

BLOCK-10

Year-04 MBBS

Integrated Module Study Guide

Module 24: Community Medicine & Family Health-II

Module 25: GIT & Nutrition-II

Module 26: Eye & ENT-I

Islam Medical College, Sialkot

C2K23 Curriculum | 2026-2027

INTRODUCTION

Medical education is a life-long process and the MBBS curriculum forms part of the continuum of education extending from pre-medical studies through MBBS, house job, and post-graduation. PM&DC outlines guiding principles for undergraduate medical curriculum and has defined generic competencies and desired outcomes for a medical graduate to provide optimal health care, leading to better health outcomes for patients and communities.

This Study Guide is designed to provide Year 4 MBBS students with a clear roadmap for their Block10, covering all aspects of the academic program me including learning objectives, teaching strategies, clinical skills, assessment methods, and examination regulations.

PURPOSE OF GUIDE

- To facilitate undergraduate students to learn the subject of Ophthalmology in an effective and structured manner.
- To provide clarity regarding the organization of the learning programe , including lectures, clinical rotations, and self-directed study.
- To guide students in managing their studies through the academic block.
- To provide detailed guidance on assessment methods, examination rules, and regulations aligned with PMDC requirements.
- To align all learning and assessment activities with Programme Learning Outcomes (PLOs) and CanMEDS 2015 competency framework.

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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 groundbreaking research.

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Principal

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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.

”

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CURRICULAR OUTCOMES

Programme Learning Outcomes (PLOs) | Block-10 | Year-04 MBBS

The PLOs are articulated in view of the desirable competencies of our graduates. The following PLOs of the MBBS Programme highlight the attributes expected amongst graduates upon completion, and are aligned with the specific outcomes of Block-10 modules.

PLO	Programme Learning Outcome	Domain	Aligned Block-10 Module Outcomes
PLO-1	Demonstrate the ability to independently manage non-critical clinical problems.	<i>Knowledge, Skill</i>	Apply clinical knowledge of GIT pathology to diagnose and manage common GIT conditions (M25). Formulate differential diagnosis and initial management plans for common ophthalmic conditions (M26).
PLO-2	Exhibit proficiency in life-saving procedures and the ability to assist in the management of critically ill patients.	<i>Skill</i>	Perform basic otorhinolaryngological examination techniques competently (M26-ENT). Apply fundamental clinical skills in eye examination, including visual acuity and ophthalmic instruments (M26-Ophth).
PLO-3	Adhere to ethical principles and display attributes such as honesty, integrity, and confidentiality.	<i>Attitude</i>	Identify psychological factors contributing to GIT disorders with empathy (M25). Critically appraise health systems and policies in relation to SDGs and Health for All (M24).
PLO-4	Conduct research that contributes to the advancement of medical knowledge and brings relevance to healthcare practices.	<i>Knowledge, Skill</i>	Apply biostatistical and epidemiological methods for evidence-based decision-making and research (M24). Describe the pathophysiology of major GIT diseases (M25).
PLO-5	Act as an efficient community health promoter by advocating for health promotion and disease prevention.	<i>Skill</i>	Develop and apply strategies for disaster preparedness, response, and recovery (M24). Understand the impact of GIT pathology in community health settings (M25). Integrate ophthalmic health into systemic diseases and public health considerations (M26).
PLO-6	Exhibit comprehensive scientific knowledge in all professional activities.	<i>Knowledge</i>	Analyze demographic principles and health indicators for population health planning (M24). Describe pathophysiology of major GIT diseases and integrate pharmacological treatment options (M25). Explain pathophysiology and clinical features of ENT and ophthalmic disorders (M26).
PLO-7	Demonstrate clear and efficient written and verbal communication skills to effectively	<i>Skills, Attitude</i>	Identify and diagnose ENT conditions through history-taking and

PLO	Programme Learning Outcome	Domain	Aligned Block-10 Module Outcomes
	communicate with patients, colleagues, and other healthcare professionals.		clinical evaluation (M26-ENT). Apply methods of data presentation including tables, graphs, and diagrams for health communication (M24).
PLO-8	Embrace a lifelong learning mindset to maintain expertise, keep up with advancements in medical practices, and improve professional development.	<i>Knowledge, Skill</i>	Critically appraise health systems, planning processes, and policies in the context of SDGs (M24). Appreciate the role of nutrition in maintaining and restoring GIT health (M25). Integrate knowledge of ophthalmic and ENT health across systemic and public health contexts (M26).

