02 marks
		Remedial classes – re-sit examination allowed only after case endorsed and submitted by the college Principal and approval given by the Competent Authority. However, no marks given	
		Remedial classes – re-sit exam allowed only in genuine cases after approval from Competent Authority. However, no marks given	
2	Block Examination (OSPE/OSCE/OSVE)	13%	23
3	CFRC Log Book / PERLs Portfolio	02%	06
4	Ward / Clinical / Bedside assessment based on the clinical rotation / DOPS	02%	04

EDUCATIONAL RESOURCES**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 Mitchall, Vinary Kumar, Abul K. Abbas and Nelson Fausto Robbins and Cotran, Pocket Companion to Pathologic basis of diseases, Saunder 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. 305
- Pharmacology by Champe and Harvey, Lippincott Williams & Wilkins 8th Edition.
- Katzung Basic and Clinical pharmacology, Lippincot Illustated reviews.
- Clinical Pathology Interpretations by A. H. Nagi

Behavioural Sciences

- Handbook of Behavioural Sciences by Prof. Mowadat 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
- Text book 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.

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

Family Medicine

- Oxford Handbook of General Practice, 5th Edition

Orthopedics

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

MODULE - 24

COMMUNITY MEDICINE & FAMILY HEALTH - II

Module weeks
3 Weeks

End of module assessment

Written paper

50 MCQ,s

	Subject	MCQ, s
1	Community Medicine	30
2	Family Medicine	20

Module Committee

Co Ordinator		
Co-coordinator		
Member		
Member		
Member		
Member		
Member		

MODULE 24: COMMUNITY MEDICINE & FAMILY HEALTH-II

Community Medicine & Family Health-II equips future healthcare professionals with the knowledge, skills, and attitudes necessary to implement preventive strategies, promote health, and reduce the burden of disease through a primary healthcare approach aimed at achieving universal health coverage. It enables students to understand how social, economic, and environmental factors influence health outcomes and prepares them to address health disparities effectively. The module also focuses on developing competencies to respond to public health challenges such as pandemics, natural disasters, and environmental hazards through communitybased strategies. Additionally, it emphasizes the importance of providing family health services at the community level.

Module outcomes

- Apply biostatistical and epidemiological methods to collect, analyze, interpret, and present health data for evidence-based decision-making and research.
- Analyze demographic principles, transitions, and indicators to evaluate their implications for population health and healthcare planning in the context of Pakistan and globally.
- Evaluate occupational and environmental health risks, identify related diseases and hazards, and propose preventive, protective, and management strategies within legal and organizational frameworks.
- Develop and apply strategies for disaster preparedness, response, and recovery, including triage, relief management, and community mobilization.
- Critically appraise health systems, planning processes, and policies, and relate them to sustainable development goals and the concept of “Health for All.”

Subjects integrated in module

1. Family Medicine
2. Community medicine

WEEK 1: Time Table Fourth year MBBS block 10, Module24

	Practical 08:00 to 09:30	Ward 09:30 to 11:30	Lecture 11:30 to 12:15	Lecture 12:15 to 01:00	Lecture 01:15 to 02:00	Evening Duty 05:00 to 06:30
Mon	A (Pathology Tutorial) B (Pathology Practical) C (Community Medicine) D (Research & Biostatistics)	Ward Rotation	EYE EYE-1-001	Pathology GIT-2-Pa-001	Pathology GIT-2-Pa-001	
	B (Pathology Tutorial) C (Pathology Practical) D (Community Medicine) A (Research & Biostatistics)	Ward Rotation	Community Medicine CMFH2-CM-001	EYE EYE-1-001	Pathology GIT-2-Pa-002	Ward Duty
	C (Pathology Tutorial) D (Pathology Practical) A (Community Medicine) B (Research & Biostatistics)	Ward Rotation	Community Medicine CMFH2-CM-001	ENT ENT-EAR-001	Surgery GIT2-GE-001-2	
	D (Pathology Tutorial) A (Pathology Practical) B (Community Medicine) C (Research & Biostatistics)	Ward Rotation	Community Medicine CMFH2-CM-001	Pathology GIT-2-Pa-002	EYE EYE-1-001	Ward Duty
Fri	08:00-08:45	08:45-09:30	09:30-10:30	10:30-11:15	11:15-12:00	
	Medicine CMFH2-FM-001	Pathology GIT-2-Pa-003	Ward Rotation	ENT ENT-EAR-001	Pediatrics CMFH2-FM-003	Ward Duty
Sat	8:00-08:45	08:45-09:30	09:30-10:15	10:15-11:00	11:00-01:00	
	Medicine CMFH2-FM-002	Pathology GIT-2-Pa-003	ENT ENT-EAR-001	Community Medicine CMFH2-CM-001	Community Medicine CMFH2-CM-001	Community Medicine Field Work

NAMWAZ BREAK

WEEK 2: Time Table Fourth year MBBS block 10, Module24						
	Practical 08:00 to 09:30	Ward 09:30 to 11:30	Lecture 11:30 to 12:15	Lecture 12:15 to 01:00	Lecture 01:15 to 02:00	Evening Duty 05:00 to 06:30
Mon	A (Pathology Tutorial) B (Pathology Practical) C (Community Medicine) D (Research & Biostatistics)	Ward Rotation	EYE EYE-1-002	Pathology GIT-2-Pa-004	Pathology GIT-2-Pa-004	
Tue	B (Pathology Tutorial) C (Pathology Practical) D (Community Medicine) A (Research & Biostatistics)	Ward Rotation	Community Medicine CMFH2-CM-002	EYE EYE-1-002	Pathology GIT-2-Pa-005	Ward Duty
Wed	C (Pathology Tutorial) D (Pathology Practical) A (Community Medicine) B (Research & Biostatistics)	Ward Rotation	Community Medicine CMFH2-CM-002	ENT ENT1-EAR-001	Surgery (Urology) CMFH2-FM-006	
Thur	D (Pathology Tutorial) A (Pathology Practical) B (Community Medicine) C (Research & Biostatistics)	Ward Rotation	Community Medicine CMFH2-CM-003	Pathology GIT-2-Pa-005	EYE EYE-1-002	Ward Duty
Fri	08:00-08:45 Medicine CMFH2-FM-004	09:30-10:30	10:30-11:15	11:15-12:00		Ward Duty
	08:45-09:30 Pathology GIT-2-Pa-006	Ward Rotation	ENT ENT1-EAR-001	Pediatrics GIT2-PS-051		
Sat	8:00-08:45 Medicine CMFH2-FM-005	09:30-10:15	10:15-11:00	11:00-01:00	Community Medicine Field Work	
	08:45-09:30 Pathology GIT-2-Pa-006	ENT ENT1-EAR-002	Community Medicine CMFH2-CM-003	Community Medicine CMFH2-CM-004		

NAMWAZ BREAK

WEEK 3: Time Table Fourth year MBBS block 10, Module24

	Practical 08:00 to 09:30	Ward 09:30 to 11:30	Lecture 11:30 to 12:15	Lecture 12:15 to 01:00	Lecture 01:15 to 02:00	Evening Duty 05:00 to 06:30
Mon	A (Pathology Tutorial) B (Pathology Practical) C (Community Medicine) D (Research & Biostatistics)	Ward Rotation	EYE EYE-1-003	Pathology GIT-2-Pa-007	Pathology GIT-2-Pa-007	
	B (Pathology Tutorial) C (Pathology Practical) D (Community Medicine) A (Research & Biostatistics)	Ward Rotation	Community Medicine CMFH2-CM-004	EYE EYE-1-003	Pathology GIT-2-Pa-008	Ward Duty
	C (Pathology Tutorial) D (Pathology Practical) A (Community Medicine) B (Research & Biostatistics)	Ward Rotation	Community Medicine CMFH2-CM-004	ENT ENT-EAR-002	Surgery GIT2-GE-016	
	D (Pathology Tutorial) A (Pathology Practical) B (Community Medicine) C (Research & Biostatistics)	Ward Rotation	Community Medicine CMFH2-CM-005	Pathology GIT-2-Pa-008	EYE EYE-1-003	Ward Duty
Fri	08:00-08:45	08:45-09:30	09:30-10:30	10:30-11:15	11:15-12:00	
	Medicine CMFH2-FM-007	Pathology GIT-2-Pa-009	Ward Rotation	ENT ENT-EAR-002	Pediatrics GIT2-PS-0051	Ward Duty
Sat	8:00-08:45	08:45-09:30	09:30-10:15	10:15-11:00	11:00-01:00	
	Medicine CMFH2-FM-008	Pathology GIT-2-Pa-009	ENT ENT-EAR-002	Community Medicine CMFH2-CM-005	Community Medicine	Community Medicine Field Work

