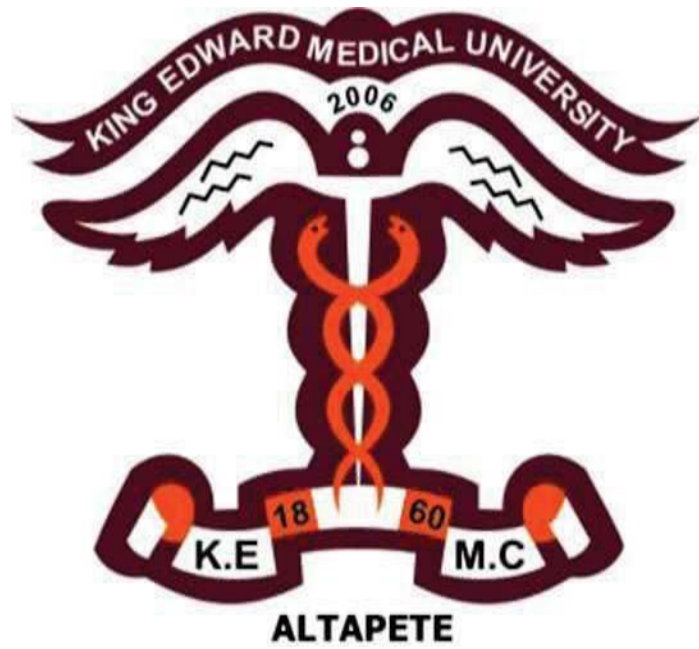




UNDERGRADUATE CURRICULUM

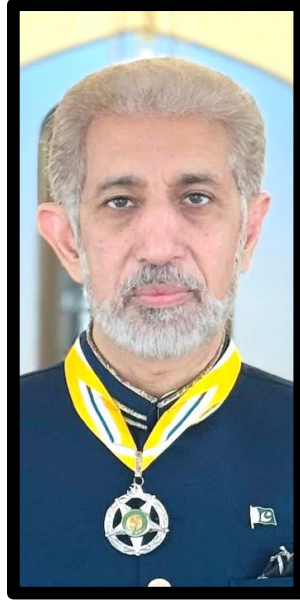
2025-26

**King Edward Medical
University**

Curriculum

for

**Undergraduate Medical Education
(MBBS)
2026**



Message from Vice Chancellor, KEMU

It gives me immense pleasure to present the revised MBBS Curriculum of King Edward Medical University, developed in accordance with the latest 2024 guidelines of the Pakistan Medical & Dental Council. This revised curriculum reflects our institutional commitment to excellence in medical education, innovation in teaching and learning, and responsiveness to the evolving healthcare needs of Pakistan and the global community.

This academic year marks a significant milestone in the history of the University with the introduction of a new modular and integrated curriculum for First Year MBBS students. The transition from a traditional discipline-based approach to a modern competency-based modular system has been undertaken to promote student-centered learning, horizontal and vertical integration of basic and clinical sciences, and early clinical exposure.

A key strength of this curriculum is the incorporation of Pakistan's National Health Vision (NHV) and the United Nations Sustainable Development Goals (SDGs), particularly those related to health and well-being, gender equity, quality education, nutrition, environmental sustainability, and reduction of health disparities. The curriculum has been carefully structured to address national priorities including maternal and child health, communicable and non-communicable diseases, mental health, preventive healthcare, universal health coverage, and community-oriented primary care.

I deeply appreciate the dedicated efforts of the faculty members, curriculum committees, academic leadership, clinicians, students, and stakeholders whose collective contributions made this important curriculum reform possible. Their commitment to advancing medical education in alignment with PMDC standards and global best practices is highly commendable.

VISION KEMU

The vision of King Edward Medical University is to be a renowned national and world class academia maintaining a leading role in medical education, innovative research and provision of best health care services of international standards.

MISSION KEMU

King Edward Medical University will prepare health professionals in accordance with the highest professional standards to practice evidence-based medicine, maintain international standards of patient-centered care within the healthcare delivery system, and produce research scholars who demonstrate excellence in knowledge, skills, and ethical values, empowered through community-oriented, self-directed learning and professional development.

Expected Competencies in Medical Graduates of KEMU

The expected generic competencies in a medical graduate are grouped under the umbrella of a seven-star doctor and are as follows:

1. Knowledgeable
2. Skillful
3. Professional
4. Scholar & Researcher
5. Critical thinker
6. Leader & Role model
7. Community Health Promotor

Allocated time

KEMU has a Five-year MBBS program, with a minimum of 6200 hours, 36 weeks per year.

King Edward Medical University MBBS Program Outcomes

1. Practice ethical, patient-centered, and evidence-based medicine.
2. Engage in research activities and critical inquiry.
3. Demonstrate strong clinical competence in diagnosis and patient management
4. Apply modern medical technologies and lifelong learning skills.
5. Demonstrate leadership, teamwork, and communication skills.
6. Engage in lifelong learning, reflective practice, and continuous professional development.
7. Recognize community health needs and contribute to public health improvement.
8. Demonstrate professionalism, ethical conduct, and effective communication.
9. Actively participate in sports, arts, and literary societies to cultivate physical well-being, emotional intelligence, and stress resilience.

The MBBS curriculum at King Edward Medical University prioritizes major national and global health challenges in accordance with Pakistan's National Health Vision and Sustainable Development Goals. Curriculum content, clinical rotations, community-based education, and assessment strategies collectively address communicable diseases, maternal and child health, non-communicable diseases, mental health, nutrition, preventive healthcare, patient safety, and health equity.

TEACHING METHODOLOGIES

Early Clinical Exposure (ECE) from the first year of professional education is included to facilitate understanding of basic sciences through applied and practical information transfer. The curricular plan spans a minimum of 6200 hours of teaching of medical subjects. Instructional tools for information transfer are student-centered to groom the student to be a self-directed learner.

Joint sessions of basic and clinical subjects are an integral component of the timetable, where facilitators from different specialties combine to exhibit clinical problem-solving through contributions from different learning domains.

Cognition:

- Interactive lecture
- Case-based learning
- Small group of discussions
- Group work by students
- Seminars
- Tutorials
- Videos

- Clinico-pathological conferences
- Symposiums
- Webinars
- Directed Self-Learning
- Self-learning
- Assignments

Psychomotor training:

- Workshops
- Skill labs
- Cadaveric dissection
- Models
- Laboratory work
- Bedside teaching
- Emergency or casualty department
- Operating theatres
- Ward rounds
- Community work

Attitude or behavior training:

- Videos
- Role plays
- Role modeling
- Workshops
- Group assignments

Assessment Methodologies

Assessing the learner is the most important and difficult task for the tutor as students may be able to walk away from not up to mark teaching, but they cannot avoid misaligned/bad assessment.

Assessment importance is not only for students but also for tutors, course/ syllabi organizers, and accrediting bodies. Assessment scores lead to important decisions affecting whether a student has achieved the prescribed learning outcomes, an appropriate level of mastery to be able to move onto the next level of their course/ programme, and, on completion, is competent enough to practice as a doctor.

As the integrated curriculum is theme or module-based, each module needs to be followed by an assessment to determine achievement of the learning outcomes defined for that module. Assessment is

both summative and formative, thereby using it for grading of students as well as for providing students with feedback to enhance and improve their learning. Knowledge, skill, and attitude learned during the module will need separate tools for assessment.

- Both formative and summative assessments is part of the curriculum.
- Summative assessments at the end of the session in the form of a professional examination include assessment of knowledge, skill, and attitude in accordance with their weightage in the curriculum.
- Diverse tools of assessment are used to ensure high validity and reliability.
- End-of-block/end-of-rotation assessments are planned in the curriculum during the year to promote learning.
- Results of these term/ end of block/end of rotation assessments get weightage in final result.

Tools Of Assessment

Cognitive domain:

- Multiple Choice Questions (MCQs)
- Structured Answer Questions (SAQs)
- Structured Essay questions (SEQs)
- Long Answer Question
- Oral Examination

Psychomotor domain:

- Formative assessment: (Low to Medium Stake)
- OSPE (Objective Structured Practical Examination)
- Mini-Clinical Evaluation Exercise (Mini-CEX)
- Surgical DOPS (Directly Observed Procedural Skills)
- Case-Based Discussion

Summative Exam

- MCQs
- Objective Structured Clinical Examination (OSCE)
- Practical examination.
- Long case
- Short case

Affective domain: (Behavior)

The following tools are used to assess behaviors, communication skills, Ethical practice and professionalism.

- Interviews
- OSPE/OSCE
- OSTE
- Portfolios
- Reflections

Programme Evaluation

Program Evaluation & Quality Assurance Framework

To ensure that the integrated MBBS curriculum remains dynamic and effectively produces physicians with the desired KEMU attributes, a multi-layered evaluation strategy is implemented.

1. Institutional Oversight: The Curriculum Evaluation Committee (CEC)

KEMU shall maintain a standing Curriculum Evaluation Committee, led by the Department of Medical Education (DME). This committee is mandated to:

- **Continuous Monitoring:** Conduct year-round evaluation of the modular integrated curriculum.

- **Outcome Assessment:** Determine the alignment between instructional strategies and the final graduation outcomes.
- **Data-Driven Reform:** Use evidence-based metrics to propose curriculum modifications to the Academic Council.

2. Quality Assurance Cell (QAC)

A dedicated **Institutional Quality Enhancement Cell** will act as the operational arm for program evaluation. The QEC is responsible for:

- Standardizing evaluation tools and metrics across all years of the MBBS program.
- Monitoring the implementation of the Internal Assessment (including logbooks and OSPEs) to ensure reliability and validity.

3. Stakeholder Engagement & Feedback Loops

KEMU recognizes students and faculty as primary partners in the educational process. The evaluation cycle includes:

- **Multi-Source Feedback:** Regular, structured feedback collected from students, faculty, and administrative staff regarding the feasibility of learning activities and resource availability.
- **Focus Group Discussions (FGDs):** Periodic qualitative sessions with students and teaching faculty to identify "on-ground" challenges that quantitative surveys might miss.
- **Stakeholder Surveys:** Annual reviews from clinical supervisors and alumni to ensure the curriculum meets the evolving needs of the healthcare sector.

4. The "Continuous Quality Improvement" (CQI) Cycle

The data gathered through the CEC and QAC is not merely archived but is used to fuel a proactive improvement loop:

- **Gap Analysis:** Identifying discrepancies between the planned curriculum and the delivered curriculum.
- **Modular Revisions:** Adjusting module content, sequence, or integration levels (Harden's Ladder) based on stakeholder suggestions.
- **Enhanced Learning Environment:** Modifying learning activities to reduce student burnout and encourage deep, rather than surface, learning.



KING EDWARD MEDICAL UNIVERSITY, LAHORE

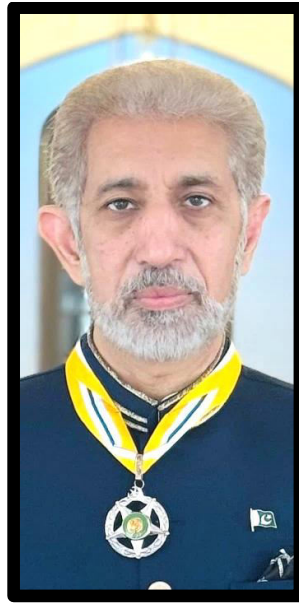
MBBS

MODULAR INTEGRATED CURRICULUM



A Competency-Based Framework for Excellence in Medical Education

* Department of Medical Education (DME)



Message from Vice Chancellor, KEMU

Warmest congratulations to the Department of Medical Education and the Departments of Basic Sciences at King Edward Medical University on developing the first-year MBBS curriculum document. In a document splendidly compiled by Dr Faiza Abrar, what truly stands out is not just the manuscript itself, but the dedication, teamwork, and care that went into creating it.

The collaborative spirit and intellectual artistry has transformed what could have been a routine academic task into an inspiring blueprint for excellence. Behind every page lies thoughtful discussion, shared expertise, and a genuine commitment to giving students the best possible start as they take their first steps in medical journey.

This effort reflects a deep understanding that a strong foundation shapes confident, compassionate doctors. The way all departments have come together blending educational vision with scientific depth speaks volumes about their collective passion for teaching & learning.

It's work like this, often done quietly and diligently, that makes a lasting difference. Their contribution will be felt in every classroom, every lesson, and eventually, in every patient those students go on to care for.



Message from Pro Vice Chancellor, KEMU

The transition from a traditional, discipline-based approach to an integrated modular curriculum represents a thoughtful and forward-looking reform. The introduction of this curriculum marks a significant transition from traditional teaching methods to a more integrated, student-centered approach. By fostering meaningful connections between basic and clinical sciences, and by promoting early clinical exposure, this framework aims to develop critical thinking, clinical reasoning, and professional competence from the very beginning of medical training.

At King Edward Medical University, we envision producing not only knowledgeable graduates but well-rounded physicians who embody the principles of the “seven-star doctor”—individuals who are skilled, ethical, compassionate, and capable of leadership in an increasingly complex healthcare environment. This curriculum has been thoughtfully designed to nurture these attributes through a structured, relevant, and forward-looking educational experience.

I commend the Department of Medical Education and the faculty of Basic Sciences for their dedication, collaboration, and academic leadership in developing this comprehensive curriculum. Their efforts reflect a shared vision to strengthen the foundation of medical education and to prepare our students for the challenges and opportunities of modern medicine.

I am confident that this curriculum will serve as a cornerstone for academic excellence at KEMU and will inspire our students to pursue lifelong learning, innovation, and service to humanity.



Message from Registrar, KEMU

Curriculum is the basis for whatever happens in a medical university. It is a living document and needs continuous maintenance and updates as any living tree requires.

Integration of basic and clinical sciences forms the foundation of current medical teaching and training. Evidence has proven that it is a better option to prepare doctors for their profession.

This modular curriculum is such an effort from the KEMU Department of Medical Education and the Faculty of Basic Sciences.

I congratulate all involved in the development of this document and its implementation. The main stakeholders of this curriculum, the students, will find it engaging and worthwhile.

Godspeed to all of you.



Message from Director DME, KEMU

The development of the first-year modular integrated curriculum at King Edward Medical University was driven by a comprehensive need assessment involving faculty consultations, student feedback, and alignment with national regulatory expectations. Rapid advancements in medical knowledge, evolving healthcare demands, and the shift toward competency-based education highlighted gaps in traditional teaching approaches. The need for early clinical exposure, horizontal and vertical integration, and student-centered learning became evident. This curriculum is designed to address these needs by fostering critical thinking, clinical relevance, and lifelong learning skills among our students.

The newly introduced modular integrated curriculum represents a significant step toward modernizing undergraduate medical education. It brings together basic and clinical sciences in a coherent and structured manner, ensuring meaningful learning experiences. Through integrated modules, interactive teaching strategies, and formative assessments, the curriculum promotes deeper understanding and application of knowledge. It is aligned with contemporary educational principles and aims to produce competent, ethical, and reflective practitioners prepared to meet the healthcare challenges of Pakistan.

I extend my sincere gratitude to the Vice Chancellor KEMU Prof Mahmood Ayyaz, Pro Vice Chancellor Prof Muhammad Moeen, Registrar Prof Syed Asghar Naqi all Deans of the university and the dedicated Dean basic sciences Prof Dr Tehreem Fatima faculty of basic sciences with special mention Prof Muhammad Shoaib and Prof Muhammad Shakeel for their unwavering support and contributions. Assistant registrar student section Mr Rashid and deputy registrar Mr Bilal need appreciation for coordination and IT department for digital support.

Special thanks to additional Director medical education and Associate Prof Biochemistry Dr Faiza Abrar, Dr Muhammad Qasim Muneer Associate Prof Anatomy, Dr Sahar, Assistant Prof Physiology and Dr Zeeshan acting Controller examination for their exceptional efforts and commitment in the development and implementation of this curriculum.

Message from Dean Basic Sciences



As a proud Kemcolian, I am honored to introduce the foundational phase of medical education at this historic institution during a transformative era.

To meet the evolving demands of modern healthcare, our educational philosophy has transitioned to a Modular Integrated Medical Curriculum which is strictly aligned with the latest PM&DC National Standards & WFME guidelines.

This framework is designed to bridge the gap between theoretical knowledge and clinical reality. By moving beyond isolated, rote-learned disciplines, we have implemented a system of horizontal and vertical integration that allows for the exploration of the human body through cohesive, thematic modules. The core pillars of Anatomy, Histology,

Physiology, and Biochemistry are seamlessly woven with Pathology and early clinical exposure, ensuring that our students understand the patient behind the science from their very first day.