Note: M24 = Module 24 (Community Medicine & Family Health-II); M25 = Module 25 (GIT & Nutrition-II); M26 = Module 26 (Eye & ENT-I).

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BLOCK-10 OVERVIEW

Block Structure

Block-10 of the Fourth Year MBBS programme comprises three integrated modules delivered in Year-4. The block adopts an integrated, systems-based approach that connects clinical, pathological, pharmacological, and community medicine perspectives.

Module No.	Module Title	Subjects Integrated
Module 24	Community Medicine & Family Health-II	Family Medicine, Community Medicine
Module 25	GIT & Nutrition-II	Pathology, Pharmacology, Medicine, Surgery, Community Medicine
Module 26	Eye & ENT-I	Anatomy, Physiology, Pathology, Pharmacology, Oncology, Forensic Medicine

MODULE NO. 24: Community Medicine & Family Health-II

Module Rationale

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 community-based 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

- Family Medicine
- Community Medicine

SYLLABUS — COMMUNITY MEDICINE-II

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
CMFH2-CM-001	• Explain the basic concepts and uses of biostatistics. • Classify data according to its types. • Define and apply rates, ratios, and proportions in health contexts.	Community Medicine	Biostatistics & Health Management Information System	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	- 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	- Explain demographic principles and demographic processes. - Describe population pyramids and differentiate between those of developing and developed countries. - Interpret and apply population pyramids to analyze population structures. - 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.	Community Medicine	Demography & Population Dynamics	MCQs/Viva
CMFH2-CM-003	- Explain the concepts of occupational health, occupational medicine, and occupational hygiene. - Identify and classify physical, chemical, biological, mechanical, and psychosocial workplace hazards.	Community Medicine	Occupational Health	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	- 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. - Describe and explain disaster cycle and its phases. - Explain the epidemiology and preventive strategies of communicable diseases during disaster. - Describe impact of man-made disasters. - Explain and apply the principles of triage in disaster situations.	Community Medicine	Disaster Management & Accidents	MCQs/Viva
CMFH2-CM-005	- Define health planning and apply its relevance in healthcare delivery. - Describe the steps of the health planning cycle. - Discuss key management methods and techniques used in health planning.	Community Medicine	Health Planning & Management	MCQs/Viva

SYLLABUS — FAMILY HEALTH-II

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
CMFH2-FM-001	- Define and classify headache. - Diagnose the following based on signs and symptoms: - Migraine (with/without aura) - Tension-type headache - Cluster headache - Identify red flags. - List the common causes of secondary headache including intracranial and systemic.	Family Medicine / Neurology / Medicine	Headache	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	- 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. - 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.	Family Medicine / Medicine	Fever	MCQs/Viva
CMFH2-FM-003	- List the common causes of an unwell child presentation. - 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	Family Medicine / Paediatrics	Unwell Child	MCQs/Viva
CMFH2-FM-004	- Enlist the common mental health disorders relevant to general practice. - Outline the key signs and symptoms important for early detection of psychiatric conditions.	Family Medicine / Psychiatry	Mental Health	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	- 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.			
CMFH2-FM-005	- Enlist common causes of 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.	Family Medicine / Medicine	Generalized Weakness & Weight Loss	MCQs/Viva
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.	Family Medicine / Nephrology / Urology	Urogenital Symptoms (Male & Female)	MCQs/Viva
CMFH2-FM-007	- Diagnose common skin fungal infections based on clinical presentation and outline their primary care management. - 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	Family Medicine / Dermatology	Skin Conditions (Common OPD Cases)	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	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. - 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.	Family Medicine / Medicine	Common Geriatric Issues	MCQs/Viva

CLINICAL SKILLS (CFRC) — MODULE 24

CFRC 4-FH: Family Health Clinical Skills

Code	Clinical Skills / Task
CFRC 4-FH-001	Presenting complaint: Headache - 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.
CFRC 4-FH-002	Presenting complaint: Fever - 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.