NAMWAZ BREAK

Module 24: COMMUNITY MEDICINE-II

COMMUNITY MEDICINE-II			
CODE	SPECIFIC LEARNING OUTCOMES	INTEGRATING DISCIPLINE	TOPIC
CMFH2- CM-001	Explain the basic concepts and uses of biostatistics.	Community Medicine	Biostatistics and Health Management Information System
	Classify data according to its types.		
	Define and apply rates, ratios, and proportions in health contexts.		
	Describe the process of collection and registration of vital events in Pakistan.		
	Apply methods of data presentation, including tables, graphs, and diagrams.		
	Calculate measures of central tendency (mean, median, mode).		
	Calculate measures of dispersion (range, standard deviation, standard error).		
	Interpret the normal curve and its applications in health sciences.		
	Analyze and apply sampling techniques in health research.		
	Apply and interpret health data using statistical tests such as t-test and chi-square. Apply and interpret health data using correlation.		
CMFH2- CM-002	Describe population pyramids and differentiate between those of developing and developed countries.	Community Medicine	Demography and Population Dynamics
	Identify and analyze determinants of fertility and mortality. Calculate and interpret indicators of fertility and mortality.		
	Describe the stages of demographic transition. Describe, calculate, and interpret the dependency ratio, growth rates, and population doubling time.		
	Explain demographic concepts such as demographic trap, demographic window, demographic bonus, and demographic dividend.		
	Define and explain the methodology and types of censuses, and evaluate their importance for health planning.		
	Discuss the implications of high population growth, social mobilization, and urbanization, and apply these to the context of Pakistan.		
CMFH2- CM-003	Explain the concepts of occupational health, occupational medicine, and occupational hygiene.	Community Medicine	Occupational Health
	Identify and classify physical, chemical, biological, mechanical, and psychosocial workplace hazards.		
	Apply general principles of occupational disease prevention in workplace settings.		
	Define and discuss ergonomics and its importance in occupational health.		
	Interpret causes and recognize signs and symptoms of occupational lung diseases, including pneumoconiosis, silicosis, anthracosis, byssinosis, bagassosis, asbestosis, and farmer's lung.		
	Analyze the causes, signs, and diagnosis of lead poisoning, and propose preventive and management strategies.		
	Describe accidents in the industry, sickness absenteeism, and other health problems due to industrialization. Recommend medical, engineering and legislative measures for worker protection.		
CMFH2- CM-004	Define and classify disasters.	Community Medicine	Disaster Management and accidents
	Explain the epidemiology and preventive strategies of communicable diseases during disaster. Describe impact of man-made disasters.		

BLOCK 10: 4TH YEAR MBBS

	Explain and apply the principles of triage in disaster situations.		
CMFH2- CM-005	Define health planning and apply its relevance in healthcare delivery.	Community Medicine	Health Planning and Management
	Describe the steps of the health planning cycle.		
	Discuss key management methods and techniques used in health planning.		

FAMILY HEALTH-II

CODE	SPECIFIC LEARNING OUTCOMES	INTEGRATING DISCIPLINE	TOPIC
CMFH2- FM-001	Define and classify headache.	Family Medicine/ Neurology/ Medicine	Headache
	Diagnose the following based on signs and symptoms: i. Migraine (with/without aura) ii. Tension-type headache iii. Cluster headache Identify red flags.		
	List the common causes of secondary headache including intracranial and systemic.		
	Outline the treatment of migraine, tension-type, and cluster headaches. Prescribe prophylactic treatment for recurrent primary headaches. Plan the management of secondary headaches according to cause. Advise non-pharmacological measures.		
CMFH2- FM-002	Classify fever based on duration and pattern. Explain their clinical relevance in primary care.	Family Medicine/ Medicine	Fever
	Outline the common infectious and non-infectious causes of fever, with emphasis on locally prevalent conditions.		
	Enlist baseline investigations in the evaluation of fever in primary care.		
	Outline the symptomatic management and disease-specific treatment at the primary care level.		
	Counsel patients and caregivers on home management of fever. Identify red flag features in febrile patients that require urgent referral.		
CMFH2- FM-003	List the common causes of an unwell child presentation.	Family Medicine/ Paediatrics	Unwell child
	Outline the initial assessment of a sick child. Identify the red flag signs of serious illness in children.		
	Enlist the baseline investigations.		
	Plan the management of unwell child including i. Immediate stabilization ii. Symptomatic management iii. Specific management according to cause iv. Indications for referral and hospitalization		
	Discuss preventive aspects including: i. Importance of immunization ii. Nutrition iii. Early recognition of illness by caregivers		
CMFH2- FM-004	Enlist the common mental health disorders relevant to general practice.	Family Medicine/ Psychiatry	Mental Health
	Outline the key signs and symptoms important for early detection of psychiatric conditions.		
	Discuss the principles of initial management and referral pathways for common psychiatric disorders and emergencies.		
	Explain the role of general practitioners in promoting mental health and reducing stigma.		

BLOCK 10: 4TH YEAR MBBS

CMFH2-FM-005	Enlist common causes of weakness and weight loss.	Family Medicine/ Medicine	Generalized weakness and weight loss
	Outline baseline investigations to guide initial evaluation at the primary care level.		
	Evaluate patients for red flag features that warrant urgent referral.		
	Formulate an initial management plan, including symptomatic care, preventive counseling, and referral.		
	Discuss the role of family physicians in promoting early recognition, lifestyle modification, and community awareness to prevent late presentations.		
CMFH2-FM-006	Identify common urogenital symptoms in males and females.		
	Enlist the common causes.		
	Outline baseline investigations to reach diagnosis.		
	Evaluate warning signs that require urgent referral.		
	Discuss the general principles of management of common urogenital conditions in primary care, including symptomatic treatment, infection control, and referral.		
CMFH2-FM-007	Diagnose common skin fungal infections based on clinical presentation and outline their primary care management.	Family Medicine/ Dermatology	Skin Conditions (common OPD cases)
	Identify common ectoparasitic infestations (scabies, pediculosis), manage appropriately, and counsel regarding treatment of contacts and preventive measures.		
	Diagnose common bacterial skin infections (cellulitis, folliculitis). Identify red flags for urgent referral. Outline initial primary care management.		
	Diagnose and manage common viral skin infections (warts, herpes simplex) at primary care level, and identify cases requiring referral.		
	Diagnose common inflammatory and allergic skin conditions (eczema, atopic dermatitis, acne vulgaris) based on signs and symptoms. Outline primary care management including lifestyle advice, topical therapy, and patient education.		
CMFH2-FM-008	Identify common geriatric problems including pressure ulcers, incontinence, falls, functional decline, and delirium, and evaluate their impact on the quality of life of older adults.	Family Medicine/ Medicine	Common Geriatric Issues
	Discuss the components of a basic geriatric assessment, including physical, functional, cognitive, and social aspects.		
	Identify red flag symptoms in elderly patients (acute confusion, unexplained weight loss, recurrent falls, elder abuse/neglect) that require urgent evaluation or referral.		
	Counsel elderly patients and caregivers regarding chronic disease management, adherence, rehabilitation, and end-of-life care options.		

MODULE - 25

GIT & NUTRITION - II

Module weeks
5 Weeks

End of module assessment

Written paper
100 MCQ,s

	Subject	MCQ, s
1	Pathology	40
2	Medicine (Gastroentrology)	25
3	Surgery & Pediatrics Surgery	25
4	Community Medicine	10

Module committee

Co Ordinator		
Co-coordinator		
Member		
Member		
Member		
Member		
Member		
Member		
Member		
Member		

MODULE 21: Respiratory System - II**Module rationale**

In GIT and Nutrition II, students developed a foundational understanding of the normal structure and mechanisms of the gastrointestinal system and nutrition. Building on this base, GIT and Nutrition II shifts the focus to pathological basis and clinical aspects of gastrointestinal and nutritional disorders. The module emphasizes disease mechanisms, characteristic pathological features, clinical presentations, diagnostic approaches, and evidence-based management of both common and significant GIT conditions, with nutrition considered in relation to these disorders. Students will gain a deeper understanding of how pathological changes translate into clinical symptoms and disease progression, with conditions such as infections, peptic ulcer disease, liver disorders, inflammatory bowel disease, gastrointestinal malignancies, and malabsorption syndromes explored for their clinical relevance and impact on patient outcomes. Nutritional aspects, including deficiencies and metabolic derangements, will be studied in parallel, reinforcing their close link with gastrointestinal health and disease.

Module Outcomes

- Describe the pathophysiology of major GIT diseases.
- Apply clinical knowledge of GIT pathology to diagnose and manage common GIT conditions.
- Integrate pharmacological treatment options for GIT disorders.
- Appreciate the role of nutrition in maintaining and restoring GIT health.
- Understand the impact of GIT pathology in community health settings.
- Identify psychological factors contributing to GIT disorders.