A defining strength of our academic strategy is the "Good Medical Practices" program, delivered through the K-Core and K-Prism tracks. Supported by the multidisciplinary laboratories and early clinical rotations, these programs are developed to produce the "Seven-Star Doctor", a physician who is not only a clinician but also a leader, researcher, and lifelong learner.

By emphasizing professional attitudes and analytical skills from the outset, we ensure our graduates are fully prepared for the challenges in clinical clerkships and the complexities of the global healthcare landscape.

Our distinguished faculty and infrastructure are dedicated to this holistic growth. We take immense pride in witnessing our students' transition from the mastery of basic sciences to the complex, compassionate, and noble art of healing. Good Luck !



Message from Controller of Examinations

As Controller of Examinations, I am pleased to present the Modular Integrated Curriculum for the MBBS programme at King Edward Medical University. This curriculum represents a significant shift from traditional discipline-based teaching to a competency-based, outcome-driven educational framework aligned with national and international standards. It emphasizes horizontal and vertical integration, enabling students to correlate basic sciences with clinical practice from the very beginning of their training.

The structured modular approach promotes critical thinking, problem-solving, and self-directed learning, while ensuring continuity through spiral integration. The assessment system has been carefully designed to maintain transparency, reliability, and fairness, with a balanced focus on knowledge, skills, and professional attitudes. Continuous internal assessment, block examinations, and professional examinations collectively ensure comprehensive evaluation of student performance.

The integration of K-CORE and K-PRISM components further strengthens early clinical exposure, professionalism, and holistic development of future physicians. The Examination Department remains committed to upholding the highest standards of assessment, in alignment with PMDC and WFME guidelines.

I encourage students and faculty to actively engage with this curriculum and utilize it as a framework for achieving academic excellence and professional competence.

ACKNOWLEDGMENT

Prof. Mahmood Ayyaz, Vice Chancellor, King Edward Medical University, Lahore

Prof. Muhammad Moin, Pro-Vice Chancellor / Dean, Surgery & Allied Specialties, KEMU

Prof. Asghar Naqi, Registrar, KEMU

Prof. Tehreem Fatima, Dean, Basic Sciences, HOD Anatomy Department, KEMU

Prof. Abrar Ashraf Ali, Director DME / Dean, Allied Health Sciences, KEMU

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Dr Faiza Irem, Additional Director, DME, KEMU

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Prof. Muhammed Shoaib, Chairperson, Department of Physiology, KEMU

Prof. Muhammad Shakil, Chairperson, Department of Biochemistry, KEMU

Prof. Moneeb Ashraf, Chairperson, Department of Pharmacology, KEMU

Prof. Ali Madeeh Hashmi, Chairperson, Department of Psychiatry, KEMU

Dr. Fariha Tariq, Chairperson, Department of Forensic Medicine, KEMU

Prof. Syed Razi Haider Zaidi, Chairperson, Department of Community Medicine, KEMU

Dr. Muhammad Qasim Muneer, Associate Professor, Department of Anatomy, KEMU

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Dr. Seher Naeem, Assistant Professor, Department of Physiology, KEMU

Mr. Muhammad Rashid Javed, Assistant Registrar, KEMU

Dr. Hamza, Department of Biochemistry, KEMU

Mr. Malik Waseem Ahmed, Department of Medical Education, KEMU

Mr. Raza Ullah Sajid, Department of Biochemistry, KEMU

CONTENTS

Sr. No	Particulars	Page No.
1	Vision and Mission of KEMU	10
2	Core Objectives of Integration	10
3	Need Assessment	10
4	Expected Competencies in KEMU Graduate	11
5	Rationale for Adopting a Modular Integrated Curriculum	12
6	Policy Justification	13
7	1 st Year MBBS Curriculum	13
8	Program Objectives	14
9	Term of References (TORs)	14
10	Spiral Course K- PRISM	15
11	Clinical Rotations K- CORE	15
12	Domains of Learning	16
13	Teaching Strategies	16
14	Internal Assessment	17
15	Proposed SOPs – Block Management	19
15	Assessments	22
16	Professional Examination Policy	23
17	Declaration of Results	24
18	Programme Evaluation	25
19	Annexure 1	
20	Annexure 2	
21	Annexure 3	
22	Annexure 5	

Vision

The vision of King Edward Medical University is to be a renowned national and world-class academic institution, maintaining a leading role in medical education, innovative research, and the provision of international-standard healthcare services.

Mission

King Edward Medical University will prepare health professionals in accordance with the highest professional standards to practice evidence-based medicine, maintain international quality of patient-centered care in the healthcare delivery system, and produce research scholars demonstrating excellence in knowledge, skills, and ethical values, empowered with community-oriented, self-directed learning and professional development.

INTRODUCTION

A medical curriculum is dynamic and responsive to society's evolving needs, promoting the continuous growth of its students. As the definition of health and disease shifts from a pure tradition to a multifaceted understanding involving social, psychological, and cultural factors, the curriculum must be regularly assessed and updated.

King Edward Medical University (KEMU) is committed to this evolution by implementing a modular integrated undergraduate curriculum designed to produce “seven-star doctors” who are skillful, knowledgeable, community leaders, and ethical professionals.

Core Objectives of Integration

The move toward an integrated modular approach is driven by the goal of fostering "clinical thinking" from day one. By adopting a vertical integration strategy, we place basic science learning directly within the context of clinical practice and behavioral sciences. This approach offers several key advantages:

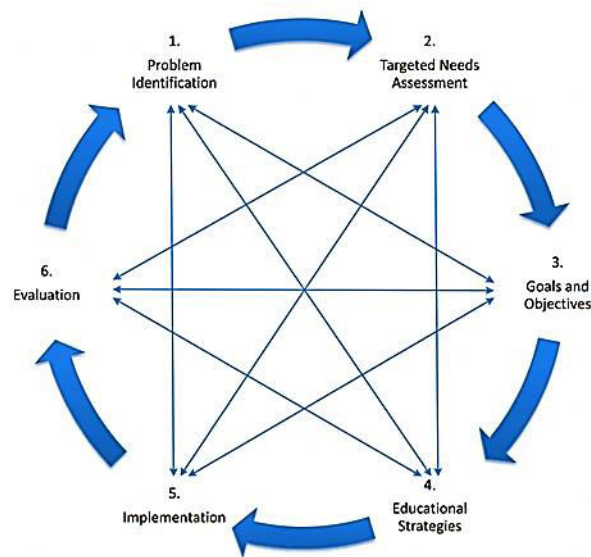
- **Clinical Relevance:** Students understand the practical application of theoretical knowledge early in their education.
- **Reduced Redundancy:** By streamlining content across different subjects, we eliminate unnecessary overlaps that can hamper conceptual development.
- **Enhanced Engagement:** A cohesive curriculum reduces learning reluctance by providing a clear, unified path toward professional competence.

Through this integrated framework, KEMU aims to provide a robust educational foundation that prepares graduates to navigate the complexities of modern healthcare with confidence and critical insight.

Need Assessment

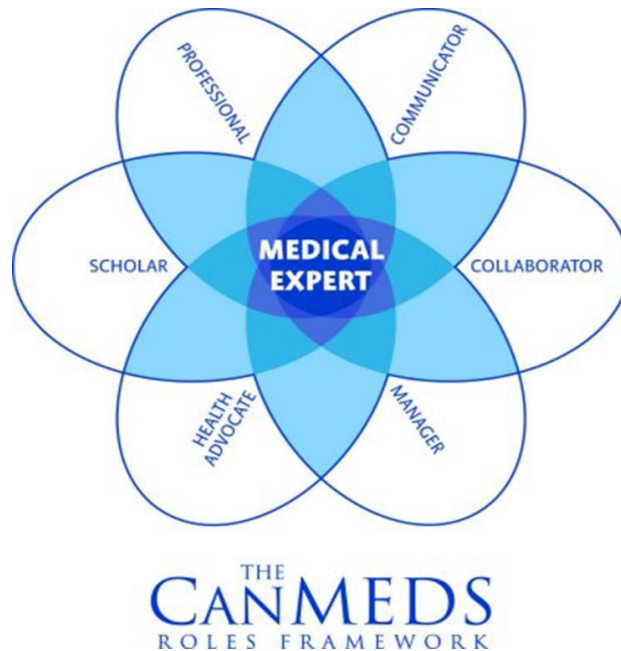
The traditional “apprenticeship” model at KEMU relies on passive observation and unstructured mentorship. This is no longer viable in a high-stake, technology-driven healthcare environment. Modern medical education requires a transition from traditional teaching to outcomes-based learning. There was an urgent need for educators to evolve from content experts into facilitators of learning, educational leaders, and innovators.

Our curriculum development journey is grounded in Kern's cycle of curriculum development.



- **Shift to Competency-Based Medical Education (CBME):** Educators must move beyond grading knowledge to assess observable behaviors and Entrustable Professional Activities (EPAs). This requires sophisticated skills in feedback, coaching, and programmatic assessment.
- **The Digital & AI Frontier:** The integration of Generative AI, personalized learning analytics, and digital literacy is no longer optional. Educators must bridge the gap between traditional pedagogy and technology-enhanced learning (TEL).
- **Safety Through Simulation:** With increasing pressure on patient safety, simulation-based training (SBT) has become the gold standard for procedural and interpersonal skills. There is a critical need for faculty trained in high-fidelity debriefing and scenario design.
- **Systemic Complexity & Governance:** Modern healthcare systems are intricate. Educators now require a firm grasp of educational leadership, policymaking, and quality assurance (QA) to meet international accreditation standards (e.g., WFME).
- **Evidence-Based Education:** There is an increasing demand for "the clinician as a scholar." Faculty must contribute to educational research to ensure teaching practices are grounded in evidence rather than tradition.

Expected Competencies in KEMU Graduates:



The expected generic competencies in a medical graduate are grouped under the umbrella of a seven-star doctor and are as follows:

1. Knowledgeable

KEMU medical graduates will demonstrate accurate understanding, integration, and application of biomedical, clinical, behavioral, and social sciences to explain health and disease, interpret clinical information, and support safe clinical decision-making.

2. Skillful

KEMU graduates will perform essential clinical, procedural, communication, and documentation skills competently, safely, and ethically, appropriate to their level of training.

3. Professionalism

Medical graduates will demonstrate ethical practice, accountability, integrity, respect, empathy, and adherence to professional standards in all interactions with patients, peers, and society.

4. Scholar & Researcher

The medical graduate will engage in lifelong learning, critically appraise medical literature, apply evidence-based medicine, and participate in basic research or quality improvement activities.

5. Critical thinker

KEMU graduates will analyze clinical problems logically, synthesize information from multiple sources, evaluate alternatives, and make justified clinical decisions, recognizing uncertainty and limitations.

6. Leader & Role model

The medical graduates will demonstrate teamwork, leadership, effective communication, and responsible decision-making, while displaying professional behavior and contributing to improvement in the healthcare system.

7. Community Health Promotor

KEMU medical graduates will identify community health needs, promote disease prevention and health education, address social determinants of health, and advocate for equitable and accessible healthcare.

Rationale for Adopting a Modular Integrated Curriculum

The Paradigm Shift from a traditional, discipline-based curriculum to a modular integrated curriculum at King Edward Medical University (KEMU) reflects the institution's commitment to aligning medical education with global standards, current best practices, and the health needs of the community it serves.

In the traditional model, subjects were taught in isolation with limited clinical relevance during the early years. Recognizing the need for a learner-centered, competency-driven, and clinically contextualized educational approach, KEMU has adopted a modular integrated framework that promotes horizontal and vertical integration across the basic, clinical, and behavioral sciences.

This transformation ensures that learning is structured around organ systems and clinical themes, allowing students to connect foundational concepts with clinical application from the very beginning. The modular design facilitates active learning, problem-solving, and critical thinking, moving away from rote memorization to understanding and synthesis.

The modular curriculum also supports spiral learning. The key concepts are revisited with increasing complexity across successive years, reinforcing retention and integration of knowledge. Early clinical exposure, skills training, and community engagement are embedded to prepare graduates who are competent, compassionate, and socially accountable physicians.

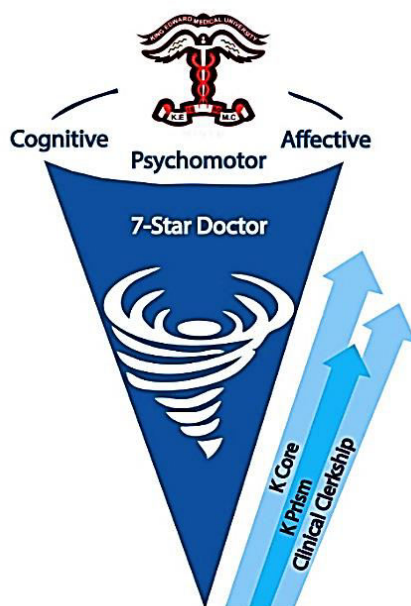
The modular approach enables continuous assessment and feedback, fostering reflective practice and self-directed learning for lifelong professional development.

This curriculum aligns with the Pakistan Medical & Dental Council (PMDC/PMC) MBBS Curriculum Framework (2023), HEC 2023 guidelines, and international benchmarks, such as the World Federation of Medical Education (WFME) standards. Thus, ensuring that King Edward Medical University graduates meet both national and global expectations for medical practitioners.

Policy Justification

The modular, integrated MBBS curriculum at King Edward Medical University (KEMU) adopts a pragmatic, learner-centered, and competency-based approach that is fully aligned with the Pakistan Medical and Dental Council (PMDC) and World Federation for Medical Education (WFME) standards. It integrates active, case-based learning with structured skills training to ensure feasible implementation and patient safety. Emphasis on professionalism, reflective practice, and problem-centered learning supports the formation of professional identity, lifelong learning, and social accountability.

1st Year MBBS Curriculum

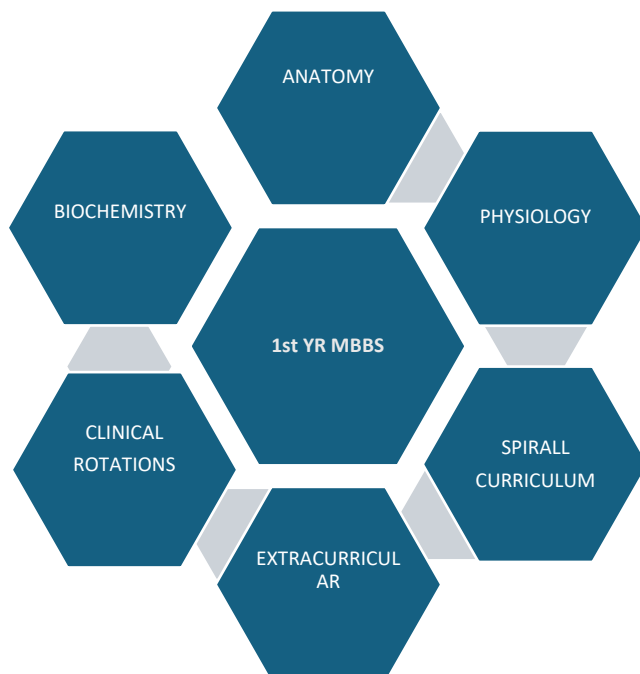


The 1st Year MBBS Curriculum (2025–26) at KEMU follows a modular, integrated, outcome-based approach designed to promote early horizontal integration of Anatomy, Physiology, and Biochemistry, incorporating vertical integration with clinical sciences and spiral themes ensuring progressive competence development.

The Modules will serve as an introduction to medical education, orienting students to human structure and function, the biochemical basis of life, sensitization towards community diseases, professional values, and learning strategies.

Teaching will be delivered through interactive lectures, small group discussions, case-based learning, self-directed learning, skill labs, and reflective practice.

Assessments will be aligned with learning outcomes and will employ multiple tools.



Programme Objectives

By the end of the 1st year students will be able to:

1. Explain the fundamentals of human structure, function, and diseases.
2. Exhibit integrated knowledge of Anatomy, Physiology, and Biochemistry to explain normal body functions and their deviations in disease.
3. Demonstrate professionalism, ethical conduct, and reflective practice in academic and clinical learning settings.
4. Employ effective learning strategies and demonstrate self-directed learning skills for continuous professional growth.
5. Apply foundational skills in research methodology, data interpretation, and evidence-based decision-making.
6. Recognize the relevance and implications of artificial intelligence, biomedical ethics, and Islamic perspectives in contemporary medical practice.
7. Collaborate effectively within teams, demonstrating empathy, respect, communication, and accountability.