Code	Clinical Skills / Task
CFRC 4-FH-003	Paediatrics History Taking Skills - 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).
CFRC 4-FH-004	Presenting complaint: Generalized weakness and weight loss - 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	Presenting complaint: Urogenital symptoms - 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).
CFRC 4-FH-006	Common skin lesions - Inspect common skin lesions presented in OPD. - Perform wound dressing and care (under supervision).
CFRC 4-FH-007	Geriatrics History Taking Skills - 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).

CFRC 4-CM: Community Medicine Visit Skills

Code	Clinical Skills / Task
CFRC 4-CM-001	Factory/Hospital Visit: - 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).
CFRC 4-CM-002	Training and implementation of data collection for research: - Collect data according to the research question (e.g., patient demographics, symptoms, community health practices). - Record the data accurately.

Code	Clinical Skills / Task
	Ensure ethical practices during data collection (e.g., taking consent, maintaining confidentiality).
CFRC 4-CM-003	Data analysis hands-on training: - Analyze data using SPSS software. - Compile a structured survey report.
CFRC 4-CM-004	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.

PROFESSIONAL, ETHICS, RESEARCH, LEADERSHIP (PERLs) — MODULE 24

Domain	Topic	Learning Objectives	Teaching Mode / Task
PROFESSIONALISM	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.	<i>Student presentations</i>
PROFESSIONALISM	Addressing a local health issue as a health professional	Analyze a local health issue and formulate a concise action plan describing how healthcare professionals can contribute to addressing it.	<i>Student presentations</i>
PROFESSIONALISM	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.	<i>Observed practice</i>
ETHICS	Principles of Community Ethics	- Learn the ethical principles that guide community health practices, including respect for autonomy, justice, and fairness in allocating health resources. - Evaluate an ethical dilemma in community healthcare (e.g.,	<i>Student presentations</i>

Domain	Topic	Learning Objectives	Teaching Mode / Task
		vaccination distribution or resource allocation) and propose a solution based on ethical principles.	
ETHICS	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.	<i>Interactive lecture</i>
ETHICS	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. - Case study of successful equitable access to care.	<i>Interactive lecture</i>
RESEARCH	Data collection	- Collect data in field/clinical settings. - Apply quality control during data collection.	<i>Group work</i>
RESEARCH	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, p-values, CI, chi-square, t-test). - Discuss the principles of inference and significance.	<i>Interactive lecture / hands-on training</i>
LEADERSHIP	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.	<i>Interactive lecture / Self-assessment</i>

MODULE NO. 25: GIT & Nutrition-II

Module Rationale

GIT and Nutrition-II shifts focus to the pathological basis and clinical aspects of gastrointestinal and nutritional disorders. Building on foundational GIT knowledge from earlier years, this module emphasizes disease mechanisms, characteristic pathological features, clinical presentations, diagnostic approaches, and evidence-based management of common and significant GIT conditions. Nutritional aspects — including deficiencies and metabolic derangements — are 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

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

THEORY — ORAL CAVITY & SALIVARY GLAND TUMORS

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
GIT2-Pa-001	Classify and describe the morphological features of oral infectious diseases.	Pathology	Oral Infectious Diseases	MCQs/Viva
GIT2-Pa-002	Describe briefly benign, premalignant, and malignant oral lesions.	Pathology	Oral Lesions	MCQs/Viva
GIT2-Pa-003	Classify salivary gland tumors into benign and malignant types.	Pathology	Salivary Gland Tumors	MCQs/Viva
GIT2-Pa-004	Discuss the histopathological features of pleomorphic adenoma and Warthin's tumors.	Pathology	Pleomorphic Adenoma	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
GIT2-Pa-005	Differentiate the pathological features of common malignant salivary gland tumors.	Pathology	Malignant Salivary Gland Tumors	MCQs/Viva
GIT2-Pa-006	Explain the role of immunohistochemistry and other diagnostic tools in differentiating between various salivary gland tumors.	Pathology	Diagnostic Tools	MCQs/Viva