SUBJECTS INTEGRATED IN THE MODULE

1. Pathology
2. Clinical Pharmacology & Therapeutics
3. General Medicine
4. General Surgery
5. Community Medicine

WEEK 4: Time Table Fourth year MBBS block 10, Module 25

	Practical 08:00 to 09:30	Ward 09:30 to 11:30	Lecture 11:30 to 12:15	Lecture 12:15 to 01:00	Lecture 01:15 to 02:00	Evening Duty 05:00 to 06:30
Mon	A (Pathology Tutorial) B (Pathology Practical) C (Community Medicine) D (Research & Biostatistics)	Ward Rotation	EYE EYE1-003	Pathology GIT2-PA-010	Pathology GIT2-PA-011	
	B (Pathology Tutorial) C (Pathology Practical) D (Community Medicine) A (Research & Biostatistics)	Ward Rotation	Community Medicine GIT2-CM-069	EYE EYE1-003	Pathology GIT2-PA-012	Ward Duty
	C (Pathology Tutorial) D (Pathology Practical) A (Community Medicine) B (Research & Biostatistics)	Ward Rotation	Community Medicine GIT2-CM-069	ENT ENT-EAR-002	Surgery GIT2-GE-027	
	D (Pathology Tutorial) A (Pathology Practical) B (Community Medicine) C (Research & Biostatistics)	Ward Rotation	Community Medicine GIT2-CM-069	Pathology GIT2-PA-012	EYE EYE1-003	Ward Duty
Fri	08:00-08:45	09:30-10:30	10:30-11:15	11:15-12:00	NAMWAZ BREAK	
	Medicine GIT2-GE-013	Ward Rotation	ENT ENT-EAR-002	Pediatrics GIT2-PS-0051b		
Sat	8:00-08:45	09:30-10:15	10:15-11:00	11:00-01:00	Community Medicine Field Work	
	Medicine GIT2-GE-014	ENT ENT-EAR-002	Community Medicine PERL1	Community Medicine PERL 2		

WEEK 5: Time Table Fourth year MBBS block 10, Module 25

	Practical 08:00 to 09:30	Ward 09:30 to 11:30	Lecture 11:30 to 12:15	Lecture 12:15 to 01:00	Lecture 01:15 to 02:00	Evening Duty 05:00 to 06:30
Mon	A (Pathology Tutorial) B (Pathology Practical) C (Community Medicine) D (Research & Biostatistics)	Ward Rotation	EYE EYE-1-004	Pathology GIT2-PA-018	Pathology GIT2-PA-019	
	B (Pathology Tutorial) C (Pathology Practical) D (Community Medicine) A (Research & Biostatistics)	Ward Rotation	Community Medicine GIT2-CM-070	EYE EYE-1-004	Pathology GIT2-PA-020	Ward Duty
	C (Pathology Tutorial) D (Pathology Practical) A (Community Medicine) B (Research & Biostatistics)	Ward Rotation	Community Medicine GIT2-CM-070	ENT ENT-EAR-003	Surgery GIT2-GE-025	
	D (Pathology Tutorial) A (Pathology Practical) B (Community Medicine) C (Research & Biostatistics)	Ward Rotation	Community Medicine GIT2-CM-071	Pathology GIT2-PA-021	EYE EYE-1-004	Ward Duty
Fri	08:00-08:45	08:45-09:30	09:30-10:30	10:30-11:15	11:15-12:00	
	Medicine GIT2-GE-015/16	Pathology GIT2-PA-022	Ward Rotation	ENT ENT-EAR-003	Pediatrics GIT2-PS-0051c/d	Ward Duty
Sat	8:00-08:45	08:45-09:30	09:30-10:15	10:15-11:00	11:00-01:00	
	Medicine GIT2-GE-023/24	Pathology GIT2-PA-022	ENT ENT-EAR-003	Community Medicine PERL2	Community Medicine PERL2	Community Medicine Field Work

NAMWAZ BREAK

WEEK 6: Time Table Fourth year MBBS block 10, Module 25

	Practical 08:00 to 09:30	Ward 09:30 to 11:30	Lecture 11:30 to 12:15	Lecture 12:15 to 01:00	Lecture 01:15 to 02:00	Evening Duty 05:00 to 06:30
Mon	A (Pathology Tutorial) B (Pathology Practical) C (Community Medicine) D (Research & Biostatistics)	Ward Rotation	EYE EYE1-006	Pathology GIT2-PA-035	Pathology GIT2-PA-035	
	B (Pathology Tutorial) C (Pathology Practical) D (Community Medicine) A (Research & Biostatistics)	Ward Rotation	Community Medicine GIT2-CM-071	EYE EYE1-006	Pathology GIT2-PA-036	Ward Duty
	C (Pathology Tutorial) D (Pathology Practical) A (Community Medicine) B (Research & Biostatistics)	Ward Rotation	Community Medicine GIT2-CM-072	ENT ENT1-EAR-004	Surgery GIT2-GE-027	
	D (Pathology Tutorial) A (Pathology Practical) B (Community Medicine) C (Research & Biostatistics)	Ward Rotation	Community Medicine GIT2-CM-072	Pathology GIT2-PA-037	EYE EYE1-006	Ward Duty
Fri	08:00-08:45	09:30-10:30	10:30-11:15	11:15-12:00		
	Medicine GIT2-GE-026	Ward Rotation	ENT ENT1-EAR-004	Pediatrics GIT2-PS-068		Ward Duty
Sat	8:00-08:45	09:30-10:15	10:15-11:00	11:00-01:00		
	Medicine GIT2-GE-041/42	ENT ENT1-EAR-004	Community Medicine PERL3	Community Medicine PERL3	Community Medicine Field Work	

NAMWAZ BREAK

WEEK 7: Time Table Fourth year MBBS block 10, Module 25

	Practical 08:00 to 09:30	Ward 09:30 to 11:30	Lecture 11:30 to 12:15	Lecture 12:15 to 01:00	Lecture 01:15 to 02:00	Evening Duty 05:00 to 06:30
Mon	A (Pathology Tutorial) B (Pathology Practical) C (Community Medicine) D (Research & Biostatistics)	Ward Rotation	EYE EYE-1-006	Pathology GIT2-PA-039	Pathology GIT2-PA-039	
	B (Pathology Tutorial) C (Pathology Practical) D (Community Medicine) A (Research & Biostatistics)	Ward Rotation	Community Medicine GIT2-CM-073	EYE EYE-1-006	Pathology GIT2-PA-052	Ward Duty
	C (Pathology Tutorial) D (Pathology Practical) A (Community Medicine) B (Research & Biostatistics)	Ward Rotation	Community Medicine GIT2-CM-073	ENT ENT1-EAR-005	Surgery GIT2-S-054	
	D (Pathology Tutorial) A (Pathology Practical) B (Community Medicine) C (Research & Biostatistics)	Ward Rotation	Community Medicine GIT2-CM-074	Pathology GIT2-PA-053	EYE EYE-1-006	Ward Duty
Fri	08:00-08:45	08:45-09:30	09:30-10:30	10:30-11:15	11:15-12:00	
	Medicine GIT2-GE-043	Pathology GIT2-PA-054	Ward Rotation	ENT ENT1-EAR-006	Pharmacology GIT2-PH-031/32	Ward Duty
Sat	8:00-08:45	08:45-09:30	09:30-10:15	10:15-11:00	11:00-01:00	
	Medicine GIT2-GE-044	Pathology GIT2-PA-055	ENT ENT1-EAR-005	Community Medicine PERL IV	Community Medicine PERL IV	Community Medicine Field Work

NAMWAZ BREAK

WEEK 8: Time Table Fourth year MBBS block 10, Module 25

	Practical 08:00 to 09:30	Ward 09:30 to 11:30	Lecture 11:30 to 12:15	Lecture 12:15 to 01:00	Lecture 01:15 to 02:00	Evening Duty 05:00 to 06:30
Mon	A (Pathology Tutorial) B (Pathology Practical) C (Community Medicine) D (Research & Biostatistics)	Ward Rotation	EYE EYE-1-006	Pathology GIT2-PA-056	Pathology GIT2-PA-057	
	B (Pathology Tutorial) C (Pathology Practical) D (Community Medicine) A (Research & Biostatistics)	Ward Rotation	Community Medicine GIT2-CM-074	EYE EYE-1-006	Pathology GIT2-PA-058	Ward Duty
	C (Pathology Tutorial) D (Pathology Practical) A (Community Medicine) B (Research & Biostatistics)	Ward Rotation	Community Medicine PERL V	ENT ENT1-EAR-007	Surgery GIT2-GE-046/48	
	D (Pathology Tutorial) A (Pathology Practical) B (Community Medicine) C (Research & Biostatistics)	Ward Rotation	Community Medicine PERL VI	Pathology GIT2-PA-058	EYE EYE-1-006	Ward Duty
Fri	08:00-08:45	08:45-09:30	09:30-10:30	10:30-11:15	11:15-12:00	
	Medicine GIT2-GE-045	Pathology GIT2-PA-059	Ward Rotation	ENT ENT1-EAR-007	Pharmacology GIT2-Ph-033/34	Ward Duty
Sat	8:00-08:45	08:45-09:30	09:30-10:15	10:15-11:00	11:00-01:00	
	Medicine GIT2-GE-046/47	Pathology GIT2-PA-067	ENT ENT1-EAR-007	Community Medicine PERL VII	Community Medicine PERL VI	Community Medicine Field Work

NAMWAZ BREAK

Module 25: GIT & NUTRITION - II

ORAL CAVITY & SALIVARY GLAND TUMORS			
CODE	SPECIFIC LEARNING OUTCOMES	INTEGRATING DISCIPLINE	TOPIC
GIT2-Pa-001	Classify and describe the morphological features of oral infectious diseases.	Pathology	Oral infectious diseases
GIT2-Pa-002	Describe briefly benign, premalignant, and malignant oral lesions.		Oral lesions
GIT2-Pa-003	Classify salivary gland tumors into benign and malignant types.		Salivary gland tumors
GIT2-Pa-004	Discuss the histopathological features of pleomorphic adenoma and Warthin's tumors.		Pleomorphic adenoma
GIT2-Pa-005	Differentiate the pathological features of common malignant salivary gland tumors.		Malignant salivary gland tumors
GIT2-Pa-006	Explain the role of immunohistochemistry and other diagnostic tools in differentiating between various salivary gland tumors.		Diagnostic tools