Terms of References (TORs)

1. Total teaching, learning, and assessment hours are kept as per PMDC guidelines.
2. The time calculation for completion of the module/block is based on 34 hours per week of teaching.
3. The hours mentioned in each module/block are a mandatory minimum requirement.
4. The content & intended learning outcomes are mandatory to be taught at the required level.
5. The level of cognition will be kept at a higher level.
6. The same Table of Specifications (TOS) will be used for block and final prof assessment.
7. The Curriculum Implementation Committee will review the curriculum each year.
8. The Block Committee will conduct a block assessment.
9. The examination department will conduct the final professional examination.
10. The Department of Medical Education (DME) will provide overall oversight of the implementation of K-CORE and K-PRISM, ensuring alignment with institutional priorities and quality standards.

Spiral Course K- PRISM

These courses are designed to introduce students to essential themes in professional and personal development that will be revisited in increasing depth in subsequent years. The spiral will be monitored directly by the Department of Medical Education. However, the teaching sessions and mentoring process will be assigned to other disciplines. For example, Communication Skills can be taught by the Family Medicine faculty, and Research can be facilitated by the Community Medicine & Public Health faculty. Ethics is jointly covered by the Forensic department and Behavioral Sciences. The Faculty of Medical Education will monitor the entire process & also engage in the teaching sessions, when and wherever required.

Spiral component for 1st year includes:

1. Learning and teaching in Medical Education
2. Skills Lab
3. Communication Skills for Medical Students

4. Islamic Studies and Ethics
5. Professionalism.
6. Foundations of Behavioral Sciences
7. Research Methodology and Medical Innovation (capstone project)
8. Healthy Lifestyle and Wellbeing in Medicine (community medicine)
9. Introduction to Artificial Intelligence
10. Documentation
11. IT skills
12. Leadership, management and team building
13. Entrepreneurship
14. MSDS
15. Geriatrics

➤ ***“Details in Annexure 1”***

Clinical Rotations K- CORE

Introducing structured weekly clinical rotations for first-year MBBS students is a deliberate step toward fostering early professional identity formation and bridging the gap between basic sciences and clinical practice. A two-hour clerkship session each week provides students with meaningful, developmentally appropriate exposure to real clinical environments while aligning with the integrated/modular curriculum.

Early and regular clinical exposure enhances students’ motivation, contextualizes foundational knowledge, and helps them understand the relevance of basic sciences in patient care. Short, focused clinical encounters promote observation, guided participation, and reflective learning key components of adult learning theory. Weekly sessions also support the gradual development of essential professional behaviors, including communication, empathy, respect for patients, teamwork, and adherence to safety and infection-control practices.

K-CORE model engages students early in authentic clinical settings and will strengthen patient-centered attitudes, nurture clinical curiosity, and build confidence in navigating the hospital environment. This structured yet low-intensity exposure avoids cognitive overload while establishing the foundation for more advanced skills in subsequent years. Overall, weekly clinical clerkships ensure a smooth, scaffolded transition from the pre-clinical to the clinical phase, contributing to the development of competent, reflective, and patient-focused future physicians.

➤ ***“Details in Annexure 2”***

➤ ***“LO’s Anatomy, Physiology, and Biochemistry in Annexure 3”***

Domains of Learning

1. Cognitive Domain

Learning strategies are designed to promote understanding, integration, and clinical reasoning through a pragmatic mix of guided and self-directed approaches, including lectures, case-based learning, peer-assisted learning, small-group discussions, tutorials, videos, clinicopathological conferences (CPCs), symposiums, assignments, and structured self-directed learning.

2. Psychomotor (Skills) Domain

Skill acquisition is facilitated through progressive, supervised, and hands-on learning experiences such as laboratory work, cadaveric dissection, skills laboratories, workshops, bedside teaching, ward rounds, community-based activities, operating theatre exposure, and emergency department rotations, ensuring competence, safety, and readiness for clinical practice.

3. Affective (Attitudinal) Domain

Professional attitudes and values are nurtured through experiential and reflective learning activities, including role modeling, role-playing, videos, workshops, mentorship, and extracurricular engagements, which foster professionalism, ethical practice, teamwork, empathy, and social responsibility.

Teaching Strategies

1. Large Group Interactive Sessions (LGIS)
2. Small Group Discussions (SGD)
3. Case-Based Learning (CBL)
4. Self-Directed Learning (SDL)
5. Videos/ workshops
6. Assignments
7. Skill Labs
8. Laboratory work / cadaveric dissection
9. Bedside learning

Percentage weightage of each Module / Block

Block	Module	Duration	% Total Year	Assessment weightage
Block 1	Foundation	5 weeks	15.15%	10
	Musculoskeletal	6 weeks	18.18%	20
Block 2	Cardiovascular	6 weeks	18.18%	20
	Respiratory	5 weeks	15.15%	10
Block 3	Blood and Immunity	6 weeks	18.18%	20
	Core Concepts	5 weeks	15.15%	10
Spiral Curriculum				10%

Internal Assessment

As per PM &DC criteria and university policy, it will be uniform across all disciplines/years.

1. Purpose

This section outlines the policy governing the calculation, submission, and use of Internal Assessment (IA) scores for students enrolled in the Basic Sciences component of the MBBS program.

2. Responsibility for Calculation

- The Dean, Basic Sciences, and the coordinator shall be responsible for calculating the Internal Assessment based on the verified data submitted by the Block Management Committee.
- The finalized Internal Assessment record of each Block shall be formally shared with the Examination Department.

3. Frequency and Timeline

- Internal Assessment shall be calculated at the end of each Block assessment.
- Internal Assessment report must be submitted to the Examination Department no later than one month before the Final Professional Examination.

4. For Supplementary Examination

- The same Internal Assessment score shall be applicable for candidates appearing in the supplementary examination.
- No recalculation or modification will be undertaken for supplementary attempts.

5. Method of Calculation

- Internal Assessment shall be computed in accordance with the approved formula, by PM&DC as notified by the Office of the Dean, Basic Sciences.

THEORY – 20 %		
1	Attendance in lectures > 95 % = 05 %, 90- 94% = 04%	5 %
2	Block Exam (Written Component)	9 % (3% / BLOCK)
3	Continuous Assessment (MODULE TEST)	6 % (3% / MODULE)
PRACTICAL – 20 %		
1	Attendance in practical > 95 % = 6%, 90- 94% = 4%	6 %
2	Practical books	5 %
3	BLOCK Exam (OSPE / OSVE Component)	6 %
4	Logbook	3 %

SOPs – Block Management

Section 1 – Conduction of Blocks

1.1 – Block Assessments shall be conducted by the following departments of KEMU:

BLOCK 1 - Department of Anatomy,

BLOCK 2 - Department of Physiology,

BLOCK 3 - Department of Biochemistry.

1.2 – The subsequent sections outline the roles and responsibilities of the respective Block Management Committees.

Section 2 – Block Personnel / Committee

2.1 – The Block Management Committee will be headed by a “**Block Coordinator**,” who shall be an Associate Professor from the department responsible for conducting the respective block (e.g., Associate Professor of Anatomy for Block 1).

2.2 – The Committee shall include **one Assistant Professor** each from the remaining **two** Basic Sciences departments, nominated by their respective Chairpersons.

2.3 – **One Assistant Professor from each clinical discipline** shall serve as a “**Focal Person**” to coordinate clinical teaching and assessment with the Basic Sciences departments. These shall be nominated by their respective Chairpersons. The focal person shall be responsible for ensuring effective interdepartmental communication and for providing all necessary data to facilitate the smooth conduct of the Block Examination.

2.4 – One representative (“**Focal Person**”) from the **Department of Medical Education** shall be nominated by the Chairperson to coordinate K-PRISM and K-CORE activities. The focal person shall be responsible for ensuring effective interdepartmental communication and for providing all necessary data to facilitate the smooth conduct of the Block Examination.

2.4 – One “**Attendance Clerk**” from each department shall be nominated by the respective Chairpersons.

2.5 – One “*Ancillary Clerk*” shall be appointed by the Chairperson of the department responsible for conducting the Block Examination.

Section 3 – Responsibilities of Block Management Committee

A. ASSESSMENT OF ELIGIBILITY

3.1 – The Block Management Committee, in consultation with respective Chairpersons, shall determine student eligibility for the Block Examination based on academic performance (module tests, portfolio, logbooks, etc.) and attendance percentage.

3.2 – Each Basic Sciences department shall submit student test records/obtained scores to the Block Coordinator at least **10 days prior** to the commencement of the Block Examination.

3.3 – Each department shall provide a subject-wise “**debar list**” to the Block Coordinator at least 10 days prior to the examination.

3.4 – Attendance records (complete percentage data) shall be submitted by each department to the Block Coordinator within the same timeline.

3.5 – Each department shall submit Internal Assessment marks for the block, duly approved by their Chairpersons.

B. CONDUCTION OF BLOCK EXAM – THEORY

3.6 – The Block Examination shall be conducted by the department responsible for the respective block.

3.7 – Question paper development (MCQs and SEQs) shall be undertaken by subject specialists and submitted to the Block Coordinator at least 15 days prior to the examination. Submissions shall be made as sealed hard copies & password-protected soft copies. All questions shall be developed in accordance with the approved Table of Specifications (TOS).

3.8 – The Internal Assessment of the block shall be compiled by the members of the Block Management Committee. Pre-calculated Internal Assessment scores from each department shall be submitted by the respective committee members for compilation. It will be submitted to the Examination branch through Dean Basic Sciences Office at least one month prior to the professional examination.

3.9 – The Assistant registrar will provide the stationary (paper rims & answer sheets) to the Block coordinator. Printing and photocopying of examination papers shall be managed by the Block Management Committee through the Ancillary Clerk. The University shall provide necessary printing facilities.

3.10 – Confidentiality, secure storage, and transportation of examination papers shall be ensured by the department running the block.

3.11 – The examination venue shall be arranged by the Block Management Committee through proper channel, in accordance with university protocols, and finalized upon approval of relevant Chairpersons.

3.12 – All logistical arrangements at the venue, including seating, facilities, and cleanliness, shall be jointly managed by Basic Sciences departments through designated ancillary staff.

3.13 – Security personnel shall be provided by the University. The Block Management Committee shall assign duties, including collection of mobile devices and prohibited materials. A minimum of **two security personnel** shall be present. Any issues shall be reported to the Block Coordinator.

3.14 – Upon completion of the examination, all materials shall be collected and returned to the department running the block, under the supervision of the Block Coordinator.

3.15 – **SEQ Paper marking** shall be centralized and conducted in the department running the block, who shall provide appropriate facilities for the faculty from all departments.

3.16 – **MCQ marking** shall be carried out by ancillary staff under the supervision of the Ancillary Clerk.

3.17 – **Result compilation** – including module assessment and attendance - shall be conducted by the Block Coordinator and submitted (in both hard and soft copies) to the Examination Department, Registrar Office, Department of Medical Education, Dean Basic Sciences, and relevant Chairpersons.

- 3.18** – Answer sheets for the Block Examination will be provided by the University Administration
- 3.19** – MCQ bubble sheets will be provided by the Examination Department and their subsequent checking will be conducting in the Examination Department as well.

C. CONDUCTION OF BLOCK EXAM – OSPE / OSVE

- 3.18** – Each department shall submit a detailed OSPE/OSVE plan, duly approved by the respective Chairperson, **at least 15 days prior** to the examination.
- 3.19** – Departments shall be responsible for setup, logistics, equipment safety, and dismantling of their respective OSPE stations. The Block Management Committee shall facilitate coordination only. The stations will be set up by the respective departments' faculty.
- 3.20** – OSPE scores for each subject shall be compiled and submitted to the Block Coordinator **within 7 days** of the examination.
- 3.21** – List of nominated “**Invigilation Staff**” and “**Examiner Panel**” for OSVE will be provided by each Basic Sciences Department to the Block Coordinator at least 10 days prior to the examination. A minimum of **8 invigilators** (ancillary staff included) shall be contributed by each department as human resource for the block exam.
- 3.22** – OSVE scores shall be compiled and submitted **within 7 days** of the examination.
- 3.23** – Consolidated OSPE/OSVE results shall be prepared by the Block Management Committee and submitted (hard and soft copies) to all relevant authorities by the Block Coordinator.

D. SMOOTH CONDUCTION OF CURRICULUM-BASED ACTIVITIES

- 3.24** – The Block Management Committee shall address and resolve issues affecting the smooth execution of the curriculum.
- 3.25** – The Committee shall ensure effective implementation of clinically integrated lectures, K-CORE rotations, logbook maintenance, K-PRISM sessions, and other co-curricular activities. Any discrepancies shall be reported to the Block Coordinator for onward communication through proper channels.
- 3.26** – Student attendance matters shall be managed in accordance with University policies. Any attendance related issues shall be processed through proper institutional channels.
- 3.27** – Cases of student “misconduct” or “unfair means” shall be referred to the appropriate University authorities for disciplinary action.
- 3.28** – Attendance records for K-PRISM and K-CORE shall be maintained & provided by the Department of Medical Education to the Block Coordinator for integration into overall block attendance.

“Time table: Annexure 5”

ASSESSMENTS

Module Assessment Policy

- The Departments shall conduct Module assessments
- The Departments may utilize any appropriate assessment tool, as per academic guidelines.
- Total marks for module assessments shall remain standardized across all modules.
- No remedial assessment will be offered for a failed module assessment.

Block Assessment Policy

1. Block assessments shall be conducted at the end of each block by the respective Block Management Committees.
2. To appear in the Block Assessment, a student must have 75% attendance in each subject.

Structure of Block Assessment

Written Component

- Total marks for the Block Assessment: 200
- Written component: 110 marks
- The written paper shall consist of four integrated sections:
 1. Anatomy
 2. Physiology
 3. Biochemistry
 4. Spiral Component
- Block Management Committee will provide TOS for assessment.

Distribution of Written Marks (110 marks):

1. 65 MCQs $\times$ 1 mark each = 65 marks
18 MCQ each from Anatomy, Biochemistry, and Physiology
11 MCQ from K-CORE and K-PRISM
2. 09 SEQs $\times$ 5 marks each = 45 marks
03 SEQ each from Anatomy, Biochemistry, and Physiology

Viva/Practical Component: 90 marks

1. 12 OSPE stations $\times$ 5 marks each = 60 marks
03 OSPE stations each from Anatomy, Biochemistry, and Physiology
03 OSPE stations from K-CORE and K-PRISM
2. 03 OSVE stations $\times$ 10 marks each = 30 marks

One station each from Anatomy, Biochemistry, and Physiology

Declaration of Results

Passing Criteria

- Each subject component of the written examination (Anatomy, Physiology, Biochemistry, Spiral) must be individually passed with a minimum score of 50%.
- Each subject component of OSPE must be passed individually with a minimum score of 50%.
- Written and OSPE components are independent, and both must be passed separately.

Remedial Policy

One single remedial will be taken before the Prof exam for each block assessment, which will be allowed only for students:

- a. Having attendance of not less than 50%
- b. Failed any block exam
- c. Absent due to reasons such as sickness, accident, or close degree relative death, having valid proof/evidence for it.

Professional Examination Policy

The Professional Examination shall serve as the summative assessment for the Basic Sciences curriculum and will be conducted at the end of each academic year. All procedures should be administered under the supervision of the Examination Department.

1. A professional examination will be conducted at the end of each year.
2. The **Examination Department** will conduct the professional examination.
3. The Block Management Committee will provide the following documents to the Examination Department.
 - a. List of eligible students must be provided at least 4 weeks before commencement of the examination.
 - b. List of Panel of examiners should be provided at the beginning of the year
 - c. Table of Specification should be provided at the beginning of the academic year
4. **Eligibility Criteria:**
 - a. Attendance required to appear in the Professional examination should be 75%, with 60% attendance in each subject. (Anatomy, Physiology, Biochemistry, Spiral Subjects)
 - b. Should have passed all three block assessments. (Results to be attached with the application submitted to the examination department)
 - c. Name should be included in the list of eligible students submitted by the block management committee.
 - d. Evidence of fee submission.

5. Written part of Professional Examination:

There will be a total of 04 papers in the professional examination as follows.