THEORY — ESOPHAGUS

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
GIT2-Pa-007	Discuss in detail the pathological causes of esophageal obstruction.	Pathology	Esophageal Obstruction	MCQs/Viva
GIT2-Pa-008	Enumerate and describe the pathogenesis of different types of esophagitis.	Pathology	Esophagitis	MCQs/Viva
GIT2-Pa-009	Describe the pathogenesis of esophageal varices.	Pathology	Esophageal Varices	MCQs/Viva
GIT2-Pa-010	Describe in detail the morphology of Barrett's esophagus with major complications.	Pathology	Barrett's Esophagus	MCQs/Viva
GIT2-Pa-011	- Classify esophageal tumors. - Describe the pathogenesis and morphology of adenocarcinoma and squamous cell carcinoma of the esophagus.	Pathology	Esophageal Tumors	MCQs/Viva
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	MCQs/Viva
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	GERD	MCQs/Viva
GIT2-GE-014	Diagnose achalasia on the basis of characteristic symptoms and clinical presentation.	Gastroenterology / Medicine	Achalasia	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	- 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.			
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.	Gastroenterology / Medicine	Esophageal Candidiasis	MCQs/Viva
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	MCQs/Viva

THEORY — STOMACH & DUODENUM

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
GIT2-Pa-017	Describe the pathogenesis and morphology of acute gastritis.	Pathology	Acute Gastritis	MCQs/Viva
GIT2-Pa-018	- Enumerate the causes of chronic gastritis with special emphasis on the pathogenesis of H. Pylori gastritis and autoimmune gastritis. - Describe the differentiating features of H. Pylori and autoimmune gastritis.	Pathology	Chronic Gastritis	MCQs/Viva
GIT2-Pa-019	Describe the pathogenesis, morphology, and complications of peptic ulcer disease.	Pathology	Peptic Ulcer Disease	MCQs/Viva
GIT2-Pa-020	Discuss in detail the hypertrophic gastropathies.	Pathology	Hypertrophic Gastropathies	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
GIT2-Pa-021	Describe the important features of fundic gland, inflammatory, hyperplastic polyps, and gastric adenomas.	Pathology	Gastric Polyps & Adenomas	MCQs/Viva
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	MCQs/Viva
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	MCQs/Viva
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	MCQs/Viva
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	MCQs/Viva
GIT2-GE-026	- Diagnose acid peptic disease based on symptoms, clinical presentation, and risk factors. - Explain the role of <i>Helicobacter pylori</i> in the pathogenesis of acid peptic disease.	Gastroenterology / Medicine	Acid Peptic Disease	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	Plan the diagnostic workup and management options.			
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	MCQs/Viva
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	MCQs/Viva
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 & Metabolic Surgery	MCQs/Viva
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	MCQs/Viva
GIT2-Ph-031	- Classify H2 receptor blockers. - Describe their pharmacokinetics, mechanism of action, pharmacological	Pharmacology	H2 Receptor Blockers	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	effects, uses, adverse effects, drug interactions, and contraindications.			
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)	MCQs/Viva
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	MCQs/Viva
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	MCQs/Viva

THEORY — SMALL & LARGE INTESTINE

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
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 & Large Intestines	MCQs/Viva
GIT2-Pa-036	Enumerate the common causative agents of infectious enterocolitis including bacterial, viral, and parasitic.	Microbiology	Causative Agents of Infectious Enterocolitis	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	Explain the pathogenesis of enterocolitis caused by Salmonella, Mycobacterium tuberculosis, and Clostridium difficile.			
GIT2-Pa-037	Describe the pathogenesis, microscopic and macroscopic features, and complications of Crohn's disease and Ulcerative colitis.	Pathology	Crohn's Disease & Ulcerative Colitis	MCQs/Viva
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: complications, genetic mutations, extra-gastrointestinal manifestations, and morphology.	Pathology	Intestinal Polyps	MCQs/Viva
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 & Colorectal Carcinoma	MCQs/Viva
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	MCQs/Viva
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 & Chronic)	MCQs/Viva
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	MCQs/Viva
GIT2-GE-043	Classify malabsorption syndromes.	Gastroenterology / Medicine	Malabsorption Syndromes	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	- Identify the symptoms and signs of malabsorption. - Enlist investigations to establish the diagnosis. - Describe treatment strategies for different 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 follow-up for monitoring and long-term management.	Gastroenterology / Medicine	Inflammatory Bowel Disease	MCQs/Viva
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)	MCQs/Viva
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	MCQs/Viva
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	MCQs/Viva
GIT2-GE-048	- Identify clinical presentation. - Outline investigations and treatment strategies for abdominal tuberculosis.	Gastroenterology / Medicine	Abdominal Tuberculosis	MCQs/Viva
GIT2-Ph-049	- Classify prokinetic drugs. - Describe their pharmacokinetics, mechanism of action, pharmacological effects, uses, adverse effects, drug interactions, and contraindications.	Pharmacology	Prokinetic Drugs	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
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 & Purgative	MCQs/Viva
GIT2-PS-051	- List causes of congenital (atresias, 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 & Intestinal Obstruction in Children	MCQs/Viva
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	MCQs/Viva
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 the two. - Outline principles of management with referral for treatment to Pediatric Surgical Setting.	Pediatric Surgery	Hernia (Inguinal & Umbilical) & Hydrocoele	MCQs/Viva
GIT2-PS-051c	- Define Phimosi s and Paraphimosis. - Differentiate physiological and pathological phimosi s. - Enumerate complications. - Outline management options.	Pediatric Surgery	Phimosi s & Paraphimosis	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
GIT2-PS-051d	- Define vesical and cloacal exstrophy. - Describe embryological basis. - Enumerate clinical features. - Outline management principles.	Pediatric Surgery	Vesical & Cloacal Exstrophy	MCQs/Viva