ESOPHAGUS			
GIT2-Pa-007	Discuss in detail the pathological causes of esophageal obstruction.	Pathology	Esophageal obstruction
GIT2-Pa-008	Enumerate and describe the pathogenesis of different types of esophagitis.	Pathology	Esophagitis
GIT2-Pa-009	Describe the pathogenesis of esophageal varices.	Pathology	Esophageal Varices
GIT2-Pa-010	Describe in detail the morphology of Barret's esophagus with major complications.	Pathology	Barret's Esophagus
GIT2-Pa-011	Classify esophageal tumors. Describe the pathogenesis and morphology of adenocarcinoma and squamous cell carcinoma of the esophagus.	Pathology	Esophageal Tumors
GIT2-GE-012	Define dysphagia. Explain the pathophysiological mechanisms leading to dysphagia. Outline the etiology of dysphagia Develop a stepwise diagnostic and management plan for a patient presenting with dysphagia.	Gastroenterology/Medicine	Dysphagia
GIT2-GE-013	Diagnose gastroesophageal reflux disease (GERD) on the basis of characteristic symptoms and clinical presentation. Enlist the etiology and pathophysiology of GERD. Outline differential diagnosis of GERD.	Gastroenterology/Medicine	Gastro-esophageal Reflux Disease (GERD)
GIT2-GE-014	Diagnose achalasia on the basis of characteristic symptoms and clinical presentation. Describe the etiology and pathophysiology of achalasia. Outline the diagnostic investigations for achalasia. Interpret the radiological and endoscopic findings in achalasia. Discuss the treatment options for achalasia.	Gastroenterology/Medicine	Achalasia
GIT2-GE-015	Diagnose esophageal candidiasis based on its specific signs and symptoms. Enumerate the risk factors for esophageal candidiasis. Outline the diagnostic investigations and discuss the treatment options for esophageal candidiasis.	Gastroenterology/Medicine	Esophageal candidiasis
GIT2-GE-016	Describe the risk factors for esophageal cancer. Diagnose esophageal cancer from its symptoms and clinical presentation. Outline the diagnostic investigations for esophageal cancer. Explain the staging of esophageal cancer. Discuss the treatment options for esophageal cancer.	Gastroenterology/Medicine	Esophageal cancer

STOMACH AND DUODENUM			
GIT2-Pa-017	Describe the pathogenesis and morphology of acute gastritis.	Pathology	Acute gastritis
GIT2-Pa-018	Enumerate the causes of chronic gastritis with special emphasis on the pathogenesis of H. Pylori gastritis and autoimmune gastritis.	Pathology	Chronic gastritis
	Describe the differentiating features of H. Pylori and autoimmune gastritis.		
GIT2-Pa-019	Describe the pathogenesis, morphology, and complication of peptic ulcer disease.	Pathology	Peptic ulcer disease
GIT2-Pa-020	Discuss in detail the hypertrophic gastropathies.	Pathology	Hypertrophic gastropathies
GIT2-Pa-021	Describe the important features of the fundic gland, inflammatory, hyperplastic polyps, and gastric adenomas.	Pathology	Gastric polyps and adenomas
GIT2-Pa-022	Classify gastric tumors. Describe the morphology of gastric adenocarcinomas and its two types. Describe the morphology of maltoma and its immunohistochemistry. Describe the morphology and variants of Gastrointestinal Stromal Tumours (GIST) and its immunohistochemistry. Describe the location, morphology, and important features of carcinoid tumors.	Pathology	Gastric tumors
GIT2-GE-023	Explain the causes and pathophysiology of vomiting, including central and peripheral pathways Formulate a differential diagnosis for patients presenting with vomiting. Identify red flag features requiring urgent evaluation. Enlist investigations. Outline management strategies.	Gastroenterology / Medicine	Vomiting
GIT2-GE-024	Enumerate the causes of hematemesis. Identify risk factors for upper gastrointestinal bleeding. Describe the clinical presentations. Outline the investigations and procedures used to establish a diagnosis. Outline the emergency management of hematemesis.	Gastroenterology / Medicine	Hematemesis
GIT2-GE-025	Enumerate the causes of abdominal pain. Develop a differential diagnosis for abdominal pain. Outline the investigations required to establish a diagnosis. Describe the treatment options for abdominal pain.	Gastroenterology / Medicine	Abdominal pain
GIT2-GE-026	Diagnose acid peptic disease based on symptoms, clinical presentation, and risk factors. Explain the role of Helicobacter pylori in the pathogenesis of acid peptic disease. Plan the diagnostic workup and management options.	Gastroenterology / Medicine	Acid peptic disease
GIT2-GE-027	Classify the types of gastric cancer. Enlist the risk factors for gastric cancer. Describe clinical presentation. Plan the diagnostic workup for gastric cancer. Explain the staging of gastric carcinoma. Discuss the treatment options for gastric cancer.	Gastroenterology / Medicine	Gastric carcinoma
GIT2-S-028	Describe the causes of duodenal obstruction. Diagnose duodenal tumours based on clinical presentation. Outline the investigations to confirm diagnosis.	Surgery	Duodenal obstruction
GIT2-S-029	Describe the management of obesity as a surgical disease. Explain the rationale for bariatric and metabolic surgery. Outline the eligibility criteria and summarize NICE guidelines for bariatric surgery. Describe the multidisciplinary assessment and multimodal treatment required before surgery. Enumerate the types of bariatric surgical procedures. Identify and manage perioperative complications. Describe the follow-up plan, including nutritional supplementation and biochemical monitoring.	Surgery	Bariatric and metabolic surgery

BLOCK 10: 4TH YEAR MBBS

GIT2-Ph-030	Classify Antacids Describe their pharmacokinetics, mechanism of action, pharmacological effects, uses, adverse effects, drug interactions, and contraindications. Describe the milk-alkali syndrome. Explain the acid-rebound phenomenon caused by antacids. Differentiate between the different antacids.	Pharmacology	Antacids
GIT2-Ph-031	Classify H2 receptor blockers. Describe their pharmacokinetics, mechanism of action, pharmacological effects, uses, adverse effects, drug interactions, and contraindications.	Pharmacology	H2 receptor blockers
GIT2-Ph-032	Classify Proton Pump Inhibitors (PPI) Describe their pharmacokinetics, mechanism of action, pharmacological effects, uses, adverse effects, drug interactions, and contraindications. Tabulate differences between PPIs and H2 receptor blockers.	Pharmacology	Proton Pump Inhibitors (PPI)
GIT2-Ph-033	Enumerate Mucosal Protective Agents and the drugs used for eradication of H. Pylori. Describe their pharmacokinetics, mechanism of action, pharmacological effects, uses, adverse effects, drug interactions, and contraindications. Describe triple regimen, quadruple regimen & sequential therapy for eradication of H. Pylori.	Pharmacology	Mucosal Protective Agents
GIT2-Ph-034	Classify anti-emetics. Describe their pharmacokinetics, mechanism of action, pharmacological effects, uses, adverse effects, drug interactions, and contraindications. Tabulate differences between metoclopramide and Domperidone.	Pharmacology	Anti-emetics
SMALL & LARGE INTESTINE			
GIT2-Pa-035	Describe the morphological features of ischemic bowel disease with special emphasis on its causes and mutations involved. Enumerate the pathological causes of malabsorption syndrome. Describe the morphology, Marsh classification, and lab diagnosis of Celiac disease. Describe the pathogenesis and morphological features of Whipple disease.	Pathology	Diseases of the Small and Large Intestines
GIT2-Pa-036	Enumerate the common causative agents of infectious enterocolitis including bacterial, viral, and parasitic. Explain the pathogenesis of enterocolitis caused by Salmonella, Mycobacterium tuberculosis, and Clostridium difficile.	Microbiology	Causative agents of infectious enterocolitis
GIT2-Pa-037	Describe the pathogenesis, microscopic and macroscopic features, and complications of Crohn's disease and Ulcerative colitis.	Pathology	Crohn's disease and ulcerative colitis
GIT2-Pa-038	Classify the intestinal polyps. Describe the morphological features of: i. Hyperplastic polyps ii. Inflammatory polyps iii. Hamartomatous polyps iv. Peutz-Jeghers syndrome Classify polyposis syndromes and describe: i. Complications ii. Genetic mutations iii. Extra-gastrointestinal manifestations iv. Morphology	Pathology	Intestinal polyps
GIT2-Pa-039	Classify neoplastic polyps and describe their morphological features in detail. Describe in detail the pathogenesis and morphological features of colorectal carcinoma. Enumerate immunohistochemical markers and TNM/ AJCC staging.	Pathology	Neoplastic polyps and colorectal carcinoma
GIT2-Pa-040	Describe the etiology and morphological features of acute appendicitis. Classify the tumors of the appendix and discuss their clinical importance.	Pathology	Diseases of appendix
GIT2-GE-041	Enlist causes of acute and chronic diarrhea. Develop a differential diagnosis of diarrhea. Explain the pathophysiology of acute and chronic diarrhea.	Gastroenterology / Medicine	Diarrhea (acute and chronic)