- **Paper 1** will cover the course content of Block 1
- **Paper 2** will cover the course content of Block 2
- **Paper 3** will cover the course content of Block 3
- **Islamic studies /Pakistan Studies**

6. Total marks of the Professional examination will be 1000. Division of these marks will be as follows.

Paper	Syllabus	Written Marks	Internal Assessment Theory	OSVE Marks	Internal Assessment Practical
PAPER 1	BLOCK 1	120	30	120	30
PAPER 2	BLOCK 2	120	30	120	30
PAPER 3	BLOCK 3	120	30	120	30
Islamic Studies		100			

Written components:

75 MCQs / 1 mark = 75 marks (1.5 hrs)

- 20 MCQ each from Anatomy, Biochemistry, and Physiology
- 15 MCQ from K-CORE and K-PRISM

09 SEQs / 5 marks = 45 marks (1.5 hrs)

- 03 SEQ each from Anatomy, Biochemistry and Physiology

Viva component:

- There will be three OSVEs of 120 marks.
- These 120 marks will be equally distributed among three papers, i.e., Anatomy, Physiology & Biochemistry.

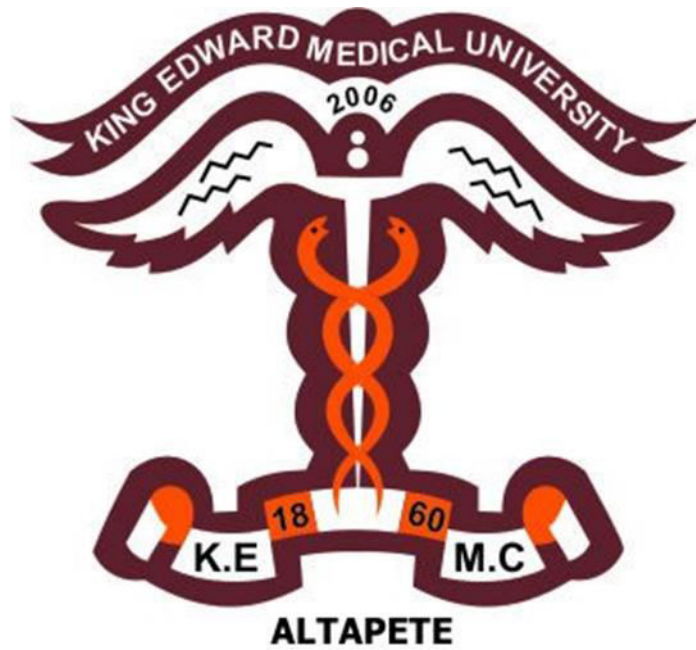
7. Table of Specification (TOS) for professional examination:

Paper	Subject	Division of Marks	Theory paper Marks	No. of MCQs	No. of SEQs	Viva Marks (OSVE)
Paper 1/2/3	Anatomy	29 %	35	20	03	40+40+40
	Physiology	29 %	35	20	03	40+40+40
	Biochemistry	29 %	35	20	03	40+40+40
	Spiral Subjects	13 %	15	15	00	00
	Total	100 %	120	75	09	

Declaration of Results

- In each paper, each component of the written assessment (anatomy, physiology, biochemistry, and spiral subjects) needs to be individually passed to declare the written component as passed. Marks obtained 50% will be declared as a pass.
- Each component of OSVE (Anatomy, Physiology, Biochemistry) needs to be passed to declare OSVE as passed. Marks obtained 50% will be declared as a pass.
- Both written and OSVE need to be separately passed.
- If a student fails in any component of the written assessment (Anatomy, Physiology, Biochemistry, spiral subjects) or OSVE (Anatomy, Physiology, Biochemistry), the student will appear in a supplementary examination in both the written & OSPE components.
- Marks required for Islamic Studies/Ethics and Pak Studies will be 33. These marks will not contribute to the total marks of the professional examination and the determination of position.

Programme Evaluation



SECOND YEAR MBBS CURRICULUM

2025-26

VISION STATEMENT

The vision of King Edward Medical University is to be a renowned national and world-class academic institution, maintaining a leading role in medical education, innovative research, and the provision of international-standard healthcare services.

MISSION STATEMENT

King Edward Medical University will prepare health professionals in accordance with the highest professional standards to practice evidence-based medicine, maintain international quality of patient-centered care in the healthcare delivery system, and produce research scholars demonstrating excellence in knowledge, skills, and ethical values, empowered with community-oriented, self-directed learning and professional development.

INTRODUCTION

Core Philosophy: The Traditional Model

The curriculum is delivered through a traditional, subject-based model, where Anatomy, Physiology, and Biochemistry are taught as distinct, independent disciplines. This pedagogical approach focuses on departmental specialization, allowing students to master the granular details of each subject within its own academic silo. By gaining a deep, concentrated understanding of each subject, students build the foundational "building blocks" of knowledge required for future clinical integration.

Academic Pillars of the Curriculum

- **Anatomy:** The focus shifts toward regional anatomy, specifically the Head and Neck, Neuroanatomy, and Genitourinary systems. Students engage in detailed cadaveric dissection, emphasizing the spatial relationships of structures that are essential for surgical and diagnostic accuracy.
- **Physiology:** This subject explores the complex regulatory mechanisms of the human body. The curriculum covers advanced systems including the Central Nervous System, Special Senses, and the Endocrine and Reproductive systems, detailing how these components maintain homeostasis.
- **Biochemistry:** The Second Year focuses heavily on Metabolic Integration. Students study the intricate biochemical pathways of carbohydrates, lipids, and proteins, alongside molecular biology and genetics, to understand the chemical basis of life and the molecular origins of disease.

Learning Methodologies

Education is facilitated through a structured combination of:

1. **Didactic Lectures:** Providing comprehensive theoretical frameworks for each subject.
2. **Practical Laboratory Sessions:** Developing essential technical skills, such as performing physiological examinations and biochemical assays.
3. **Dissection Hall Sessions:** Offering hands-on anatomical exploration to bridge the gap between textbook descriptions and biological reality.
4. **Tutorials:** Encouraging academic dialogue and refining the student's ability to communicate complex scientific concepts.

Goal of the Year

The ultimate objective of the Second-Year curriculum is to ensure that every student achieves a mastery of the Normal Human State. By the end of this year, students are expected to possess rigorous scientific discipline and the vast knowledge base necessary to transition into clinical years, where they will begin to study how these normal processes are altered by pathology and managed through therapeutics.

Schedule and Timelines for 2nd Year MBBS

The second year MBBS curriculum is structured over a 9-month academic session to ensure comprehensive coverage of the syllabus. To maintain the rigor of the traditional silo-based model, the teaching-learning activities are distributed across theoretical, practical, and small-group formats starting from January 28, 2026.

1. Theory Lectures

Theoretical foundations are established through a consistent weekly schedule designed to cover the breadth of metabolic and molecular biochemistry.

- Total Duration: 9 Months.
- Frequency: Four-Five lectures/subjects per week.

- Venue: Biochemistry Lecture Hall, 2 Maqbool Ahmed Block, Physiology Lecture Theatre, Anatomy Lecture Theatre.

2. Practical Sessions

Hands-on laboratory training is conducted to bridge theoretical knowledge with technical proficiency in biochemical analysis.

- Commencement: January 28, 2026.
- Weekly Schedule: Conducted four days a week/ subject.
- Venue: Biochemistry Laboratory, Histology Laboratory, and Physiology Laboratory

3. Tutorials

To reinforce complex concepts and promote interactive learning, students participate in small-group sessions.

- Commencement: January 28, 2026.
- Format: Includes traditional tutorials and Problem-Based Learning (PBL) sessions.
- Weekly Schedule: Held four days a week for Biochemistry and Anatomy and once a week for Physiology
- Venue: Demonstration Rooms and tutorial rooms.

CODE OF CONDUCT FOR STUDENTS

1. TIMINGS

The students are encouraged to follow the timings of lectures, practical & tutorial classes.

2. ATTENDANCE & SEND UP EXAMINATION

A minimum criterion for attendance for appearing in university examination is set to be 75%. The students are informed about their attendance record and deficiency twice a year. Classes are also arranged in summer vacations to meet the deficiency.

3. PRACTICAL NOTE BOOKS AND LAB COATS

- It is mandatory for students to wear a lab coat during practical classes.
- Practical copies are maintained and checked after every practical.
- Practical copy carries 5 marks in Professional examination.

ASSESSMENT METHODS

1. Internal Assessment
2. Formative Assessment
3. Summative Assessment

CLASS TESTS (DURING ACADEMIC SESSION)

- Class Tests are conducted comprising of Long Essay questions, MCQs and SEQs each month.
- Viva Voce are also conducted at regular intervals
- Sendup at the end of the year includes the entire syllabus.
- Results are displayed promptly

ASSESSMENTS RULES & REGULATIONS

- Tests are conducted sharp at the given time.
- Students are not allowed to enter the examination hall after 15 minutes of the scheduled examination time.
- Students must sit according to the specified seating arrangement
- Cell phones are strictly prohibited in the examination hall.
- Pass score in each assessment is 50%



Office of The Professor of Anatomy Department, KEMU.
Time Table of 2nd Year MBBS (2026-2027) Classes

Day	08:00 - 09:00	09:00 - 10:00	10:00 - 10:30	10:30 - 11:30	11:30-12:30	12:30 - 02:30
Monday	Anatomy Demonstration	Anatomy Dissection	B R E A K	Anatomy Lecture (Histology)	Biochemistry Lecture (Lecture Theatre 02)	Practical Histology C Physiology A Biochemistry B Biochemistry Tutorial D
Tuesday	Anatomy Demonstration	Anatomy Dissection		Anatomy Lecture (Histology)	Physiology Lecture	Practical Histology A Physiology B Biochemistry D Biochemistry Tutorial C
Wednesday	Anatomy Lab			Biochemistry Lecture (Lecture Theatre 02)	Physiology Lecture	Tutorial Physiology
Thursday	Anatomy Demonstration	Anatomy Dissection		Physiology Lecture	Biochemistry Lecture (Lecture Theatre 02)	Practical Histology D Physiology C Biochemistry A Biochemistry Tutorial B
Friday	Integrated Lecture / Pakistan Studies	Anatomy Lecture (Embryology)	(10:00-11:00) Biochemistry Lecture		11:00-12:00 Physiology Lecture	
Saturday	Anatomy Demonstration	Anatomy Dissection	Break	Anatomy Lecture (Embryology)	Physiology Lecture	Practical Histology B Physiology D Biochemistry C Biochemistry Tutorial A

Lectures of Anatomy and Physiology will be delivered in Anatomy & Physiology Lecture Theatres, and Lectures of Biochemistry will be delivered in the Lecture Theatre 02 of Maqbool Ahmed Block.

Tehreem Fatima
21.01.26

Prof. Dr. Tehreem Fatima
Dean Basic Sciences
Head of Anatomy Department
King Edward Medical University, Lahore.

Shakil

Prof. Dr. Muhammad Shakil
Head of Biochemistry Department,
King Edward Medical University, Lahore.

Maryam Rao

Dr. Maryam Rao
Head of Physiology Department,
King Edward Medical University, Lahore.

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DEPARTMENT OF PHYSIOLOGY

At the end of the course the student should be able to:

BODY FLUIDS AND KIDNEY

1. Describe the components and quantitative measurements of body fluids.
2. Discuss the different fluid compartments, tissue and lymph fluid.
3. Describe the structure of the kidney and nephron and explain general functions of the kidney.
4. Describe the GFR and its regulation.
5. Describe the formation of urine including filtration, re-absorption and secretion.
6. Discuss plasma clearance.
7. Describe the mechanism of concentration and dilution of urine
8. Describe regulation of osmolality, water balance and acid base balance
9. Describe the role of the kidney in blood pressure regulation.
10. Describe the hormonal functions of the kidney.
11. Describe acidification of urine and its importance.
12. Describe the mechanism of micturition and its control.

Applied Physiology:

Understands:

1. Renal plasma clearance tests and their clinical significance.
2. Dehydration, rehydration, *overhydration* and oedema.
3. Renal failure and dialysis.
4. Metabolic acidosis and alkalosis.
5. Abnormalities of micturition.

NERVOUS SYSTEM

1. Describe general organization of the nervous system.
2. Describe the properties of synaptic transmission.
3. Classify the neurotransmitters and explain their functions.
4. Explain neuropeptides and their functions
5. List the types and describe the properties and functions of sensory receptors.
6. Describe the pathways for transmission of somatic sensations
7. Define reflex action. Classify and describe reflexes
8. Describe the muscle spindle and Golgi tendon organ. Explain their functions.
9. Describe the physiology of the pain and analgesia system.
10. Explain the functions of the cerebral cortex.
11. Differentiate between the sensory and motor cortex and their functions.
12. Describe the motor pathways, including pyramidal and extrapyramidal.
13. Describe basal nuclei (basal ganglia) and their functions.
14. Describe cerebellum and its function.
15. Describe the functions of vestibular apparatus.
16. Explain the organization and functions of reticular formation.
17. Explain mechanism and regulation of the muscle tone.
18. Describe the control of posture and equilibrium.
19. Explain the physiology of sleep.
20. Describe the physiology of memory.
21. Describe the mechanism and control of speech.
22. Discuss the functions of thalamus
23. Discuss the functions of hypothalamus
24. Explain the components and functions of limbic system.
25. Describe the production, circulation, absorption and functions of CSF.
26. Describe the blood brain and blood CSF barriers and their clinical significance.
27. Describe the organization and functions of the autonomic nervous system.

Applied Physiology

Understands:

1. Significance of dermatomes.
2. Injuries of the spinal cord.

3. Hemiplegia and paraplegia.
4. Diseases related to Basal ganglia.
5. Effects of cerebellar dysfunction.
6. Hydrocephalus.
7. Alzheimer's disease.
8. Speech disorders
9. *Sleep* disorders.
10. **Clinical** abnormalities of pain.

ENDOCRINOLOGY

1. Classify the hormones and describe mechanism of their action
2. Name the hormones secreted by the anterior and posterior pituitary and describe their regulation and functions.
3. Describe the neuroendocrine functions of the hypothalamus
4. Describe the physiological changes of growth and aging.
5. Describe the functions and regulation of the hormones secreted by thyroid gland.
6. Describe the hormones regulating calcium homeostasis (parathormone, vitamin D and calcitonin)
7. Name the hormones secreted by the adrenal cortex and describe their functions and regulation.
8. Name the hormones secreted by the adrenal medulla and describe their functions and regulation.
9. Describe the endocrine functions of the pancreas and regulation of pancreatic hormones.
10. Describe the endocrine functions of the pineal gland.

Applied Physiology

Understands:

1. Acromegaly, gigantism and dwarfism.
2. Effects of pan-hypopituitarism.
3. Diabetes insipidus.
4. Thyrotoxicosis, myxedema and cretinism
5. Pheochromocytoma.
6. Cushing's disease/syndrome.
7. Addison's disease.
8. Hypocalcemia and hypercalcemia.
9. Adrenogenital syndrome.
10. Conn's syndrome. 1
11. Diabetes mellitus and hypoglycemia.

GASTROINTESTINAL TRACT

1. Describe the general functions of gastrointestinal tract.
2. Describe the enteric nervous system, control of gastrointestinal motility and secretion
3. Describe mastication, swallowing and their control
4. Describe the motility of the stomach, small intestine, large intestine and regulation.
5. Describe the functions of GIT hormones

6. Describe gallbladder motility and its regulation
7. Explain mechanism of vomiting and its control pathway
8. Explain defecation and its control pathway

Applied Physiology

Understands:

1. Dysphagia
2. Achalasia cardia
3. Diarrhea and constipation
4. Megacolon

REPRODUCTION

1. Describe the functions of the male reproductive system.
2. Describe the mechanism of erection and ejaculation.
3. Describe the production and function of testosterone.
4. Describe the physiological changes during male puberty.
5. Describe the function of the female reproductive system.
6. Explain the production and function of estrogen and progesterone.
7. Describe the functions of hypothalamic-hypophysis I-gonadal axis.
8. Describe the ovarian and endometrial cycle.
9. Describe the physiological changes during female puberty and menopause.
10. Discuss pregnancy and explain the physiological changes taking place in the mother.
11. Describe the functions of placenta.
12. Discuss the hormones regulating parturition, lactation and development of breast.

Applied Physiology

Understands:

1. Male infertility.
2. Female infertility.
3. Postmenopausal syndrome.
4. Contraception.
5. Basis for pregnancy tests.
6. Hypogonadism.
7. Cryptorchidism.

SPECIAL SENSES

1. Describe the optics of the eye, mechanism of accommodation, **light** reflex.
2. Explain visual acuity, depth perception, neural functions of the retina.
3. Describe the errors of refraction and their corrections.
4. Describe the secretion, circulation, drainage and functions of aqueous humor.
5. Describe the movements of eyeballs.