THEORY — HEPATOBILIARY SYSTEM

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
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	MCQs/Viva
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	MCQs/Viva
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 & Non-Alcoholic Fatty Liver Disease	MCQs/Viva
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.	Pathology	Pathogenesis of Hepatocellular Carcinoma	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	- Describe the differentiating features of HCC and cholangiocarcinoma along with immunohistochemistry. - Explain the pathogenesis and risk factors contributing to the development of cholangiocarcinoma.			
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	MCQs/Viva
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	MCQs/Viva
GIT2-Pa-058	Classify the neoplasms of the pancreas, precursor lesions to pancreatic cancers, and its morphology along with tumor markers.	Pathology	Pancreatic Cancers	MCQs/Viva
GIT2-GE-059	- Define jaundice and describe its major causes. - Differentiate between pre-hepatic, hepatic, and post-hepatic jaundice. - Outline investigations to reach diagnosis.	Gastroenterology / Medicine	Jaundice	MCQs/Viva
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 & Chronic Hepatitis	MCQs/Viva
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	MCQs/Viva
GIT2-GE-062	- Identify risk factors and describe the clinical course, progression, and outcomes of cirrhosis. - Differentiate between compensated and decompensated liver disease.	Gastroenterology / Medicine	Chronic Liver Disease	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	- Outline investigations and management strategies. - Enlist potential complications.			
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 & Genetic Disorders of Liver	MCQs/Viva
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	MCQs/Viva
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	MCQs/Viva
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 & Its Management	MCQs/Viva
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	MCQs/Viva

THEORY — SPLEEN

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
GIT2-GE-067	- Enumerate the causes of splenomegaly. - Describe the morphology of splenic congestion and splenic rupture.	Pathology	Morphology of Splenic Congestion	MCQs/Viva
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	MCQs/Viva

THEORY — HEALTH & NUTRITION

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
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 & Balanced Diet	MCQs/Viva
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 & Micronutrients	MCQs/Viva
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	MCQs/Viva
GIT2-CM-072	Discuss the nutritional requirements of children under 5 years of age.	Community Medicine	Nutritional Requirements	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	- 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.			
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	MCQs/Viva
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 & Safety	MCQs/Viva
GIT2-S-075	- Explain the importance of assessing perioperative nutritional status and its implications. - Describe the causes and complications of malnutrition in surgical patients. - Discuss fluid balance management in the perioperative setting. - Outline the nutritional requirements of surgical patients and options for nutritional support, including indications for enteral versus parenteral feeding. - Explain the nutritional consequences of intestinal resection.	Surgery	Perioperative Nutritional Management	MCQs/Viva

PRACTICAL / LAB WORK — MODULE 25

PRACTICAL — PATHOLOGY

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
GIT2-Pa-076	Identify the classical morphological features (gross and microscopic) of: Barrett's esophagitis, gastric carcinoma, Celiac disease, familial adenomatous	Pathology	Gastrointestinal Tract	Practical/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	polyposis, Peutz-Jegher's syndrome, adenocarcinoma colon, Crohn's disease, ulcerative colitis, acute appendicitis and salivary gland tumors (pleomorphic adenoma, Warthin's tumor).			
GIT2-Pa-077	- Identify the classical morphological features (gross and microscopic) of: fatty liver, liver cirrhosis, hepatocellular carcinoma, gall stones, and chronic cholecystitis. - Interpret the reports of abnormal liver function test and acute pancreatitis.	Pathology	Gallbladder & Pancreas	Practical/Viva