GIT2-GE-042	Identify the common causes of acute gastroenteritis. Diagnose on the basis of characteristic symptoms and clinical presentation. Outline diagnostic investigations with management plan.	Gastroenterology/Medicine	Acute gastroenteritis
GIT2-GE-043	Classify malabsorption syndromes. Identify the symptoms and signs of malabsorption. Enlist investigations to establish the diagnosis. Describe treatment strategies for different malabsorption syndromes.	Gastroenterology/Medicine	Malabsorption syndromes
GIT2-GE-044	Classify inflammatory bowel disease. Identify the risk factors, clinical presentations, and associations of ulcerative colitis and Crohn's disease. List the investigations and treatment plans with followup for monitoring and long-term management.	Gastroenterology/Medicine	Inflammatory bowel disease
GIT2-GE-045	Define Irritable bowel syndrome (IBS). Describe the etiology and clinical presentation of IBS. Formulate a differential diagnosis for patients with suspected IBS. Outline investigations and treatment strategies.	Gastroenterology/Medicine	Irritable bowel syndrome (IBS)
GIT2-GE-046	Classify the types of small and large intestinal cancers. Identify the risk factors and clinical presentation. Outline the staging systems used for intestinal cancers. Outline investigations and treatment options.	Gastroenterology/Medicine	Intestinal cancers
GIT2-GE-047	Identify the causes of constipation. Formulate a differential diagnosis for patients presenting with constipation. Enlist investigations to establish the diagnosis. Outline treatment strategies for constipation.	Gastroenterology/Medicine	Constipation
GIT2-GE-048	Identify clinical presentation. Outline investigations and treatment strategies for abdominal tuberculosis.	Gastroenterology/Medicine	Abdominal tuberculosis
GIT2-Ph-049	Classify prokinetic drugs. Describe their pharmacokinetics, mechanism of action, pharmacological effects, uses, adverse effects, drug interactions, and contraindications.	Pharmacology	Prokinetic drugs
GIT2-Ph-050	Classify Laxative, Purgative, Cathartic stool, Softeners & Stimulant Purgatives. Describe their pharmacokinetics, mechanism of action, pharmacological effects, uses, adverse effects, drug interactions, and contraindications. Explain the role of lactulose in the treatment of Hepatic Encephalopathy.	Pharmacology	Laxative and Purgative
GIT2-PS-051	List causes of congenital (atresia's, neonatal volvulus,, malrotation,) and acquired intestinal obstruction. Define intussusception. Classify types of intussusception and pathophysiology. Identify common age group and etiology. Enumerate the classical triad of symptoms. Enlist diagnostic methods. Discuss importance of early diagnosis and complications of non/delayed treatment. Outline treatment plan.	Pediatric Surgery	Intussusception and causes of intestinal obstruction in children
GIT2-PS-051a	Define acute appendicitis. Identify clinical features and complications of delayed treatment. Outline the diagnostic investigations and initial management.	Pediatric Surgery	Appendicitis in children
GIT2-PS-051b	Define inguinal hernia and hydrocele. Classify them in children. Describe the pathophysiology of communicating and non-communicating hydrocele. Enumerate clinical features of hernia and hydrocele. Differentiate between two. Outline principles of management with referral for treatment to Pediatric Surgical Setting.	Pediatric Surgery	Hernia (inguinal & umbilical) and Hydrocoele
GIT2-PS-051c	Define Phimosi s and Paraphimosi s. Differentiate physiological and pathological phimosi s. Enumerate complications. Outline management options.	Pediatric Surgery	Phimosi s and paraphimosi s

GIT2-PS-051d	Define vesical and cloacal exstrophy. Describe embryological basis. Enumerate clinical features. Outline management principles.		Vesical and Cloacal Exstrophy
HEPATOBILLARY SYSTEM			
GIT2-Pa-052	Enumerate the causes of jaundice with special emphasis on hereditary hyperbilirubinemias. Differentiate between cholestasis and hepatocellular jaundice. Describe the pathological changes in liver cirrhosis that occur at the cellular and structural levels. Interpret liver function tests (LFTs) and correlate abnormal results.	Pathology	Jaundice
GIT2-Pa-053	Identify the etiology and pathogenesis of viral hepatitis (A, B, C, D, and E), including their modes of transmission and effects on the liver. Identify the clinical and pathological features of acute liver failure.	Pathology	Viral hepatitis
GIT2-Pa-054	Explain the pathogenesis and morphology of alcoholic liver disease (fatty liver, alcoholic hepatitis, and cirrhosis). Describe non-alcoholic fatty liver disease (NAFLD) and its progression to non-alcoholic steatohepatitis (NASH) and cirrhosis. Describe the differentiating features of primary biliary cholangitis, secondary biliary cirrhosis, and primary sclerosing cholangitis.	Pathology	Alcoholic and non-alcoholic fatty liver disease
GIT2-Pa-055	Classify the liver nodules and tumors along with salient morphological features. Discuss the pathogenesis of hepatocellular carcinoma (HCC), including risk factors like cirrhosis and hepatitis, precursor lesions, and morphological variants. Describe the differentiating features of HCC and cholangiocarcinoma along with immunohistochemistry. Explain the pathogenesis and risk factors contributing to the development of cholangiocarcinoma.	Pathology	Pathogenesis of Hepatocellular carcinoma
GIT2-Pa-056	Enumerate the types of gallstones. Explain the etiopathogenesis of gallstones. Explain the pathophysiology and morphology of acute and chronic cholecystitis.	Pathology	Cholelithiasis
GIT2-Pa-057	Describe the pathogenesis of acute pancreatitis, its morphology and lab diagnosis. Describe the morphology of chronic pancreatitis and its complications.	Pathology	Pancreatitis
GIT2-Pa-058	Classify the neoplasms of the pancreas, precursor lesions to pancreatic cancers, and its morphology along with tumor markers.	Pathology	Pancreatic cancers
GIT2-GE-059	Define jaundice and describe its major causes. Differentiate between pre-hepatic, hepatic, and posthepatic jaundice. Outline investigations to reach diagnosis.	Gastroenterology/Medicine	Jaundice
GIT2-GE-060	Describe etiology and clinical presentation. Enlist investigations to reach diagnosis. Outline management plan. Discuss prognosis and potential complications of hepatitis.	Gastroenterology/Medicine	Acute and chronic hepatitis
GIT2-GE-061	Describe non-alcoholic fatty liver disease (NAFLD) and NASH. Identify the risk factors and clinical features of NAFLD. Outline investigations and management plan for patients with NAFLD.	Gastroenterology/Medicine	Management of NAFLD & NASH
GIT2-GE-062	Identify risk factors and describe the clinical course, progression, and outcomes of cirrhosis. Differentiate between compensated and decompensated liver disease. Outline investigations and management strategies. Enlist potential complications.	Gastroenterology/Medicine	Chronic liver disease
GIT2-GE-063	Describe autoimmune hepatitis, Wilson's disease, hemochromatosis, and alcoholic liver disease with reference to etiology, risk factors, and clinical features. Enlist investigations and procedures to establish a diagnosis. Outline management strategies for these disorders.	Gastroenterology/Medicine	Metabolic and Genetic Disorders of Liver

BLOCK 10: 4TH YEAR MBBS

GIT2-GE-064	Describe the types, risk factors, and clinical features of hepatocellular carcinoma (HCC). Enlist investigations for diagnosing and staging HCC. Outline the stages of HCC and discuss available treatment options.	Gastroenterology/Medicine	Hepatocellular carcinoma
GIT2-S-065	Describe the surgical anatomy and basic function of the gallbladder and bile ducts. Explain in simple terms the formation of gallstones and outline their surgical management. Identify common disorders of the biliary tree.	Surgery	Cholecystectomy
GIT2-S-066	Describe the surgical anatomy of the pancreas and important adjacent structures to preserve during surgery. Diagnose acute pancreatitis based on symptoms, signs, and risk factors. Outline the role of surgery in the management of pancreatitis.	Surgery	Pancreatitis and its management
GIT2-PS-066	Define primary peritonitis and differentiate from secondary peritonitis. List predisposing factors and common causative organisms. Describe clinical features. Outline investigations. State principles of management and early referral.	Pediatric Surgery	Primary peritonitis

SPLEEN

GIT2-GE-067	Enumerate the causes of splenomegaly. Describe the morphology of splenic congestion and splenic rupture.	Pathology	Morphology of splenic congestion
GIT2-PS-068	Enlist the indications for splenectomy. Describe potential complications of splenectomy. Describe the potential advantages of laparoscopic splenectomy. Describe the benefits of splenic conservation. Describe the importance of prophylaxis against infection following splenectomy.	Pediatric Surgery/ General Surgery	Splenectomy