6. Describe the visual transduction, color vision, visual cortex and visual pathway.
7. Describe the mechanisms for the light and dark adaptation.
8. Describe the functions of external ear.
9. Enumerate the contents of middle ear cavity and functions of the middle ear
10. Describe the structure and functions of internal ear.
11. Explain the determination of the sound frequency, loudness, direction of sound, auditory pathway and auditory cortex.
12. Describe the signal transduction for hearing.
13. Describe the signal transduction for taste and smell.
14. Describe the pathways for the sense of taste and smell,

Applied Physiology

Understands:

1. Types of deafness.
2. Errors of refraction.
3. Lesions of the visual pathway.
4. Night blindness.
5. Color blindness.
6. Squint.
7. Argyll Robertson pupil.
8. Horner's syndrome.
9. Abnormalities of sense of smell and taste.
10. Glaucoma.

PHYSIOLOGY PRACTICAL SECOND YEAR MBBS

NERVOUS SYSTEM

1. Examination of superficial reflexes.
2. Examination of deep reflexes.
3. Examination of motor system.
4. Cerebellar function tests.
5. Examination of sensory system.
6. Examination of cranial nerves.

SPECIAL SENSES

1. Plotting of the field of vision (perimetry and confrontational methods).
2. Testing the visual acuity for near and distant vision.
3. Elicitation of light reflex (direct and consensual) and accommodation reflex.
4. Ophthalmoscopy,
5. Examination of color vision.
6. Examination of hearing.
7. Examination of taste and smell.

PREGNANCY TEST

DEPARTMENT OF BIOCHEMISTRY

Learning Objectives/ Outcomes:

By the end of the course, the 2nd year students should be able to:

1. Bioenergetics and Biologic Oxidation

By the end of this topic, students should be able to:

1. Discuss the concept of redox reactions and redox couples.
2. Describe enzymes and coenzymes of biological oxidation and reduction.
3. Describe the process of the respiratory chain and its components.
4. Describe the role of electron flow in oxidative Phosphorylation, ATP Synthase in synthesis of ATP along with their inhibitors & uncouplers.

2. Metabolism of Carbohydrates

By the end of this topic, students should be able to:

1. Illustrate the processes & energetics of glycolysis, gluconeogenesis along with their reversible, irreversible steps catalyzed by specific enzymes and regulation of blood glucose level.
2. Explain the Reactions of Citric acid cycle, Cori's cycle, glycogenesis and glycogenolysis, the hexose monophosphate (HMP) shunt, Uronic acid pathway.
3. Discuss digestion, absorption of carbohydrates and metabolism of Monosaccharides, Disaccharides.
4. Discuss disorders related to monosaccharide and disaccharide metabolism along with their diagnosis based on biochemical tests & their complications.
5. Classify glycogen storage diseases based on enzyme deficiency, their related metabolic pathways, clinical manifestations, complications.

3. Metabolism of Lipids

By the end of this topic, students should be able to:

1. Describe Mobilization, transport, synthesis, oxidation & regulation of fatty acids, TAGs, sterols, phospholipids & glycolipids.
2. Enumerate ketone bodies, eicosanoids, plasma lipoproteins, their various types, synthesis, degradation and utilization.
3. Describe metabolism of Phospholipids and Sphingolipids
4. Illustrate steps of cholesterol synthesis, its fate, functions, regulation and associated disorders.
5. Describe Biosynthesis and Fate of Bile acids and their significance in health and disease.
6. Describe disorders related to fatty acid oxidation, triglyceride & ketone bodies synthesis, cholesterol & lipoprotein metabolism.
7. Describe fatty liver

4. Metabolism of Proteins and Amino acids

By the end of this topic, students should be able to:

1. Explain steps of amino acid oxidation and their metabolic fate, including various processes of nitrogen transfer, nitrogen excretion and ammonia intoxication

2. Describe the process of urea formation, the urea cycle and its regulation along with genetic defects of the urea cycle.
3. Discuss disorders related to urea synthesis, ammonia disposal, and amino acid metabolism.
4. Describe the functions, pathways of each amino acid synthesis and degradation, and genetic disorders of individual amino acids
5. Discuss intermediates formed from the carbon skeleton of amino acids.
6. Describe metabolism of nitrogen-containing compounds.

5. Integration and Regulation of Metabolic Pathways

By the end of this topic, students should be able to:

- a. Define Fed-fast cycle and Starvation.
- b. Describe Metabolism, Anabolic and Catabolic pathways.
- c. Draw the concept map showing the integration of metabolic pathways in different tissues

6. Metabolism of Nucleotides.

By the end of this topic, students should be able to:

1. Describe De novo synthesis of purines, pyrimidines, their recycling, degradation and related disorders
2. Discuss derivatives of Purines and Pyrimidines and their role in Health and Disease

7. Basis of Genetics & Molecular Biology

By the end of this topic, students should be able to:

1. Describe genes & chromosomes
2. Explain DNA and RNA metabolism
3. Describe the process of protein synthesis
4. Discuss regulation of gene expression
5. Discuss Molecular Biology Techniques

Sr. No	2 nd YEAR (MBBS)		
	Topics	No. of Lectures	No. of Tutorials
1.	Biological Oxidation	7	2
2.	Carbohydrates Metabolism	18	5
3.	Lipids Metabolism	18	4
4.	Protein & Amino Acids Metabolism	15	4
5.	Nucleotides Metabolism	7	3
6.	Integration of Metabolic Pathways	5	1
7.	Biochemical Genetics/ Molecular Biology	26	6
8.	Endocrinology	8	2
9.	Water & Electrolyte balance, Acid-Base Regulation	6	2
10.	Cancer and Xenobiotic	5	1
11.	Biochemistry of Digestive Tract	3	2

PRACTICALS SECOND YEAR MBBS:

- The introduction of techniques and instrumentation of clinical biochemistry like centrifugation, spectrophotometry (visible, UV, infra-red and atomic absorption). pH metry, chromatography, electrophoresis, enzyme-linked immunosorbent assay (ELISA), micro pipetting, flame photometry and ion selective electrode (ISE) technique.
- Collection, preservation, and storage of blood sample.
- Estimation of various substances in blood and other biological fluids , like glucose , Creatinine, urea, protein, albumin, uric acid, and calcium, total cholesterol; HDL Cholesterol, and triacylglycerol; demonstration of Creatinine clearance; and oral glucose tolerance test (OGTT).
- Determination of plasma enzyme activities of alanine amino transferase (ALT) ,aspartate amino transferase (AST), amylase, creatine phosphokinase (CK), alkaline phosphatase (ALP), and lactate dehydrogenase (LDH).
- Clinical interpretation of common laboratory values of the compounds and enzymes as listed above.
- Determination of amino acids in urine by paper chromatography (demonstration).

ACADEMIC TIMELINE

- **Course Duration:** 9 months (32 weeks of active session)
- **Total lectures:** 128 lectures (4 lectures per week).
 - Basic Biochemistry Lectures.
 - Clinically oriented lectures
- **Practicals:** One/week for each batch for two hours
- **Tutorials/Problem based Learning Sessions:** One/week for each batch for two hours

ACADEMIC CALENDER 2025-2026

	SECOND YEAR MBBS
Session	28-1-2026 – 28-10-2026
1st Class Test	16-03-2026
2nd Class Test	1 st week of June 2026
3rd Class Test	Mid September 2026
Practical Test	October 2026
Sendup	End of November 2026
Professional Examination	December 2026-January 2027

DEPARTMENT OF ANATOMY

ACADEMIC CALENDAR

Session start date 28th Feb. 2026

Session end date 10th Oct. 2026

Tentative date of sendup 1st week of November 2026

Tentative date of professional examination. 1st week of December 2026

TEACHING AND LEARNING STRATEGIES

LARGE GROUP DISCUSSION:

Venue: Anatomy Lecture theatre in Anatomy department

Number of total lectures: 4 Lectures/week

Days of Anatomy lectures: Monday, Tuesday, Friday, Saturday

PRACTICALS:

Venue: Histology laboratory in Anatomy Department Once a week for 2hrs Days of Histology Practical: Monday, Tuesday, Thursday, Saturday.

SMALL GROUP DISCUSSION (Demonstration/Dissection):

Venue: Dissection hall 5 days per week, 2hrs each Days: Monday, Tuesday, Wednesday, Thursday, Saturday

CONTACT HOURS

- **Total teaching/contact Hours: 256**
- Contact hours for Lectures: $128 \times 1 = 128$ hours
- Contact hours for Practical: $32 \times 2 = 64$ hours
- Contact hours for Tutorials: $32 \times 2 = 64$ hours

COURSE CONTENT

HEAD & NECK & ENDOCRINOLOGY 28-01-2026 to 29-04-2026 (11+1 weeks)	NEUROSCIENCES 30-04-2026 to 18-07-2026 (6+1 weeks)
GROSS ANATOMY: - Cranium, Face & Scalp, Meninges, Pterygopalatine Fossa, Ear, Orbital & Oral Cavity, Parotid, Temporal & Infratemporal regions, Nose, Bones & Fascia of Neck, Triangles of Neck, Pharynx, Larynx Glands & Neurovascular Structures of Neck	GROSS ANATOMY: - Spinal Cord, Brainstem, Cerebellum, Cerebrum, Reticular Formation, Limbic System, Basal Ganglia, Cranial Nerves, Thalamus, Hypothalamus, Autonomic System, Meninges, CSF & Ventricular System
Special Embryology - Development of Skeletal System (2) - Development of Body Cavities (2) - Development of Respiratory System (3) - Development of CVS (8) - Development of Head & Neck (6) - Development of Special Senses (4)	Special Embryology - Development of Muscular System (2) - Development of Limbs (2) - Development of Skin & Mammary Glands (2) - Development of Nervous System (5)
Special Histology - Histology of Lip, Tongue & Salivary Glands (3) - Histology of Endocrine System (3) - Histology of Special Senses (4)	Special Histology - Histology of Nervous System (4) - Histology of Mammary Glands (1)
Histology Practical - Lip - Tongue - Glands: Salivary, Thyroid, Parathyroid, Adrenal & Pituitary - Eyelid & Cornea - Eyeball & Retina - Pinna	Histology Practical - Spinal Cord - Cerebrum - Cerebellum - Mammary Gland
GIT 20-07-2026 to 26-08-2026 (5+1 weeks)	GENITOURINARY 27-08-2026 to 03-10-2026 (5+1 weeks)
Gross Anatomy - Lumbar Vertebrae, Anterior Abdominal Wall, Peritoneum, Esophagus, Stomach, Small & Large Intestines, Large Blood Vessels of Gut, Lumbar Plexus, Extrahepatic Biliary Apparatus, Spleen, Pancreas & Liver.	Gross Anatomy - Posterior Abdominal Wall, Kidney & Ureter, Suprarenal Gland & Chromaffin System, Sacrum, Bony Pelvis, Pelvic Walls & Floor, Urinary Bladder & Urethra, Rectum & Anal Canal, Male & Female Reproductive Organs, Perineum, Male & Female External Genitalia, Internal Iliac Vessels & Sacral Plexus
Special Embryology - Development of GIT (8)	Special Embryology - Development of Urogenital system (6)
Special Histology - Histology of GIT (9)	Special Histology - Histology of Renal system (3) - Histology of Male and female Genital system (6)
Histology Practical - Esophagus - Stomach - Small Intestine - Large Intestines (Colon & Appendix) - Rectum & Anal Canal - Liver & Gallbladder - Pancreas	Histology Practical - Kidney & Ureter - Urinary Bladder & Urethra - Testis & Vas Deferens - Prostate Gland & Seminal Vesicle - Ovary & Uterine Tube - Uterus

GASTROINTESTINAL TRACT (GIT)

Topic	Learning Outcomes
Oral Cavity Hard & Soft Palate	- Describe the gross anatomical features of the oral cavity, its boundaries, contents with neurovascular supply and lymphatic drainage. - Identify the skeletal framework of the hard palate, its constituent bones, sutures, foramina and correlate it to cleft palate formation. Outline the muscles of the soft palate including their attachments, nerve supply and actions. Explain and correlate the role of the soft palate in swallowing and speech, with relevant clinical conditions (e.g., cleft palate, palatal paralysis).
Tongue & Hypoglossal Nerve	- Describe the structure of the tongue including its musculature, neurovascular supply and lymphatic drainage. - Explain the anatomical basis and clinical features of hypoglossal nerve lesion. - Outline the lymphatic drainage pathways and routes of spread of carcinoma in the oral cavity.
Salivary glands. (Parotid, submandibular and sublingual)	- Describe the location, anatomical features, relations, neurovascular supply of the parotid gland. - Enlist the structures entering and leaving the parotid gland. - Trace the course and opening of the parotid duct. - Outline the branching pattern of the facial nerve and correlate it with clinical features of facial nerve injury and complications of parotid tumor surgery. - Explain the anatomical basis of common parotid gland disorders including viral inflammation (mumps), bacterial parotitis, and Frey's syndrome. - Describe the location, morphology, relations, neurovascular supply and lymphatic drainage of submandibular and sublingual glands and identify their openings.
Anterior Abdominal Wall	- Identify and mark the anatomical planes and quadrants used in abdominal division and explain their clinical significance in organ localization and surgical practice. - Draw and label the cutaneous innervation and dermatomes of the anterolateral abdominal wall. - Discuss the clinical significance of dermatomes in visceral pain localization, referred pain patterns, neurological assessment and nerve blocks. - Outline the basic organization and continuity of the fascia of the anterior abdominal wall with surrounding regions. - Explain the clinical relevance of abdominal fascia in spread of fluid/infection, surgical incisions, wound healing and hernias. - Describe the arterial supply and lymphatic drainage of the anterolateral abdominal wall, and explain the clinical correlation of its venous drainage in caput medusae. - Describe the attachments, nerve supply and actions of the muscles of the anterolateral abdominal wall. - Identify and mark these muscles on cadavers and anatomical models. - Illustrate the extent, formation and contents of the rectus sheath at different levels. - Discuss the role of abdominal wall muscles in trunk movement, core stability, intra-

	abdominal pressure, respiration and visceral support. • Describe the common abdominal incisions, their anatomical basis and clinical indications.
Inguinal Canal	• Describe the formation, extent and modifications of the inguinal ligament. • Locate superficial and deep inguinal ring on a cadaver or simulated subject. • Explain the boundaries, extent and direction of inguinal canal. • Enumerate the contents of inguinal canal in males and females. • Enlist the layers and contents of spermatic cord. • Explain the anatomical basis of the cremasteric reflex, including its reflex arc, nerve supply, and clinical significance. • Define different types of hernias: inguinal, femoral, umbilical, epigastric, incisional, lumbar. • Differentiate between direct and indirect inguinal hernias and correlate their clinical features and anatomical relevance.
Peritoneum	• Define peritoneum and differentiate between parietal and visceral peritoneum. • Explain the somatic and autonomic innervation of peritoneum with clinical correlation to pain localization. • Define peritoneal cavity and divide it into different potential spaces. • Enlist the boundaries of greater sac, lesser sac and epiploic foramen. • Trace the horizontal and vertical disposition of peritoneum in the abdominal cavity. • Describe omenta, mesenteries, ligaments, recesses, pouches and paracolic gutters. • Trace the spread and accumulation of fluid within the peritoneal cavity. • Discuss the anatomical basis of peritonitis, ascites, abdominal paracentesis, peritoneal dialysis and peritoneal adhesions and adhesiotomy.
Esophagus & Stomach	• Describe the gross anatomy of esophagus with its neurovascular supply and lymphatic drainage. • Enlist esophageal constrictions. • Describe the anatomical basis of Dysphagia, esophageal varices, barrette esophagus, achalasia cardia and Gastro Esophageal Reflux Disease (GERD) • Describe the anatomical position, parts, external and internal features, relations and peritoneal reflections of stomach on a prosected specimen. • Draw and label the vascular supply and lymphatic drainage of the stomach. • Discuss the nerve supply of stomach with a special reference to vagotomy. • Explain the underlying anatomy of hypertrophic pyloric stenosis, peptic ulcers, partial and total gastrectomy and carcinoma of the stomach. • Describe the importance of endoscopy in evaluation of esophageal varices and Barium meal in radiographic evaluation of esophageal and gastric disorders.
Small Intestine	• Enlist different parts of duodenum and describe their peritoneal and visceral relations, neurovascular supply and lymphatic drainage. • Locate the opening of common bile duct on a model of duodenum.