PRACTICAL — PHARMACOLOGY

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
GIT2-Ph-078	- Write down the prescription for: i. Acid Peptic Disease ii. Cancer chemotherapy induced vomiting iii. Motion sickness iv. Irritable bowel disease v. Inflammatory bowel disease vi. Diarrhea	Pharmacology	Gastrointestinal Tract	Prescription Writing

PROFESSIONAL, ETHICS, RESEARCH, LEADERSHIP (PERLs) — MODULE 25

Domain	Topic	Learning Objectives	Teaching Mode / Task
ETHICS	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.	<i>Interactive lecture</i>

MODULE NO. 26: Eye & ENT-I

ENT — Module Rationale

The inclusion of 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.

ENT — 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

- Anatomy
- Physiology
- Pathology
- Pharmacology
- Oncology
- Forensic Medicine

THEORY — ENT-I (EAR)

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
ENT1-Ear-001	• Classify the types of hearing loss. • Explain the pathophysiological mechanisms underlying hearing loss. • Differentiate between conductive and sensorineural hearing loss.	ENT	Hearing Loss	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	Describe the indications, benefits, and limitations of hearing implants.			
ENT1-Ear-002	- Diagnose Perichondritis of pinna on basis of clinical features and plan its management. - 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.	ENT	Diseases of the External Ear	MCQs/Viva
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. - 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. - 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 the Middle Ear	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
ENT1-Ear-004	- 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.	ENT	Diseases of the Inner Ear	MCQs/Viva
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	MCQs/Viva
ENT1-Ear-006	- Identify clinical features of Glomus tumor. - Enlist investigations. Discuss management options. - Describe clinical features of temporal bone trauma. - Enlist its possible complications. - Outline relevant investigations and initial management plan.	ENT	Glomus Tumor & Temporal Bone Trauma	MCQs/Viva
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	MCQs/Viva
ENT1-Ear-008	Describe the following surgical procedures used in treatment of ear diseases and mention their indications:	ENT	Surgical Procedures of Ear	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	i. Myringotomy ii. Myringoplasty iii. Tympanoplasty iv. Cortical mastoidectomy v. Modified radical mastoidectomy vi. Radical Mastoidectomy			

Ophthalmology — Module Rationale

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.

Ophthalmology — Module Outcomes

- Identify common ophthalmic diseases and disorders encountered in OPD, IPD, multi-disciplinary 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 — Ophthalmology

- Medicine
- Oncology
- Pharmacology
- Forensic Medicine
- Rheumatology

THEORY — EYE-I

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
Eye1-001	• Describe the clinical presentation of orbital cellulitis. • Enlist the common causes of orbital cellulitis.	Ophthalmology	Orbit	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	- 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.			
Eye1-002	- Explain the mechanism of tear production and drainage in the lacrimal apparatus. - Differentiate between epiphora and lacrimation based on underlying mechanisms. - 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	Lacrimal Apparatus	MCQs/Viva
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. - 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. - 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. - Define chalazion and differentiate it from stye. - Explain the underlying pathophysiology and causes. - List the clinical features and possible complications. Outline the management options. - Define ptosis (congenital and acquired). List the common causes of ptosis.	Ophthalmology	Eyelids	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	- Identify clinical conditions associated with ptosis. - Describe surgical and non-surgical treatment options for ptosis. - 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.			
Eye1-004	- 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. - Define 'dry eyes'. - Explain the pathophysiology of dry eyes. - Identify the clinical conditions associated with dry eyes. - Discuss the treatment options for dry eyes.	Ophthalmology	Conjunctiva	MCQs/Viva
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. - 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	Sclera	MCQs/Viva
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. - 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.	Ophthalmology	Cornea	MCQs/Viva

Code	Specific Learning Outcomes	Integrating Discipline	Topic	Assessment
	- 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 lens-related ocular problems. - 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. - 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.			