HEALTH & NUTRITION

GIT2-CM-069	Describe nutrition. Classify food and nutrients. Define balanced diet. Discuss prudent diet and its components. Describe daily requirements of nutrients. Discuss measures to ensure healthy dietary intake.	Community Medicine	Fundamentals of Nutrition and Balanced Diet
GIT2-CM-070	Describe the role of macronutrients and micronutrients at different stages of life. Explain the importance of dietary fibers and their role in health. Discuss diseases related to deficiencies or excess of macronutrients, vitamins, and minerals.	Community Medicine	Macronutrients and Micronutrients
GIT2-CM-071	Describe the concept of malnutrition. Classify the types of malnutrition. Identify the causes of malnutrition. Discuss the impact of malnutrition at different stages of life. Describe strategies for control and prevention of malnutrition. Enlist specific preventive measures for malnutrition.	Community Medicine	Malnutrition
GIT2-CM-072	Discuss the nutritional requirements of children under 5 years of age. Discuss the nutritional requirements during pregnancy. Discuss the nutritional requirements during adolescence. Explain the consequences of poor nutrition in adolescence on growth, development, and long-term health.	Community Medicine	Nutritional requirements
GIT2-CM-073	Describe nutritional diseases and related public health programs. Discuss the role of food fortification in improving nutrition. Describe the concept and application of nutritional surveillance. Describe methods of nutritional assessment.	Community Medicine	Public Health Nutrition Programs
GIT2-CM-074	Discuss the concept of food adulteration, food additives, and their health implications. Classify common food-borne diseases. Describe strategies to prevent food-borne diseases.	Community Medicine	Food Hygiene and Safety

GIT2-S-075	<p>Explain the importance of assessing perioperative nutritional status and its implications.</p> <p>Describe the causes and complications of malnutrition in surgical patients.</p> <p>Discuss fluid balance management in the perioperative setting.</p> <p>Outline the nutritional requirements of surgical patients and options for nutritional support, including indications for enteral versus parenteral feeding.</p> <p>Explain the nutritional consequences of intestinal resection.</p>	Surgery	Perioperative Nutritional Management
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MODULE - 26

EYE & ENT - I

Module weeks
2 Weeks

End of module assessment

Written paper
100 MCQ,s

	Subject	MCQ, s
1	ENT	50
2	EYE	50

Module committee

Co Ordinator		
Co-coordinator		
Member		
Member		
Member		
Member		
Member		
Member		
Member		

Module Rationale ENT - I

The inclusion of module related to otorhinolaryngology in the undergraduate medical curriculum is imperative to ensure that future physicians acquire the essential knowledge and skills to diagnose and manage both common and potentially serious otorhinolaryngological conditions. Such training not only contributes to improved patient care but also alleviates the burden on specialized ENT (ear, nose, throat) services, thereby enhancing overall healthcare delivery and efficiency. The objective of this module is to outline the essential knowledge, skills, attitudes, and competencies in otorhinolaryngology that must be attained during undergraduate medical training.

Module outcomes

- Explain the pathophysiology and clinical features of common ear, nose, and throat disorders.
- Identify and diagnose prevalent otorhinolaryngological conditions through history-taking and clinical evaluation.
- Perform basic otorhinolaryngological examination techniques competently.
- Initiate appropriate first-line management for common ENT conditions and determine indications for timely referral to specialist care.
- Recognize and provide initial stabilization for otorhinolaryngological emergencies, such as airway obstruction and severe epistaxis, followed by appropriate referral.
- Communicate effectively with patients regarding ENT conditions, management options, and preventive strategies, ensuring clarity and patient-centered care.
- Demonstrate professionalism, ethical conduct, and a respectful attitude in the care of patients with otorhinolaryngological conditions

SUBJECTS INTEGRATED IN THE MODULE

1. Anatomy
2. Physiology
3. Pathology
4. Pharmacology
5. Oncology
6. Forensic Medicine

Module Rationale EYE - I

Ophthalmology is a vital medical specialty dedicated to the diagnosis, treatment, and prevention of eye diseases. It is essential for medical students to have a thorough understanding of the eye's basic anatomy, physiology, and pathology in order to manage common ocular conditions effectively. This module aims to equip medical students with the knowledge and clinical skills necessary to identify and manage a wide range of ophthalmic conditions frequently encountered in general practice and emergency settings.

Module outcomes

- Identify common ophthalmic diseases and disorders encountered in OPD, IPD, multidisciplinary and emergency settings.
- Apply fundamental clinical skills in the examination of the eye and adnexa, including visual acuity assessment and basic use of ophthalmic instruments.
- Formulate differential diagnosis and initial management plans for common ophthalmic conditions, including appropriate referral when necessary.
- Integrate knowledge of ophthalmic health into the broader context of systemic diseases and public health considerations.

SUBJECTS INTEGRATED IN THE MODULE

1. Medicine
2. Oncology
3. Pharmacology
4. Forensic Medicine
5. Rheumatology

WEEK 9: Time Table Fourth year MBBS block 10, Module 26						
	Practical 08:00 to 09:30	Ward 09:30 to 11:30	Lecture 11:30 to 12:15	Lecture 12:15 to 01:00	Lecture 01:15 to 02:00	Evening Duty 05:00 to 06:30
Mon	A (Pathology Tutorial) B (Pathology Practical) C (Community Medicine) D (Research & Biostatistics)	Ward Rotation	EYE	Pathology	Pathology	
Tue	B (Pathology Tutorial) C (Pathology Practical) D (Community Medicine) A (Research & Biostatistics)	Ward Rotation	Community Medicine	EYE	Pathology	Ward Duty
Wed	C (Pathology Tutorial) D (Pathology Practical) A (Community Medicine) B (Research & Biostatistics)	Ward Rotation	Community Medicine	ENT	Surgery	
Thur	D (Pathology Tutorial) A (Pathology Practical) B (Community Medicine) C (Research & Biostatistics)	Ward Rotation	Community Medicine	Pathology	EYE	Ward Duty
Fri	08:00-08:45 Medicine	08:45-09:30 Pathology	09:30-10:30 Ward Rotation	10:30-11:15 ENT	11:15-12:00 Pharmacology	Ward Duty
Sat	8:00-08:45 Medicine	08:45-09:30 Pathology	09:30-10:15 ENT	10:15-11:00 Community Medicine Lecture	11:00-01:00 Community Medicine	Community Medicine Field Work

NAMWAZ BREAK

WEEK 10: Time Table Fourth year MBBS block 10, Module 26

	Practical 08:00 to 09:30	Ward 09:30 to 11:30	Lecture 11:30 to 12:15	Lecture 12:15 to 01:00	Lecture 01:15 to 02:00	Evening Duty 05:00 to 06:30
Mon	A (Pathology Tutorial) B (Pathology Practical) C (Community Medicine) D (Research & Biostatistics)	Ward Rotation	EYE	Pathology	Pathology	
	B (Pathology Tutorial) C (Pathology Practical) D (Community Medicine) A (Research & Biostatistics)	Ward Rotation	Community Medicine	EYE	Pathology	Ward Duty
	C (Pathology Tutorial) D (Pathology Practical) A (Community Medicine) B (Research & Biostatistics)	Ward Rotation	Community Medicine	ENT	Surgery	
	D (Pathology Tutorial) A (Pathology Practical) B (Community Medicine) C (Research & Biostatistics)	Ward Rotation	Community Medicine	Pathology	EYE	Ward Duty
Fri	08:00-08:45	08:45-09:30	09:30-10:30	10:30-11:15	11:15-12:00	Ward Duty
	Medicine	Pathology	Ward Rotation	ENT	Pediatrics	
Sat	8:00-08:45	08:45-09:30	09:30-10:15	10:15-11:00	11:00-01:00	Community Medicine Field Work
	Medicine	Pathology	ENT	Community Medicine Lecture	Community Medicine	

NAMWAZ BREAK

THEORY			
ENT-I (EAR)			
CODE	SPECIFIC LEARNING OUTCOMES	INTEGRATING DISCIPLINE	TOPIC
ENT1-Ear-001	Classify the types of hearing loss. Explain the pathophysiological mechanisms underlying hearing loss. Differentiate between conductive and sensorineural hearing loss. Describe the indications, benefits, and limitations of hearing implants.	ENT	Hearing Loss
ENT1-Ear-002	Diagnose Perichondritis of pinna on basis of clinical features and plan its management.		Diseases of the External Ear
	Define and classify Otitis externa. Describe the clinical presentation. Plan management.		
	Describe the etiology, clinical presentation, and treatment of Otomycosis. Differentiate Otomycosis from other causes of otitis externa.		
	Describe the composition of ear wax. Diagnose cerumen impaction based on clinical presentation. Outline the treatment options and precautions. Enlist complications associated with cerumen removal.		
	Diagnose foreign bodies impaction in the ear based on clinical presentation. Enlist the complications. Outline the methods for removal of foreign bodies in the ear.		
	Describe the etiology, clinical presentation, and treatment of auricular hematoma. Identify frostbite of the ear based on clinical presentation with its management plan. Describe the etiology, clinical presentation, and treatment of lacerations and avulsion injuries of the pinna.		
ENT1-Ear-003	Enlist the etiological and risk factors of Acute Otitis Media. Diagnose acute otitis media based on clinical presentation. Outline the treatment plan. Enlist the complications.	ENT	Diseases of the Middle Ear
	Describe the etiology and clinical presentation of Chronic Otitis Media. Outline the management strategies. Enlist the potential complications. Outline the management plan of facial paralysis in otitis media.		
	Explain the pathophysiology and risk factors of Otosclerosis. Formulate differential diagnosis. Outline the management plan.		