	• Differentiate between jejunum and ileum on gross examination. • Trace the attachment of root of mesentery in a cadaver/ Anatomical model. • Describe the anatomical relevance of the following conditions: ○ Duodenal ulcers. ○ Meckel's diverticulum. ○ Intestinal obstruction (volvulus, intussusception)
Large Intestine	• Distinguish between small and large intestine on gross examination. • Define appendices epiploicae, Teniae Coli and Haustra. • Describe the gross anatomy of caecum and appendix including peritoneal and visceral relations, neurovascular supply and lymphatic drainage. • Identify the ileocecal junction and locate appendix on a cadaver. • Demonstrate different positions of appendix on an anatomical model. • Describe the gross anatomy and relations (visceral & peritoneal) of ascending, transverse descending and sigmoid colon. • Draw and label the arterial supply of colon. • Describe the venous, lymphatic drainage and nervous innervation of the colon. • Describe anatomical relevance of acute appendicitis and pain in right iliac fossa. • Mark the incision of appendectomy on a cadaver/ model and differentiate between open and laparoscopic appendectomy. • Explain anatomical basis of ulcerative colitis, spread of colorectal carcinoma, diverticulosis, volvulus, colostomy, sigmoidoscopy and colonoscopy.
Rectum and Anal Canal	• Describe the gross anatomy and relations (visceral & peritoneal), neurovascular supply and lymphatic drainage of rectum and anal canal. • Recognize different zones of anal canal by defining pectinate line and white line of Hilton. • Differentiate between the structure and nerve supply of internal and external anal sphincter. • Enumerate the boundaries, contents and communications of ischioanal fossa. • Differentiate between internal and external hemorrhoids based on anatomical location, venous drainage, nerve supply, and clinical features. • Describe the anatomical basis and clinical features of rectal prolapse, rectal examination, anal fissure, anal fistula and perianal abscess.
Great Vessels of Abdomen	• Describe the extent, course, and anatomical relations of the abdominal aorta. • Classify and outline the branches of the abdominal aorta including its major subdivisions. • Explain the origin, course, and distribution of major branches. • Discuss aortic aneurysm, aortic dissection, branch occlusion, palpation sites and relevance in surgical procedures. • Describe the formation, course, relations, tributaries and termination of IVC. • Explain inferior vena cava syndrome and its role in venous obstruction. • Trace the collateral circulation in IVC obstruction.

	• Describe the role of IVC in central venous access and in abdominal and vascular surgeries.
Portosystemic Anastomosis	• Describe the formation, course, relations, tributaries and termination of portal vein. • Explain the concept of the portal venous system and trace the flow of blood from abdominal organs to the liver sinusoids and hepatic circulation. • Define portosystemic anastomoses and describe their sites, contributing vessels and functional significance. • Define portal hypertension with its clinical features and complications.
Liver	• Describe the location, lobes, surfaces, peritoneal and visceral relations of liver. • Palpate the liver in a simulated subject and define hepatomegaly. • Enlist bare areas of liver. • Explain its blood supply, lymphatic drainage, and nerve supply. • Draw and label the segments of liver. • Describe the surgical importance of liver resection and biopsy. • Discuss the role of Pringle's maneuver in controlling hepatic bleeding during liver surgery. • Define liver cirrhosis and explain its clinical relevance to portal hypertension.
Biliary System	• Name different parts of biliary tree and describe their relations and neurovascular supply. • Describe the formation, course, relations and termination of the common hepatic and bile duct. • Enlist the boundaries and contents of Calot's triangle and explain its surgical importance. • Define obstructive jaundice, gallbladder gangrene, cholelithiasis, choledocholithiasis, cholecystitis. • Describe underlying mechanism of biliary colic and its referral to other sites. • Mark the incision of cholecystectomy on a cadaver. • Describe the types of cholecystectomy (open, laparoscopic, robotic, and subtotal) with reference to relevant hepatobiliary anatomy.
Pancreas	• Describe the location, parts, relations, neurovascular supply and lymphatic drainage of pancreas. • Outline the course of main and accessory pancreatic ducts and identify their openings. • Describe the anatomical basis of pancreatitis, pancreatic carcinoma and its spread. • Describe the role of ERCP (Endoscopic Retrograde Cholangiopancreatography) in the evaluation and management of disorders of the biliary and pancreatic ductal systems.
Spleen	• Demonstrate the anatomical position of spleen. • Describe its location, surfaces, borders, poles, relations, neurovascular supply and the contents of hilum. • Explain clinical manifestations of splenomegaly, splenic rupture and splenectomy.

HEAD & NECK & ENDOCRINOLOGY

TOPICS	LEARNING OUTCOMES
Topographic anatomy of Skull. Cranial Cavity	Demonstrate the anatomical position of skull with special emphasis on planes of anatomical position. • Appreciate the norms of skull from different views along with its foramina • Enlist the structures traversing the foramina of the bones of the skull • Identify important bony landmarks on the bones as viewed from lateral, superior, inferior, anterior and posterior views. • Identify the bones forming the boundaries of orbit, nasal cavity, oral cavity, temporal, infratemporal fossa & pterygopalatine fossa on the given bone. (detail to be done with relevant topics) • Describe and demonstrate the boundaries and gross features of cranial fossae. • List and demonstrate foramina along with structures passing through them in anterior, middle and posterior cranial fossae. • Recognize and demonstrate the important sutures, fontanelle and impressions on the interior of cranial vault.
Meninges and Dural Venous sinuses	• Explain the meninges of brain and spinal cord along with the reflections of dura mater in brain. • Enlist paired and unpaired Dural venous sinuses along with their attachments • Describe the location, important relations, and communications of the cavernous sinus and enumerate structures passing through it. • Describe the clinical presentation of following clinical disorders associated with meninges and Dural venous sinuses: • Meningitis • Epidural hemorrhage • Subdural hemorrhage • Subarachnoid hemorrhage
Mandible	• Describe the ramus and body of the mandible concerning its bony features and attachments. • Identify the anatomical parts of the mandible along with its foramina and structures passing through it • Explain the clinical presentation of different fractures of the mandible with relevant anatomical basis • Identify the bony landmarks and site of attachment of muscle.

Scalp	• Correlate gross features of each layer with an anatomical basis of black eye, profuse bleeding, gaping wound, spread of scalp infection and hematoma formation. • Demonstrate the extent of the scalp on the given model. • Identify the muscles and neurovascular structures related to scalp on prosected specimen/given models. • Describe the layers of the scalp in a sequential order.
Face	• Elucidate the cutaneous innervation of face • Enlist the group of facial muscles according to the orifices they guard. • Describe the nerve supply of muscles of facial expressions. • Describe the course of arteries, veins, lymphatics and nerves of the face with the help of model. • Describe the course and distribution of facial nerve • Emphasize the relationship of facial nerve with pterygopalatine and submandibular ganglia • Highlight the effects of lesion of facial nerve at different levels • Differentiate anatomical basis of clinical presentation of UMN and LMN lesion of facial nerve • Correlate gross features of face with anatomical basis of danger area, trigeminal neuralgia, Bell's palsy. • Identify muscles of facial expressions • Demonstrate the cutaneous innervation of the face on the given model • List embryological sources of head and neck structures with special emphasis on pharyngeal apparatus. • Tabulate the nerve and blood supply and derivatives of all arches, pouches, clefts and membranes.
Submandibular Region	• Describe the location of major salivary glands (anatomical relations) along with opening of their ducts. • Illustrate the secretomotor nerve supply of major salivary glands. • Revisit boundaries of submandibular triangle • Describe the parts, relations, neurovasculature of submandibular gland. • Illustrate the routes of submandibular ganglion • Describe the distribution of submandibular ganglion • Correlate the anatomy of submandibular fascial space with Ludwig's angina • Identify the nerves, vessels and glands in the sub mandibular regions on the given model. • Describe the histomorphological features of salivary glands with regards to their secretory and ductal systems • Identify H&E Stained slides of submandibular gland and sublingual glands and draw their labelled diagrams.

Parotid Region	• Elucidate the surfaces, borders, shape, location, parts, relations and drainage of parotid gland • List contents of parotid region • Trace the pathway of autonomic supply of parotid gland. • Enumerate structures embedded in parotid gland in a sequential order. • Interpret the following clinical conditions related to parotid gland: Infection (mumps) , tumor and stone of parotid gland and Frey's Syndrome. • Identify the nerves, vessels and glands in the parotid region on the given model • Identify H&E Stained slides of parotid gland and draw their labelled diagrams.
Orbit	• Revisit the skeletal framework of bony orbit and its communications • Enlist the contents of orbit • Describe the course and distribution of ophthalmic nerve and artery. • Enumerate different components of the lacrimal apparatus • Describe the nerve supply of the Lacrimal gland • Define Horner's Syndrome • Explain the developmental anomalies of the nasolacrimal duct • Identify extraocular muscles, and neurovascular structures of eyeball on given models. • Tabulate the attachments, nerve supply, and actions of extraocular muscles • Justify the movements of extraocular muscles based on their attachments • Identify extraocular muscles, and neurovascular structures of the eyeball on given models • Illustrate the course and distribution of 3, 4 and 6 CNs • Outline the route and distribution of ciliary ganglion
Tongue and oral Cavity	• Outline the floor, roof, lateral walls and vestibule of oral cavity. • Describe topographic features of tongue. • Tabulate the actions and nerve supply of muscles (intrinsic and extrinsic) of tongue • Tabulate the attachments, nerve supply, actions of muscles of soft palate. • Illustrate the pathway of gag reflex. • Differentiate a case of UMN and LMN lesion of hypoglossal nerve • Correlate Lymphatic drainage of different parts of tongue with spread of malignancy • and infection of tongue.

Temporal & infratemporal regions + TMJ	• Identify the location, boundaries, contents and communications of temporal and infratemporal fossa on a given model and skull. • Describe the course and distribution of mandibular nerve from origin to distribution • Tabulate the attachments, actions and nerve supply of muscles of mastication. • Trace location, various routes and distribution of otic ganglion • Justify role of lateral pterygoid as a peripheral heart on anatomical basis of pterygoid venous plexus • Elucidate importance of pterygoid venous plexus in case of intracranial spread of infection to cavernous sinus. • Specify the origin and distribution of superficial temporal, First and second parts of the maxillary artery • Specify the origin and distribution of Chorda tympani till it joins the lingual nerve. • Outline the type, articular surfaces, capsule, ligaments, supporting factors, movements, and nerve supply of TMJ • Describe movements of TMJ regarding axes and muscles producing them • Correlate a case of dislocation and reduction of TMJ with anatomical knowledge of TMJ. • Identify the nerves, vessels and muscles in temporal and infratemporal fossa on the given model. • Identify the involved articular surfaces and site of attachment of muscles on the given model • Demonstrate the different movements at the temporomandibular joint on the given model.
Nose and Paranasal Sinuses	• Describe features of different walls of nose. • Describe the features, vascular supply, nerve supply and openings in lateral wall of nose • Describe the features, vascular supply, and nerve supply of the medial wall of the nose • Highlight the significance of Little's area in a case of epistaxis • Identify the location of pterygopalatine fossa on skull • List bones forming walls of pterygopalatine fossa • Enumerate its contents and communications • Describe the distribution of third part of maxillary artery, nerve and pterygopalatine ganglion • Justify the role of pterygopalatine ganglion in hay fever/allergies • Outline the development of nose and paranasal sinuses • Identify the location of paranasal sinuses in sagittal section of skull

	• Demonstrate the location and drainage of paranasal sinuses in skull and on radiograph • Demonstrate the structure of lateral wall of nose on the given model • Identify the location of pterygopalatine fossa on skull.
EAR	• Describe the gross anatomical features of the auricle, external auditory meatus, and tympanic membrane. • Correlate the role of first and second pharyngeal apparatus in development of ear. • Describe the differentiation of otic capsule into inner ear. • Correlate the anomalies of external ear with neural crest cells • Identify the histological structure of different parts of ear, particularly the external and internal ear • Identify the gross features of external ear on given model • Identify H&E-stained slide of pinna and cochlea and draw their labelled diagrams. • Correlate nerve supply of external ear and tympanic membrane with clinical significance (perforation of tympanic membrane) • Justify the anatomical basis of otoscopy in infants and adults. • Describe the gross anatomical features, boundaries, structures and contents of middle ear cavity. Describe the structures forming the walls of middle ear cavity on the given model. • Trace/ Outline the pathway and distribution of facial nerve within petrous part of temporal bone • Identify the walls of middle ear on given model. • Highlight the importance of infection in middle ear cavity in relation to its relevant communications. • Identify the bony and membranous parts of inner ear on model • Describe the histological structure of sensory receptor areas of internal ear like Organ of Corti maculae acousticae and crista ampullaris • Identify the cells and spaces in cochlea • Identify the parts of bony and membranous parts of inner ear on given model. • Describe various hearing Abnormalities • Discuss the various hearing tests including auditory evoked potentials (especially in reference to menier's disease) • Interpret audiometry findings in perceptive and conductive deafness • Discuss presentation, investigation and management of hearing loss and common hearing disorders.
NECK	• Hyoid bone & Cervical vertebrae • Explain the gross features and attachments of the hyoid bone

	• Give distinguishing features of each cervical vertebra. Compare the key anatomical features of each cervical vertebra. • Enumerate structures passing through foramina • Identify the types and movements of atlantoaxial and atlanto-occipital joints • Outline ligamentous attachments on cervical vertebrae. • Superficial & deep cervical Fascia • Outline contents of the superficial fascia of the neck (platysma, external jugular vein) • Enumerate the layers of deep cervical fascia. • Trace / Specify the attachments of investing, pre-tracheal, carotid sheath, and prevertebral layers of fascia. • Identify various modifications and neck spaces formed by fascial attachments. • Comprehend / Describe the clinical importance of neck spaces in the spread of infection. Triangles of neck: • Tabulate the attachments, nerve supply, actions of superficial and deep muscles of neck (sternocleidomastoid, suprahyoid, infrahyoid, suboccipital, prevertebral muscles). • Identify boundaries and contents of triangles of neck on model • Describe the origin, course and distribution of vessels and nerves of neck (cervical plexus, Ansa cervicalis, Common carotid artery, Internal jugular vein, subclavian vessels). • Analyze a case of lesion of accessory glossopharyngeal and vagus nerve on anatomical basis. • Describe the clinical features of torticollis, Larynx • Describe laryngeal wall in detail with emphasis on cartilages, ligaments, muscles, vascular supply and nerve supply. • Analyze mechanism of abduction and adduction of vocal cords • Distinguish clinical presentations of injury to external, internal and recurrent laryngeal nerves. • Recognize clinical significance of piriform fossa. • Explain the following with reference to their anatomical basis: • Laryngoscopy • Aspiration of foreign body from laryngopharynx.