CLINICAL SKILLS (CFRC) — MODULE 26

CFRC 4-Ear1-001: ENT (Ear) Clinical Skills

Code	Clinical Skills / Task
CFRC 4-Ear1-001	History taking: Take focused ENT history in a structured and concise manner. Clinical Examination Skills: - 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).

Code	Clinical Skills / Task
	- 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. Counselling: - Explain common ear procedures to patients in simple language. - Take informed consent. - Counsel patients on preventive measures.

CFRC 4-Eye1-001: Ophthalmology (Eye-I) Clinical Skills

Code	Clinical Skills / Task
CFRC 4-Eye1-001	Ophthalmic History Taking: Take focused ophthalmic history in a structured and concise manner. Eye examination skills and procedures: - 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. OPD clinical examination instruments/machines: Observe the functioning of the autorefractometer and slit lamp.

PROFESSIONAL, ETHICS, RESEARCH, LEADERSHIP (PERLs) — MODULE 26

Domain	Topic	Learning Objectives	Teaching Mode / Task
ETHICS	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. - Case study of successful equitable access to care.	<i>Interactive lecture</i>
LEADERSHIP	Professional Identity Formation	Explore professional identity formation through the lens of the PMDC 7-Star Doctor framework, reflecting on the	<i>Interactive lecture / Self-assessment</i>

Domain	Topic	Learning Objectives	Teaching Mode / Task
		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.	

ASSESSMENT OVERVIEW

Assessment Methods

Assessment Type	Description	Application	Modules
MCQs	Multiple choice questions testing knowledge and application of learning outcomes	Written examinations	All Modules
Viva Voce	Oral examination assessing depth of understanding and clinical reasoning	End of module assessment	All Modules
LGIS/SGD	Large Group Interactive Sessions and Small Group Discussions for formative learning	Throughout the block	All Modules
Practical / Lab Work	Identification of gross and microscopic pathological specimens; prescription writing	Laboratory sessions	Module 25
Portfolio	Reflection, case logs, and professional development documentation	Continuous throughout year	All Modules

FORMATIVE AND SUMMATIVE EXAMINATION RULES AND REGULATIONS

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						

Examination Duration

- **Theory:** 2 hour 30minutes
- **OSCE/OSPE:** 6minutes per station
- **Short Case :** 10 minutes per case

Internal Assessment

Internal Assessment shall constitute **20% of the total assessment** at the end of the academic year

Attendance Requirements

- Minimum 75% attendance is mandatory for appearance in final professional examination (PMDC regulation).
- Students with attendance below 75% will be declared ineligible (detained) for the professional examination.
- Attendance is recorded for both theory lectures and clinical rotations separately.
- Students with attendance 75–84%: eligible for examination with 1% internal assessment credit.
- Students with attendance $\geq 85\%$: eligible with 2% internal assessment credit

Recommended Resources

Module 24 — Community Medicine

- Park's Textbook of Preventive & Social Medicine (K. Park)
- Davidson's Principles & Practice of Medicine
- Oxford Handbook of General Practice

Module 25 — GIT & Nutrition-II

- Robbins & Cotran Pathologic Basis of Disease
- Katzung's Basic & Clinical Pharmacology
- Harrison's Principles of Internal Medicine
- Bailey & Love's Short Practice of Surgery
- Sherris Medical Microbiology

Module 26 — Eye & ENT-I

- Logan Turner's Diseases of the Nose, Throat and Ear
- Kanski's Clinical Ophthalmology
- Scott-Brown's Otolaryngology, Head and Neck Surgery
- Parson's Diseases of the Eye

WORKSHOP SCHEDULE

Skill Acquisition Workshops for MBBS Students

The following Skill Acquisition Workshops are included in the Modular Integrated Curriculum 2K23 Final Version. Completion of these workshops is mandatory for eligibility in the respective professional and clerkship examinations.