ENT1-Ear-004	Enlist the causes of pre-lingual Sensorineural Hearing Loss. Explain the clinical presentation and diagnostic approach. Plan medical, rehabilitative, and surgical management.	ENT	Diseases of Inner Ear
	Explain the pathophysiology and clinical features of Benign Paroxysmal Positional Vertigo (BPPV). Outline management, including repositioning maneuvers and patient counseling.		
	Describe the etiology and clinical presentation of vestibular neuronitis. Differentiate vestibular neuronitis from central causes of vertigo. Discuss management plan.		
	Describe the etiology and predisposing factors of Meniere's disease. Describe the characteristic signs and symptoms. Outline the medical and surgical management options. Discuss the long-term impact of Meniere's disease on hearing and quality of life.		
	Describe the etiology and risk factors of Presbycusis. Diagnose based on clinical presentation. Outline management plan including preventive measures.		
	Describe the etiology and risk factors of noise-induced hearing loss (NIHL). Identify the clinical presentation and audiometric findings of NIHL. Outline management plan including prevention.		
ENT1-Ear-005	Enlist the common ototoxic drugs. Describe the mechanism of ototoxicity. Identify clinical presentation of ototoxic hearing loss. Outline strategies for monitoring, prevention, and management of ototoxicity.	ENT/ Pharmacology	Ototoxic hearing loss
ENT1-Ear-006	Identify clinical features of Glomus tumor. Enlist investigations. Discuss management options.	ENT	Glomus tumor
ENT1-Ear-006	Describe clinical features of temporal bone trauma. Enlist its possible complications. Outline relevant investigations and initial management plan.	ENT	Temporal bone trauma
ENT1-Ear-007	Describe causes and clinical features of facial nerve palsy. Outline management plan. Identify potential complications and prognostic factors of facial nerve palsy.	ENT	Facial Nerve Palsy
ENT1-Ear-008	Describe following surgical procedures used in treatment of ear diseases and mention their indications. i. Myringotomy ii. Myringoplasty iii. Tympanoplasty iv. Cortical mastoidectomy v. Modified radical mastoidectomy vi. Radical Mastoidectomy	ENT	Surgical Procedures of Ear

THEORY			
EYE-I			
CODE	SPECIFIC LEARNING OUTCOMES	INTEGRATING DISCIPLINE	TOPIC
Eye1- 001	Describe the clinical presentation of orbital cellulitis. Enlist the common causes of orbital cellulitis. Outline the management plan for a patient with orbital cellulitis. List the potential complications of orbital cellulitis. Differentiate between different causes of Proptosis (Thyroid eye disease, IOID, Fungal, Tumors) Describe the clinical presentation of a blowout fracture Explain management of a Blowout Fracture	Ophthalmology	Orbit
Eye1-002	Explain the mechanism of tear production and drainage in the lacrimal apparatus. Differentiate between epiphora and lacrimation based on underlying mechanisms.	Ophthalmology	Lacrimal Apparatus
	Enumerate the symptoms and signs of acute and chronic dacryocystitis. List the causes of acute and chronic dacryocystitis Explain the pathophysiology of acute and chronic dacryocystitis. Outline the management plan for acute and chronic dacryocystitis. Describe causes, clinical presentation, and treatment of dacryoadenitis.	Ophthalmology	
Eye1-003	Differentiate between ectropion and entropion on the basis of clinical features. Enlist the clinical features of ectropion and entropion. Enlist clinical features of trichiasis and distichiasis. Discuss the management options for ectropion and entropion, trichiasis, distichiasis.	Ophthalmology	Eyelids
	Classify blepharitis. Identify the signs and symptoms of each type of blepharitis. Differentiate blepharitis from other eyelid conditions such as stye, chalazion and other eyelid swellings. Outline the management plan for blepharitis.	Ophthalmology	
	Describe the clinical presentation of stye. Differentiate stye from other eyelid swellings on the basis of clinical features and pathophysiology. List the etiological factors of stye. Outline appropriate treatment and patient advice.	Ophthalmology	
	Define chalazion and differentiate it from stye. Explain the underlying pathophysiology and causes. List the clinical features and possible complications. Outline the management options. Discuss preventive measures and patient counseling.	Ophthalmology	
	Define ptosis. (congenital and acquired) List the common causes of ptosis. Identify clinical conditions associated with ptosis. Describe surgical and non-surgical treatment options for ptosis.	Ophthalmology/ Medicine	

Eye1-004	Describe the clinical presentation of pterygium and pingecula. List the causes of pterygium and pingecula Outline the medical and surgical management of pterygium and pingecula. Discuss preventive measures and patient counseling.	Ophthalmology	Conjunctiva
	Classify conjunctivitis based on etiology. Describe the clinical presentation of infective conjunctivitis. (Bacterial, Viral, Trachoma) Identify possible differential diagnosis for 'pink eye'. Outline the management plan of infective conjunctivitis. Describe the clinical presentation for allergic conjunctivitis. List the causes of allergic conjunctivitis. Outline the treatment plan for allergic conjunctivitis.	Ophthalmology	
	Define 'dry eyes'. Explain the pathophysiology of dry eyes. Identify the clinical conditions associated with dry eyes. Discuss the treatment options for dry eyes.		
Eye1-005	Diagnose episcleritis based on characteristic clinical findings. Explain the pathophysiology of episcleritis. Outline the treatment plan, including supportive care and pharmacological options. Differentiate episcleritis from scleritis and other causes of red eye.	Ophthalmology	Sclera
	Diagnose scleritis based on clinical features, including severity and pattern of pain and redness. Explain the pathophysiology of scleritis. Outline the management strategies, including systemic therapy and monitoring for complications.	Ophthalmology	
Eye1-006	Classify keratitis based on etiology. Describe signs and symptoms of keratitis. Outline the treatment options of keratitis based on etiology. Discuss the complications of keratitis.	Ophthalmology	Cornea
	Diagnose corneal ulcers based on etiology (bacterial, viral, fungal, acanthamoeba, autoimmune) symptoms, signs, specific investigations, and slit lamp exam. Explain the etiology of corneal ulcers along with risk factors. List the complications of corneal ulcers. Discuss the management of corneal ulcers according to etiology along with the preventive measures. Describe the common indications and contraindications for contact lens use. Identify common complications related to contact lens wear. Outline preventive measures to avoid contact lensrelated ocular problems.	Ophthalmology	
	Define photorefractive surgery and list its common types (e.g., Femto LASIK, LASIK, PRK, TPRK). List the indications and contraindications for photorefractive surgery. Identify the complications of photorefractive surgery. Outline postoperative care and patient counseling points.	Ophthalmology	
	Define keratoconus and describe its pathophysiology. List the risk factors associated with keratoconus. Identify the clinical features and signs of keratoconus. Discuss the management options for keratoconus including preventive strategies to slow disease progression.	Ophthalmology	

BLOCK - 10

(CFRC) CLERKSHIPS ROTATION FOUNDATION CLINICAL SKILLS



MODULE NO:24	
COMMUNITY MEDICINE	
Code	COMMUNITY VISIT
	Skills/Task
CFRC4-CM-001	<p>Factory/hospital visit to observe occupational health hazards:</p> <ul style="list-style-type: none"> Observe the occupational health hazards associated with industrial processes. Observe safe practices and educate the workers during the factory visit (e.g., use of PPE, adherence to safety instructions). Observe and report potential sources of environmental and occupational hazards. (Report writing)
CFRC4-CM-002	<p>Training and implementation of data collection for research:</p> <ul style="list-style-type: none"> Collect data according to the research question (e.g., patient demographics, symptoms, community health practices). Record the data accurately. Ensure ethical practices during data collection (e.g., taking consent, maintaining confidentiality).
CFRC4-CM-003	<p>Data analysis hands on training:</p> <ul style="list-style-type: none"> Analyze data using SPSS software. Compile a structure survey report.
CFRC4-CM-004	<p>School visit: Record anthropometric measurements (height, weight, BMI, mid-upper arm circumference) of school-going children. Recognize environmental and social factors at school that may influence nutrition (e.g., hygiene, school meals, junk food availability). Create awareness among children and teachers on healthy eating practices and prevention of malnutrition. Assess knowledge and practices of adolescent school girls regarding menstrual health. Identify common menstrual health problems (e.g., dysmenorrhea, poor hygiene practices, anemia). Counsel adolescent girls on menstrual hygiene, nutrition, and breaking myths/taboo. Document and report findings from the school visit.</p>
FAMILY HEALTH	
Code	Skills/Task
CFRC4-FH-001	<p>Presenting complaint: Headache</p> <ul style="list-style-type: none"> Assess a patient with headache through focused history, general and neurological examination, relevant ENT/sinus examination, and identification of psychosocial or lifestyle triggers. Provide symptomatic treatment and counsel patients regarding lifestyle modifications, trigger avoidance, and non-pharmacological measures. (under supervision) Identify and refer urgently when warning signs are present.
CFRC4-FH-002	<p>Presenting complaint: Fever</p> <ul style="list-style-type: none"> Take a focused history of fever (onset, duration, pattern, associated symptoms, and relevant risk factors). Perform examination, noting vitals, hydration status, pallor, and other systemic findings. Measure and interpret body temperature using a thermometer. Provide initial symptomatic management counseling, and guidance on when to seek urgent medical care. (under supervision) Administer I/M and S/C injection under supervision or practice on manikin.
CFRC4-FH-003	<p>Paediatrics History Taking Skills</p> <ul style="list-style-type: none"> Take history of unwell child including feeding, immunization, and developmental milestones. Measure and interpret weight, height, and mid upper arm circumference. Plot growth chart and calculate body mass index. Counsel parents of an unwell child by explaining the condition, treatment plan, home care, and warning signs. (under supervision)
CFRC4-FH-004	<p>Presenting complaint: Generalized weakness and weight loss</p> <ul style="list-style-type: none"> Take history related to weakness and weight loss. Perform general physical examination including assessment for pallor, lymph node enlargement, and thyroid gland. Measure and record body mass index. Interpret capillary blood glucose levels.