	PHARYNX • Differentiate extent, anatomical features, vascular supply, nerve supply of three parts of pharynx on anatomical basis List muscles of pharynx with nerve supply and action • Name structures passing through the spaces between muscles of pharynx • Trace origin of pharyngobasilar fascia on base of skull. • Correlate anatomical knowledge of pharyngobasilar fascia with patency of nasopharynx • Justify role of Eustachian tube in equalizing middle ear pressure, age related obliquity • Describe anatomical route of spread of infections from nasopharynx to middle ear. • Relate boundaries of tonsillar fossa and tonsillar bed with significant structures that must be protected during tonsillectomy. • Define Killian's dehiscence Skill • Identify and locate different subdivisions and boundaries of pharynx on given model. Lymphatic drainage of neck • Enumerate the groups of lymph nodes draining the neck. • Describe their location and areas of drainage. • Describe the formation of jugular lymph trunk. • Describe the clinical importance of • lymphatic drainage of neck.
Endocrine Glands	• Classify the glands • Describe the structure and location of all endocrine glands in the body Describe the gross anatomy, neurovascular supply and clinical importance of pituitary gland. • Describe the gross anatomy, neurovascular supply and clinical importance of Thyroid gland • Describe the gross anatomy, neurovascular supply and clinical importance of parathyroid glands • Describe the development and congenital anomalies of parathyroid glands • Revisit the gross anatomy, neurovascular supply and clinical importance of endocrine portion of pancreas. • Revisit the gross anatomy, neurovascular supply and clinical importance of adrenal gland

Neurosciences

Course Content	Learning Outcomes
Spinal Cord	• List the major divisions, components of the central nervous system. • Demonstrate the structure of brain and spinal cord on prosected specimens and models. • Identify the normal structure of brain and spinal cord in the images of CT scan & MRI. Explain the gross appearance and the nerve cell groups in the anterior, posterior, and lateral gray columns of the spinal cord • Enumerate and illustrate the arrangements of ascending and descending tracts (white matter) in spinal cord at various levels. • Explain the given clinical conditions related to ascending and descending tracts of spinal cord. • Explain the various thermal sensations, thermal receptors, and their excitation and transmission of thermal signals in the nervous system
	• Classify the different types of pain. • Compare the perception and transmission of the different types of pain. • Explain the pain suppression system in the brain and spinal cord. • Describe the brain's opiate system endorphins and enkephalins • Explain the role of proprioceptors (muscle spindles and Golgi tendon organs) in motor movements • Explain dynamic and static stretch reflex • Describe the flexor reflex and the crossed extensor reflex. • Explain the reciprocal inhibition and reciprocal innervation. • Identify the reflexes of posture and locomotion in the spinal cord. • Explain the role of primary motor cortex, premotor area, and supplementary motor area in the control of voluntary motor movements. • Identify the various pathways for the transmission of signals for voluntary motor control from the motor cortex to the muscles. • Explain the significance of anterior motor neurons as the lower motor neurons. • Identify the role of the brain stem in controlling motor function and role in posture of the body against gravity. • Explain the role of pyramidal and extrapyramidal tract in the voluntary motor movements. • Describe the clinical abnormalities of pain and other somatic sensations • Determine the anatomical and pathophysiological relevance of the following clinical conditions: • Upper motor neuron lesions, lower motor neuron lesions • Hemiplegia, paraplegia and Quadriplegia • Spinal shock syndrome • Complete cord transection syndrome • Anterior cord syndrome • Central cord syndrome

	• Brown sequard syndrome • Syringomyelia • Poliomyelitis • Multiple sclerosis • Amyotrophic lateral sclerosis
Brainstem	• Describe the gross appearance and internal structure of the medulla oblongata. • Illustrate the cross sections of medulla oblongata at different levels. • Explain the effects of raised pressure in the posterior cranial fossa on the structures contained within it. • Describe the gross features and internal structure of pons. • Illustrate cross-section of pons at different levels showing major structures at each level. • Describe the gross appearance and internal structure of the midbrain. • Illustrate cross sections at the level of superior colliculus and inferior colliculus showing major structures at each level.
Cerebellum	• Enumerate and illustrate histological layers of cerebellar cortices and different cell types of these layers. • Summarize the characteristic developmental events of Cerebellum • Describe the gross features of cerebellum. • List intracerebellar nuclei and types of fibers constituting white matter of cerebellum and explain their routes of entry and exit. • Explain the pathways carrying afferent and efferent fibers to and from the cerebellum.
Cerebrum	• Identify main sulci and gyri of cerebral hemispheres and describe the extent of each of them. • Explain the divisions of cerebral lobes on superolateral, medial, and inferior surfaces of cerebral hemispheres. • Enumerate fibers making up the white matter of cerebral hemispheres and describe each of them. • Identify different components of cerebrum on prosected specimen • Describe the cortical functional areas in different lobes of cerebral hemispheres • Draw and □ Label Homunculus. Define important clinical correlates. • Describe internal structure of cerebral hemisphere; white matter, Basal ganglia, Lateral ventricle

Diencephalon Basal Ganglia	• Discuss the Location, Relations, Blood supply, nuclei and major connections of Thalamus, Hypothalamus, Epithalamus, Subthalamus, Metathalamus • Describe and Illustrate the Hypothalamic and pituitary gland Nuclei with their functions, location afferents. • Describe the Hypothalamo-Hypophyseal Portal System. • Describe connections and functions of different nuclei constituting basal ganglia. • List hyperkinetic disorders related with various basal nuclei like chorea, hemiballismus and athetosis, • Describe Parkinson disease regarding • Etiology, pathophysiology, clinical features and treatment.
Ventricular system	• Describe the anatomical organization of ventricular system of brain • Explain the boundaries of each ventricle along with their choroid plexus. • Explain formation, circulation and absorption of CSF. • Enlist the structures forming blood brain and blood CSF barriers • Identify the features of various ventricles on models and prosected specimen. • Illustrate the floor of fourth ventricle
Limbic System	• Explain the functions of various components of limbic system and role of hippocampus in memory. • Classify memories based on type of sensory experience, time of retention, synaptic facilitation and habituation • Explain the process of consolidation of memory through chemical and anatomical changes occurring at the synapse.
BLOOD SUPPLY OF BRAIN, CSF	• Describe the blood supply of different parts of brain and spinal cord emphasizing on circle of Willis • Explain the formation and importance of venous system • Identify various blood vessels of brain and spinal cord on models and prosected specimen. • Explain the significance of blood brain barrier. • Describe the process of lumbar puncture, including sequential enumeration of the anatomical structures that a needle passes through during a spinal tap. • Explain causes & varieties of Hydrocephalus

HISTOLOGY PRACTICALS

Date	Topic
02-02-2026 to 07-02-2026	Lip
09-02-2026 to 14-02-2026	Tongue
16-02-2026 to 21-02-2026	Salivary glands (Parotid, submandibular, sublingual)
23-02-2026 to 28-02-2026	Thyroid & Parathyroid gland
02-03-2026 to 07-03-2026	Adrenal gland
09-03-2026 to 14-03-2026	Pituitary gland
16-03-2026 to 21-03-2026	Eyelid
24-03-2026 to 28-03-2026	Cornea
30-03-2026 – 11-04-26	Batch C (Cornea) Batch A, D,B (Revision)
13-04-26 to 17-04-26	Eye Ball
20-04-26 to 24-04-26	Pinna
27- 04-26 to 02-05-26	Revision
04-05-2026 to 09-05-2026	Spinal Cord
11-05-2026 to 16-05-2026	Cerebellum
18-05-2026 to 23-05-2026	Cerebrum
25-05-2026 to 30-05-2026	Mammary Gland

20-7-26 to 25-7-26	Oesophagus
27-7-26 to 1-8-26	Stomach
3-8-26 to 8-8-26	Small intestine
10-8-26 to 15-8-26	Large intestine (Colon & Appendix)
17-8-26 to 22-8-26	Rectum & Anal canal
24-8-26 to 29-8-26	Liver & Gall bladder
31-8-26 to 5-9-26	Pancreas

7-9-26 to 12-9-26	Kidney & Ureter
14-9-26 to 19-9-26	Urinary bladder & Urethra
21-9-26 to 26-9-26	Testis & Vas deferens
28-9-26 to 3-10-26	Prostate gland & Seminal vesicles
5-10-26 to 10-10-26	Ovary, Uterine tube & Uterus

MODULE

GENERALIZED MODULE

DURATION **10 DAYS (02-01-25 to 13-01-2025)**

CONTACT HOURS Lectures =31.5 hours + Practicals= 30.50 Hours + Hospital stay = 10.5 HOURS

CREDIT HOURS = 2.7

TEACHING METHODOLOGIES Lectures/Practical/clinics

OBJECTIVES

The course is designed primarily for 3rd year MBBS students and will cover the fundamental aspects of General microbiology and the general aspects of pharmacology and Forensic medicine. The basic outlines and the introduction of interrelated clinical aspects of Medicine, Surgery, Orthopedics, Eye, Ear, Nose and Throat will be given. By the end of the module, the students should be able to:

1. Give:

- Introduction to General Microbiology
- Bacterial cell structure
- Bacterial genetics/ Mutations
- Pathogenesis
- Laboratory Diagnosis of bacterial infections

2. Discuss the

- Introduction & Branches of Pharmacology and development of new drugs

3. GENERAL ASPECTS OF FORENSIC TOXICOLOGY

4. History taking of Infectious diseases

5. Introduction to surgical Patients

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
Day 1 02-01-2025 (Thursday)							
8.00-8.45am	1	Branches of Pharmacology and development of new drugs			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30am	2	Introduction to Pathology/ General Microbiology		Prokaryotes vs. eukaryotes Branches of microbiology	Robins/Levinson	Pathology	45 min
9.30-10.15am	3	GENERAL ASPECTS OF FORENSIC TOXICOLOGY: sources ,forms, actions of poisons				Forensic Medicine	45 min
Hospital work 10.30-12.00							
12.10-2.00pm		Practical		Batch C: small group discussion Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
Day 2 03-01-2025 (Friday)							
8.00-8.45am	4	Active principles of Drugs			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30am	5	History taking of Infectious diseases				Medicine	45 min
9.30-10.15am	6	Bacterial cell structure		Cell wall composition and functions Intracellular structures and organelles Plasmids and spores		pathology	45 min

10.30 —12.00pm		PRACTICAL		Batch A: small group discussion Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 3 04-01-2025 (Saturday)							
8.00-8.45am	7	Bacterial growth		Nutritional requirements and types of bacteria on basis of nutritional requirements		Pathology	45 min
8.45-9.30am	8	Introduction to surgical Patients				Surgery	45 min
9.30-10.15am	9	Routes of administration of drugs			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
10.15-11.00am	10.					Pharmacology	45 min
11.00-11.45am	11.					Pathology	45 min
11.45-12.30pm	12.					Eye	45 min
12:45-02:30pm		Practical		Batch B: small group discussion Batch C: Pharmacology Batch A : Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 4 06-01-2025(Monday)							
8.00-8.45 am	13.	Diagnosis of poisoning(in living & dead)				Forensic Medicine	45 min
8.45-9.30am	14.	Transport of drugs across cell membrane			Basic and clinical pharmacology	Pharmacology	45 min
9.30-10.15am	15.	Pathogenesis				pathology	45 min
Hospital work 10.30-12.00							
12.10—02.00pm		PRACTICAL		Batch C: small group discussion Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

DAY 5 07-01-2025(Tuesday)							
8.00-8.45am	16.	Pathogenesis				pathology	45 min
8.45-9.30am	17.					Orthopedics	45 min
9.30-10.15am	18	General principles of treatment, medical and legal duties				Forensic Medicine	
Hospital work 10.30-12.00pm							
12.10am – 02:00 pm		PRACTICAL		Batch A: small group discussion Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 6 08-01-2025(Wednesday)							
8.00-8.45am	19.	Classification of medically important bacterial & normal flora			Robbins Pathology	Pathology	45 min
8.45-9.30am	20.	Common infections in ear, nose & throat		GRAM POSITIVE BACTERIA; Group A beta hemolytic streptococci Streptococcus pneumonia Staphylococcus aureus Streptococcus viridans		ENT	
9.30-10.15am	21.	Identification & preservation of evidentiary material, dispatch for analysis				Forensic Medicine	
Hospital work 10.30-12.00pm							
12.10pm — 02.00pm		PRACTICAL		Batch B: small group discussion Batch C: Pharmacology Batch A: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 7 09-01-2025 (Thursday)							
8.00-8.45am	22.	Laboratory Diagnosis of bacterial infections I		Approach to diagnosis		Pathology	45 min

8.45-9.30am	23	Absorption and factors affecting absorption of drugs bioavailability			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
9.30-10.15am	24	Laboratory Diagnosis of bacterial infections II		Antibiotic sensitivity testing		Pathology	45 min
Hospital work 10.30-12.00pm							
12.10-2.00pm		PRACTICAL		Batch C: small group discussion Batch A: Pharmacology Batch B: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 8 10-01-2025 (Friday)							
8.00-8.45am	25.	Sterilization & Disinfection I		Classification of disinfectants Methods of sterilization		Pathology	45min
8.45-9.30am	26.	Biotransformation & factors affecting them			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
9.30-10.15am	27.	Issuance of medico legal certificate in poisoning cases, related laws				Forensic Medicine	45 min
10.30 —12.00pm		PRACTICAL		Batch A: small group discussion Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 9 11-01-2025 (Saturday)							
8.00-8.45am	28.	Sterilization & Disinfection II			Robbins Pathology	Pathology	45 min
8.45-9.30am	29.	Excretion & plasma half life			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min

9.30-10.15am	30.	Basic concept of General Virology		Structure and classification pathogenesis		Pathology	45 min
10.15 – 11:00am	31.					Surgery	45 min
11.00- 11.45am	32.					Orthopedic	45 min
11:45-12.30pm	33.					Pathology	45 min
12.45—02.30pm		Practical		Batch B: small group discussion Batch C: Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 10 13-01-2025 (Monday)							
8.00-8.45am	34.	Excretion & plasma half life			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30am	35.	Fallacies in the results(Toxicological artifacts)				Forensic Medicine	45 min
9.30-10.15am	36.	Basic concept of General Mycology		Structure and classification pathogenesis		Pathology	45 min
Hospital work 10.30-12.00pm							
12.10—02.00pm		Practical		Batch C: small group discussion Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ Forensic radiological lab 12:45pm – 2:30pm	Class divisible in three batches	Respective departments	

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MODULE

INFLAMMATION

DURATION **12 DAYS (01-02-2025 to 15-02-2025)**

CONTACT HOURS Lectures 39 =31.50 hours + Practicals = 30 Hours + Hospital stay = 12 Hours

CREDIT HOURS 2.6

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES

The course is designed primarily for 3rd year M.B.B.S students and will cover the fundamental aspects of inflammation, and pharmacology of anti-inflammatory drugs with interrelated clinical aspects of medicine, surgery, orthopaedic surgery, eye, nose and throat. By the end of the module the students should be able to:

1. Describe :

The cells and types of inflammation, cellular and vascular events of inflammation.

Process of phagocytosis.

Outcome of inflammatory process

Acute and chronic inflammatory conditions of nose and throat

Inflammatory conditions of orbit and eyelid

2. Discuss the role of:

Chemical mediators in inflammation and anti-inflammatory drugs.

Autocoids, serotonin and its antagonists.

Medicolegal certification in different injuries

3 .Elaborate

Types of Injuries along with their mechanics

Difference between antemortem/postmortem injuries

Systemic effects of inflammation and choice of analgesics.

TIME		COURSE CONTENT	PLAC E	LEARNING OUTCOME	Recommended books	DEPARTMEN T/ Facilitator	DURATION
WEEK 1							
DAY 1 01-02-25 (Saturday)							
8.00-8.45am	1	General Features and types of inflammation, Historical background, its cardinal signs. Acute Inflammation: introduction and stimuli leading to inflammation and vascular events.		Understanding the general concept of inflammation and being able to - define inflammation along with its types and cardinal signs - vascular changes such as change in caliber and vascular flow as well as vascular leakage.	Robbins Pathology	Pathology	45 min
8.45- 9.30 am	2	Clinical aspects of inflammation (immune, infections, chemical). Clinical differences between acute and chronic inflammation				Medicine	45 mins
9.30-10.15am	3	Classification of non-steroidal anti-inflammatory drugs. Pharmacokinetics of NSAIDs		Student should be able to enumerate various NSAIDs and understand their routes of administration absorption, distribution, metabolism and excretion.	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
10:15-11:00am	4					Forensic Medicine	45 min
11:00-11:45am	5					Forensic Medicine	45 min
11:45-12:30pm	6					Pharmacology	45 min
12:45-02:30pm		Practical		Batch B: Acute appendicitis Batch C: Small group discussion Batch A: General description of injury regarding age of injury.	Class divisible in three batches	Respective departments	

DAY 2 03-02-25 (Monday)							
8.00-8.45am	7.	Mechanism of action of NSAIDs, Adverse effects, contraindications and drug interactions of NSAIDs		Student should be able to describe MOA, adverse effects contraindications and drug interactions of NSAIDs with reference to aspirin as prototype	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 mins
8.45am-9.30am	8.	Mechanism of action of NSAIDs, Adverse effects, contraindications and drug interactions of NSAIDs		Student should be able to describe MOA, adverse effects contraindications and drug interactions of NSAIDs with reference to aspirin as prototype	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 mins
9.30-10.15am	9.	Cellular events of inflammation : Leucocyte recruitment and activation		Student should be able to describe the cellular events taking place during inflammation such as Margination, rolling and adhesion to endothelium Transmigration across the endothelium Migration towards a chemotactic stimulus	Robbins Pathology	Pathology	45 min
Hospital work 10.30-12.00							
12.10-2.00PM		PRACTICAL		Batch C : Acute Appendicitis Batch A : Small group discussion Batch B: General description of injury regarding age of injury.	Class divisible in three batches	Respective departments	
DAY 3 04-02-25 (Tuesday)							
8.00-8.45am	10.	Regional Injuries		Students should have sound knowledge of regional injuries		Forensic Medicine	45 min
8.45-9.30am	11.					Pharmacology	45 min