Sr. No.	Course Name	Academic Year	Duration	Eligibility
1.	Basic Life Support	1st Year / 2nd Year	2 days	Eligibility requirement for appearing in the 4th Professional Examination
2.	Advanced Life Support	3rd Year / 4th Year	1 day	Eligibility requirement for appearing in the Surgical Clerkship examination
3.	Cardiac First Response	3rd Year / 4th Year	1 day	Eligibility requirement for appearing in the Medicine Clerkship examination
4.	Trauma First Responders	3rd Year / 4th Year	1 day	Eligibility requirement for appearing in the Surgical Clerkship examination
5.	Emergency Neonatal Resuscitation	3rd Year / 4th Year	1 day	Eligibility requirement for appearing in the Pediatrics Clerkship examination
6.	Emergency Obstetrics Resuscitation	3rd Year / 4th Year	1 day	Eligibility requirement for appearing in the Gynecology / Obstetrics Clerkship Examination

BLOCK-10 TIMETABLE

□ Duration

11 Weeks

□ Institution

Islam Medical College, Sialkot

□ Programme

4th Year MBBS — Block 10

The schedule below covers lecture sessions, clinical ward rotations, and afternoon activities for the full 11-week block. Time slots are 8:00–9:00, 9:00–10:00, 10:00–11:00, 11:00–01:00 (Clinical Ward), 01:00–01:30 (Break), 01:30–03:00 (Afternoon sessions). A sampled timetable is given below:

ISLAMMEDICALCOLLEGE,SIALKOT						
TimeTablefor4 th YearMBBS						
Week 1						
Day	8:00-9:00	9:00-10:00	10:00-11:00	11:00-01:00	1:00-1:30	01:30-03:00
Monday 06/04/26	Community Medicine Biostat Dr Amjad	ENT Disease of external ear Dr ruqqiya	Medicine Dr hammad bhatti	ClinicalWard		Pathology A Pharmacology B Community Medicine C
Tuesday 07/04/26	Community Medicine Biostat Dr Amjad	ENT Hearing loss Dr Khalid	10:00-10:30	10:30-11:30	11:30-1:00	Pathology C Pharmacology A Community Medicine B
			Pathology Oral infections Dr ahsan	Fire & Safety drill	Clinical Ward	
Wednesday 08/04/26	Surgery Dr nouman	CommunityMedicine Health planning Dr sohail	10:00-11:00 Eye Orbital cellulitis Dr nawaz	11:00-01:00 ClinicalWard		Pathology B Pharmacology C Community Medicine A
	Medicine	Pathology	Eye	ClinicalWard	01:00-02:00	02:00-03:00

Thursday 09/04/26	Dr hammad bhatti	Salivary gland tumor I Dr ahsan	Proptosis Dr Shahid		Break	PERLS
						02:00-03:00
Friday 10/04/26	CFRC Department of Medicine	Community Medicine Biostat Dr Amjad	Paed Surgery Dr Usman Akram	Clinical Ward		Pharmacology Antacids Dr azan

Clinical Rotation Schedule

- Clinical rotation runs Monday to Friday, 11:00 AM– 1:00 PM (2 hours per day, 10 hours per week).
- Students are divided into small groups (6–8 per batch) rotating through: OPD clinic, slit-lamp sessions, minor operating Theatre, and ward rounds.
- Bedside teaching is conducted by Senior Registrars and Consultants with a structured clinical encounter format.
- must complete a minimum of 5 supervised DOPS and 4 Mini-CEX observations during the block.
- Clinical logbook must be signed by the supervising consultant after each encounter.

ROBUST FEEDBACK SYSTEMS

- Feedback on attendance is forwarded to students and parents on a regular basis through the departmental LMS and SMS notification system.
- Academic performance reports are regularly shared with students and parents.
- Individual students are given feedback on their academic performance in one-to-one sessions using the Pendleton Rules model.
- MCQ papers are discussed with students in small groups after each block assessment.
- Parents of students performing below the class average are regularly contacted by the departmental coordinator.
- All DOPS and Mini-CEX assessments include immediate structured feedback using standardized forms.
- OSCE debriefs are conducted as group sessions within 48 hours of the examination.

COUNSELLING

Counselling for Students will include:

- **Career Guidance**
- **Psychosocial Counselling**

Counselling Facilities for Students

- **Senior faculty members** from all concerned departments are actively involved in resolving academic and non-academic issues of allocated students.
- Individual students are also referred to the **institutional student counsellor** if needed.
- **Academic counselling sessions** are held at the end of each block assessment cycle to review performance, identify learning gaps, and set measurable targets.

Block Lead10, IMC Sialkot

Principal IMC: _____