CFRC 4-FH- 005	<p>Presenting complaint: Urogenital symptoms</p> <ul style="list-style-type: none"> • Take a focused history of urogenital symptoms (dysuria, frequency, hematuria, abnormal discharge, pain, fertility concerns, menstrual/obstetric history where relevant). • Perform an abdominal examination relevant to urinary and reproductive complaints. • Perform and interpret a urine dipstick test accurately. • Identify red flag features requiring urgent referral. (under supervision)
CFRC4-FH-006	<p>Common skin lesions</p> <ul style="list-style-type: none"> • Inspect common skin lesions presented in OPD. • Perform wound dressing and care. (under supervision)
CFRC4-FH-007	<p>Geriatrics History Taking Skills</p> <ul style="list-style-type: none"> • Take history from an elderly patient of presenting complaints, comorbidities, medications, nutrition, and social support. • Perform basic functional assessment of mobility and activities of daily living. • Counsel patients and caregivers regarding lifestyle modification, nutrition, medication adherence, and fall prevention. • Identify red flag issues that need urgent attention or referral. • Apply splint or bandage for simple falls or sprains. (under supervision)

MODULE NO: 25	
GIT & NUTRITION-II	
Code	Clinical Skills/Task
CFRC4-GIT2-001	Prepare and present gastrointestinal cases (gastroesophageal reflux disease, acid peptic disease, peptic ulcer, gastritis, irritable bowel syndrome, inflammatory bowel disease (Crohn's disease and ulcerative colitis), hepatitis, cirrhosis of liver, gallstones, acute pancreatitis, colorectal carcinoma) for case-based discussion, including history, examination, differentials, and initial management.
CFRC4-GIT2-002	Abdominal examination Perform abdominal examination including inspection, palpation, percussion, and auscultation, and interpret findings.
CFRC4-GIT2-003	Nasogastric tube insertion Observe and assist in nasogastric (NG) tube insertion and feeding. Demonstrate and narrate the method to check NG tube patency and placement confirmation.
CFRC4-GIT2-004	Digital rectal examination Demonstrate digital rectal examination (DRE) and interpret findings.
CFRC4-GIT2-005	Ascites Perform clinical examination to detect ascites (shifting dullness, fluid thrill). Interpret clinical findings to differentiate ascites from other causes of abdominal distension.
CFRC4-GIT2-006	Investigations Interpret common laboratory and ultrasound investigations in gastrointestinal diseases, including LFTs, viral hepatitis profile, serum amylase/lipase, stool tests, and abdominal ultrasound findings.
CFRC4-GIT2-007	Liver palpation Perform palpation of the liver to determine its size, consistency, tenderness, and surface characteristics. Identify clinical signs of hepatomegaly. Differentiate between normal and abnormal liver findings on palpation.
CFRC4-GIT2-008	Spleen palpation Examine and palpate the spleen to assess size, tenderness, and clinical abnormalities.
CFRC4-GIT2-009	GI endoscopy & colonoscopy Observe the procedure of upper GI endoscopy and colonoscopy. Observe the indications, steps of patient preparation, and abnormal findings.
CFRC4-GIT2-010	Prescription writing Write prescriptions for following: i. Acid Peptic Disease ii. GERD iii. Acute Infectious Diarrhea iv. Acute Gastroenteritis with Vomiting v. Irritable Bowel Syndrome (IBS) vi. Constipation vii. Hemorrhoids
CFRC4-GIT2-011	Peritoneal tap Observe the procedure of a peritoneal tap, including patient preparation, aseptic technique, and procedural steps.
CFRC4-GIT2-012	Counsel patients on diet, nutrition, and lifestyle modifications relevant to common gastrointestinal disorders.

MODULE NO: 26	
EYE & ENT-I	
Code	EAR
	Clinical Skills/Task
CFRC4-Ear1- 001	<p>History taking</p> <ul style="list-style-type: none"> • Take focused ENT history in a structured and concise manner. <p>Clinical Examination Skills</p> <ul style="list-style-type: none"> • Inspect and palpate external ear. • Examine for mastoid tenderness and fistula test. • Perform otoscopic examination. • Perform a basic hearing assessment (whisper test, free-field voice test). • Perform tuning fork tests (Rinne's test, Weber's test, Absolute Bone Conduction test). • Assess cranial nerves related to ear pathology (VII, VIII). • Interpret audiogram and tympanogram (basic level). • Identify red flags in ear symptoms (sudden hearing loss, vertigo with neurological signs, facial nerve palsy). • Perform aural toilet / ear syringing for wax and foreign body removal under supervision. • Demonstrate first aid measures for acute ear trauma / bleeding. • Narrate the steps of initial management in acute mastoiditis and suspicion of complications. • Identify Nystagmus using clinical methods. • Assess Vestibulo cerebellar function using clinical methods. <p>Counselling</p> <ul style="list-style-type: none"> • Explain common ear procedures to patients in simple language. • Take informed consent. • Counsel patients on preventive measures.
Code	EYE-I
	Clinical Skills/Task
CFRC4-Eye1-001	<p>Ophthalmic History Taking</p> <ul style="list-style-type: none"> • Take focused ophthalmic history in a structured and concise manner <p>Eye examination skills and procedures</p> <ul style="list-style-type: none"> • Perform visual acuity assessment (near, far, pinhole, color vision, Amsler grid). • Inspect and palpate the adnexa. • Inspect the anterior segment and anterior segment diseases of the eye with torch light. • Demonstrate eversion of the upper eyelid. • Observe regurgitation test for lacrimal passage patency. • Perform distant direct ophthalmoscopy <p>OPD clinical examination instruments/ machines</p> <p>Observe the functioning of the autorefractometer and slit lamp.</p>

BLOCK - 10

PERL PROFESSIONALISM ETHICS, RESEARCH LEADERSHIP SKILLS



BLOCK 10: 4TH YEAR MBBS

PROFESSIONALISM			
Block	Topic	Learning Objectives	Teaching mode/Task
X	PERL-I Social accountability	Discuss the concept of social accountability in healthcare, focusing on the responsibility of healthcare professionals to address the community's health needs and contribute to public well-being.	Students presentations on said topics.
	PERL-II Addressing a local health issue as health professional	Analyze a local health issue and formulate a concise action plan describing how healthcare professionals can contribute to addressing it.	Students presentations on said topics.
	PERL-III A Professional Doctor	Demonstrate a professional doctor-like persona by adopting appropriate clinical attire, maintaining confident and respectful body language, and communicating with patients and colleagues clearly, empathetically, and ethically.	

ETHICS			
Block	Topic	Learning Objectives	Teaching mode/Task
X	PERL-IV Principles of Community Ethics	Learn the ethical principles that guide community health practices, including respect for autonomy, justice, and fairness in allocating health resources.	Students presentations on said topics.
		Evaluate an ethical dilemma in community healthcare (e.g., vaccination distribution or resource allocation) and propose a solution based on ethical principles.	Students presentations on said topics.
	PERL-V Organ Transplant Ethics	Describe ethical principles involved in organ transplantation, including issues related to patient autonomy, consent, allocation of scarce resources, and cultural/religious perspectives on organ donation.	Interactive lecture
	PERL-VI Equitable Access to Care	Discuss the ethical principles of equitable access to eye care services, focusing on the challenges and responsibilities of providing fair healthcare to all patients, regardless of socio-economic status, geographic location, or cultural background.	Interactive lecture
		Case study of successful equitable access to care.	Case based discussion

RESEARCH			
Block	Topic	Learning Objectives	Teaching mode/Task
X	Data collection	Collect data in field/clinical settings. Apply quality control during data collection.	Group work
	Data Management using Excel/SPSS	Perform data entry, and basic analysis using software. Enter and manage data using Excel/SPSS basics. Explain basics of descriptive statistics (mean, median, mode, SD, rates). Interpret outputs (frequencies, charts, pvalues, CI, chi-square, t-test). Discuss the principles of inference and significance.	Interactive lecture/ hands on training

LEADERSHIP			
Block	Topic	Learning Objectives	Teaching mode/Task
X	PERL-VII Professional Identity Formation	Explore professional identity formation through the lens of the PMDC 7-Star Doctor framework, reflecting on the essential roles of a healthcare professional and conducting a self-assessment of progress in these areas. Perform a self-rating based on their current professional development, identifying areas for growth in the PMDC 7-star Doctor Framework.	Interactive lecture

STUDENT PORTFOLIO

ASSIGNMENT



Roll No:	
Assignment Topic:	
Date:	
Submit a self-assessment based on the PMDC 7-Star Doctor competencies. Reflect on your strengths and areas for improvement in each role, and propose a personal action plan for further development in the areas where you feel least confident	
Facilitator Remarks:	