9.30-10.15am	12.	Autacoids histamine and antihistamine.		Student should be able to recall various generations of antihistamines and role of antihistamine in allergic conditions. Their adverse effects and drug interactions.	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
Hospital work 10.30-12.00							
12.10 -2.00pm		PRACTICAL		Batch A: Acute Appendicitis Batch B : Small group discussion Batch C: General description of injury regarding age of injury.	Class divisible in three batches	Respective departments	
DAY 4 06-02-25 (Thursday)							
8.00-8.45am	13	Serotonin agonist and antagonists		Student should be able to explain/understand the use of serotonin agonist and antagonists	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 Min
8.45-9.30am	14	Cell derived chemical mediators of inflammation cont: Details of cytokines,TNF,Chemokines,Reactive oxygen species and nitrous oxide		Students should have sound knowledge of Different components of cytokines and chemokines		Pathology	45 min
9.30-10.15 am	15	Clinical aspects of acute and chronic inflammation. An introduction to vasculitis.				Medicine	45 mins
Hospital Work 10.30-12.00							
12.10-02:00pm		PRACTICAL		BATCH C: Chronic cholecystitis Batch A: Small group Discussion Batch B: Certification of injury MLC's	Class divisible in three batches	Respective departments	

DAY 5 07-02-25 (Friday)							
8.00-8.45am	16.					Forensic Medicine	45 mins
8.45am-9.30am	17	Regional Injuries/Manner of Injuries		Student should be able to enumerate Regional Injuries/Manner Of Injuries		Forensic medicine	45 min
9.30-10.15am	18	Overview of Acute inflammatory conditions of nose and throat.		Students should be able to describe: Acute tonsillitis Acute pharyngitis Acute laryngitis Acute sinusitis		ENT	45 mins
10.30 - 12.00pm		PRACTICAL		Batch A: Chronic cholecystitis Batch B: small group discussion Batch C: Certification of injury MLC's	Class divisible in three batches	Respective departments	
DAY 6 08-02-25(Saturday)							
8.00-8.45am	19 .	Cellulitis, Boils, Folliculitis, Impetigo & erythema		Students should have sound understanding of acute inflammatory condition		Surgery	45 min
8.45-9.30am	20.	Prostaglandins pharmacological effects, Clinical uses of prostaglandins		The use of prostaglandins in various clinical conditions	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
9.30-10.15am	21.	Cell derived Chemical Mediators of Inflammation : details of Vasoactive amines Arachidonic acid metabolites ,Platelet activation factors.		Student should have a sound knowledge of - Prostaglandins and leucotrienes - Differences between different mediators involved in cyclooxygenase and lipooxygenase pathways.	Robbins pathology	Pathology	45 mins

10.15-11:00am	22.					Surgery	
11:00-11:45am	23.					Pathology	
11:45-12:30pm	24.					Forensic Medicine	
12.45-02.30		PRACTICAL		Batch B: ESR determination and its importance Batch C: Therapeutic modalities and choice of analgesics Batch A: Trauma cases which are kept under observation	Class divisible in three batches	Respective departments	
DAY 7 10-02-25 (Monday)							
8.00-8.45am	25.	Bacterimia, Pyaemia, Sepsis, Abscess, Septic Shock		Students should be able to describe various inflammatory processes.		Surgery	45 mins
8.45-9.30am	26.	Disease modifying anti- rheumatic drugs (DMARDS)		Student should be able to enumerate DMARDS and explain their MOA, adverse effects and contraindications	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 mins
9.30-10.15am	27.	Plasma protein derived Chemical Mediators of inflammation (details of complement system, kinin system, clotting system)		. The student should be able to i) Enumerate vasoactive amines ii) Describe the 3 systems of plasma proteins integrating during course of inflammation	Robbins Pathology	Pathology	45 min
Hospital work 10.30-12.00							
12.10-02.00		PRACTICAL		Batch C : ESR determination and its importance Batch A : Therapeutic modalities and choice of analgesics Batch B: Trauma cases which are kept under observation	Class divisible in three batches	Respective departments	

DAY 8		11-02-25 (Tuesday)					
8.00-8.45am	27.	Phagocytosis.		Student should develop the understanding of leucocyte activation and being able to describe: • Recognition and attachment of leucocytes • Engulfement • Killing and degradation • Release of leucocyte products and tissue injury caused by it Briefly the defects in leucocyte dysfunction and its effects on inflammation		Pathology	45 MIN
8.45- 9.30 am	28.	Glucocorticoids P/K:Therapeutic indications, Adverse effects, contraindications and drug interactions		Student should be able to explain p/k of various glucocorticoids, their clinical uses ,adverse effects, contraindications and drug interactions	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 mins
9.30-10.15 am	29.	Investigation and management of inflammatory case.				Medicine	45 Mins
Hospital work		10.30-12.00					
12.10-2.00		Practical		Batch A: ESR determination and its importance Batch B: Therapeutic modalities and choice of analgesics Batch C :Trauma cases which are kept under observation	Class divisible in three batches	Respective departments	

DAY 9 12-02-25 (Wednesday)							
8.00-8.45am	30.	Drugs/Age Of Injury		Students should have understanding of various drugs and be able to define age of injury		Forensic Medicine and Toxicology	45 MIN
8.45-9.30 am	31.	Phagocytosis by macrophages		Students should have sound knowledge of various recetors present on macrophages, their function and steps of phagocytosis in machrophages.		Pathology	45 mins
9.30- 10.15 am	32.	Antagonists of adrenocortical agents		They should have a sound knowledge of adverse effects and contraindications to the use of adrenocortical agents.	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 mins
Hospital work 10.30-12.00							
12.10-2.00		Practical		Batch B: ESR determination and its importance Batch C : Therapeutic modalities and choice of analgesics Batch A : Trauma cases which are kept under observation	Class divisible in three batches	Respective departments	
DAY 10 13-02-25 (Thursday)							
8.00-8.45am	33	Lymphangitis, Fascitis, Folliculitis		Students should be able to describe the the various acute inflammatory coditions		Surgery	45 mins
8.45-9.30 am	34.	Inflammatory conditions of eye : Stye,Chlazion,Blephritis, Preseptal Cellulitis and Herpes zoster Infection		Students should be able to identify the various inflammatory conditions of eye.		Eye	45 mins
9.30-10.15 am	35	Anti TB drugs		Students should have knowledge of various Anti tuberculous drugs and their adverse effects.	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	

Hospital work				10.30-12.00			
12.10-02.00		Practical		Batch C: Tuberculosis of lung/ Granuloma Batch A: small group discussion Batch B: (Final Opinion) Interpretation of results	Class divisible in three batches	Respective departments	
DAY 11 14-02-25 (Friday)							
8.00-8.45am	36	Overview of chronic inflammatory conditions of nose and throat.		Students should be able to describe: Chronic tonsillitis Quinsy(Peritonsillar Abscess) Chronic pharyngitis Chronic laryngitis Chronic sinusitis Rhinitis		ENT	45 mins
8.45-9.30am	37	Inflammatory conditions of bones and joints		Students should develop understanding of mechanism and complications of wound contamination		Orthopaedics	45 mins
9.30-10.15 am	38	Orbital Cellulitis, Pseudo tumors of orbit , Dacrocystitis		Students should be able to describe Orbital Cellulitis, Pseudo tumors of orbit , Dacrocystitis		Eye	45 mins
10.30- 12.00 pm		Practical		Batch A: Tuberculosis of lung/ Granuloma Batch B : small group discussion Batch C : (Final Opinion) Interpretation of results	Class divisible in three batches	Respective departments	
Day 12 15-02-25 (Saturday)							
8.00-8.45am	39	Paronychia , Subungal abscess,Hideradenitis		Students should be able to describe the acute inflammatory conditions and should have sound knowledge of septic shock		Dermatology	45 MIN

8.45-9.30am	40	Mineralocorticoid and mineralocorticoid antagonist .		Student should be able to understand uses of various mineralocorticoid agonist and antagonist.	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 mins
9.30-10.15am	41	Chronic Inflammation:Granulomatous Inflammation with special emphasis on Tuberculosis		Student should be able to describe • Cells of Chronic inflammation • Formation of granuloma • Tuberculous granuloma		Pathology	45 MIN
10.15-11:00am	42					Surgery	45 MIN
11.00-11.45am	43					Pathology	45 MIN
11.45-12.30pm	44					Forensic Medicine	45 MIN
12.45-02:30pm		Practical		Batch B : Tuberculosis of lung/ Granuloma Batch C: small group discussion Batch A: (Final Opinion) Interpretation of results	Class divisible in three batches	Respective departments	

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TIME TABLE OF 3rd YEAR MBBS (Generalized Module& 1stIntermodule) (2024-2025)

GENERALIZED MODULE 02-01-2025 TO 13-01-2025								
Date	Day	8.00-8.45am	8.45-9.30am	9.30-10.15am	Hospital work 10.30-12.00pm			Practical 12.10-02.00 pm
02-01-25	Thursday	Pharmacology	Pathology	Forensic Medicine	Hospital work 10:30 am to 12:00 pm			C: Pathology A: Pharmacology B: Forensic medicine
03-01-25	Friday	Pharmacology	Medicine	Pathology	Practical Respective Departments (10:30am to 12:00pm)			A: Pathology B: Pharmacology C: Forensic medicine
04-01-25	Saturday	Pathology	Surgery	Pharmacology	Pharmacology (10.15-11.00 am)	Pathology (11.00-11.45am)	EYE (11.45-12.30 pm)	B: Pathology C: Pharmacology A: Forensic medicine (12:45 am to 02:30 pm)
06-01-25	Monday	Forensic Medicine	Pharmacology	Pathology	Hospital work 10:30 am to 12:00 pm			C: Pathology A: Pharmacology B: Forensic medicine (12:45 pm to 2:30pm)
07-01-25	Tuesday	Pathology	Orthopedics	Forensic Medicine	Hospital work 10:30 am to 12:00 pm			A: Pathology B: Pharmacology C: Forensic medicine
08-01-25	Wednesday	Pathology	ENT	Forensic Medicine	Hospital work 10:30 am to 12:00 pm			B: Pathology C: Pharmacology A: Forensic medicine
09-01-25	Thursday	Pathology	Pharmacology	Pathology	Hospital work 10:30 am to 12:00 pm			C: Pathology A: Pharmacology B: Forensic medicine
10-01-25	Friday	Pathology	Pharmacology	Forensic Medicine	Practical Respective Departments (10:30am to 12:00pm)			A: Pathology B: Pharmacology C: Forensic medicine
11-01-25	Saturday	Pathology	Pharmacology	Forensic Medicine	Surgery (10.15-11.00)	Orthopedics (11.00-11.45)	Pathology (11.45-12.30)	B: Pathology C: Pharmacology A: Forensic medicine (12:45 am to 02:30 pm)
13-01-25	Monday	Pharmacology	Forensic Medicine	Pathology	Hospital work 10:30 am to 12:00 pm			C: Pathology A: Pharmacology B: Forensic medicine

1ST INTERMODULE (14-01-2025 TO 30-01-2025)

14-01-25	Tuesday	Pathology	Medicine	Surgery	Hospital work 10:30 am to 12:00 pm			A: Pathology B: Pharmacology C: Forensic medicine
15-01-25	Wednesday	Pharmacology	Pathology	Forensic Medicine	Hospital work 10:30 am to 12:00 pm			B: Pathology C: Pharmacology A: Forensic medicine
16-01-25	Thursday	Pharmacology	ENT	Pathology	Hospital work 10:30 am to 12:00 pm			C: Pathology A: Pharmacology B: Forensic medicine
17-01-25	Friday	Forensic Medicine	Pharmacology	Pathology	Practical Respective Departments (10:30am to 12:00pm)			A: Pathology B: Pharmacology C: Forensic medicine
18-01-25	Saturday	Surgery	ENT	Medicine	Forensic Medicine 10:15-11:00	Pathology 11:00-11:45	Pharmacology 11:45-12:30	B: Pathology C: Pharmacology A: Forensic medicine (12:45 pm to 02:30pm)
20-01-25	Monday	Medicine	Orthopaedics	Pathology	Hospital work 10:30 am to 12:00 pm			C: Pathology A: Pharmacology B: Forensic medicine
21-01-25	Tuesday	Pathology	Pharmacology	Pathology	Hospital work 10:30 am to 12:00 pm			A: Pathology B: Pharmacology C: Forensic medicine
22-01-25	Wednesday	Pharmacology	Forensic Medicine	Pathology	Hospital work 10:30 am to 12:00 pm			B: Pathology C: Pharmacology A: Forensic medicine
23-01-25	Thursday	Forensic Medicine	Pharmacology	Pathology	Hospital work 10:30 am to 12:00 pm			C: Pathology A: Pharmacology B: Forensic Medicine
24-01-25	Friday	Forensic Medicine	Pharmacology	Pathology	Practical Respective Departments (10:30am to 12:00pm)			A: Pathology B: Pharmacology C: Forensic medicine (10:30 am to 12:00 pm)
25-01-25	Saturday	Surgery	Pathology	Pharmacology	Pharmacology 10:15-11:00	Forensic Medicine 11:00-11:45	EYE 11:45-12:30	B: Pathology C: Pharmacology A: Forensic medicine (12:45 pm to 02:30pm)
27-01-25	Monday	Forensic Medicine	Pathology	Surgery	Hospital work 10:30 am to 12:00 pm			C: Pathology A: Pharmacology

						B: Forensic medicine
28-01-25	Tuesday	Forensic Medicine	Pharmacology	Pathology	Hospital work 10:30 am to 12:00 pm	A: Pathology B: Pharmacology C: Forensic medicine
29-01-25	Wednesday	Pharmacology	Pathology	Forensic Medicine	Hospital work 10:30 am to 12:00 pm	B: Pathology C: Pharmacology A: Forensic medicine
30-01-25	Thursday	Pathology	Pharmacology	Forensic Medicine	Hospital work 10:30 am to 12:00 pm	C: Pathology A: Pharmacology B: Forensic medicine

All lectures will be conducted in Forensic Lecture Theatre.

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TIME TABLE OF 3rd YEAR MBBS (Inflammation & 2nd Intermodule)
1st February, 2025 to 05th March, 2025

INFLAMMATION MODULE (28th February 2024 To 12th March 2024)								
Date	Day	8.00-8.45 am	8.45-9.30am	9.30-10.15am	Hospital work 10.30-12.00pm			Practical 12:10Pm-02:00PM
01-02-25	Sat	Pathology	Medicine	Pharmacology	10:15-11:00 Forensic Medicine	11:00-11:45 Forensic Medicine	11:45-12:30 Pharmacology	B: Pathology C: Pharmacology A: Forensic medicine (12:45pm to 02:30pm)
03-02-25	Mon	Pharmacology	Pharmacology	Pathology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
04-02-25	Tue	Forensic Medicine	Pharmacology	Pharmacology	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
06-02-25	Thu	Pharmacology	Pathology	Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
07-02-25	Fri	Forensic Medicine (Test)		ENT	PRACTICAL 10.30-12:00			A: Pathology B: Pharmacology C: Forensic medicine
08-02-25	Sat	Surgery	Pharmacology	Pathology	10:15-11:00 Surgery	11:00-11:45 Pathology	11:45-12:30 Forensic Medicine	B: Pathology C: Pharmacology A: Forensic medicine (12:45pm to 02:30pm)
10-02-25	Mon	Surgery	Pharmacology	Pathology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
11-02-25	Tue	Pathology	Pharmacology	Medicine	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
12-02-25	Wed	Forensic medicine	Pathology	Pharmacology	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine

13-02-25	Thu	Surgery	Eye	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
14-02-25	Fri	ENT	Orthopaedics	Eye	PRACTICAL 10.30-12:00			A: Pathology B: Pharmacology C: Forensic medicine
15-02-25	Sat	Dermatology	Pharmacology	Pathology	10:15-11:00 Surgery	11:00-11:45 Pathology	11:45-12:30 Forensic Medicine	B: Pathology C: Pharmacology A: Forensic medicine (12:45pm to 02:30pm)
2nd Intermodule (17th February, 2025 to 05th March, 2025)								
17-02-25	Mon	Surgery	Forensic Medicine	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
18-02-25	Tue	Medicine	Pharmacology	Forensic Medicine	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
19-02-25	Wed	Forensic Medicine	Pharmacology	Orthopaedics	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine
20-02-25	Thu	Pharmacology	Forensic Medicine	Pathology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
21-02-25	Fri	Forensic Medicine	Pharmacology	Medicine	PRACTICAL 10.30-12:00			A: Pathology B: Pharmacology C: Forensic medicine
22-02-25	Sat	Forensic Medicine	Medicine	Pharmacology	10:15-11:00 Orthopedics	11:00-11:45 ENT	11:45-12:30 Eye	B: Pathology C: Pharmacology A: Forensic medicine (12:45PM to 02:30pm)
24-02-25	Mon	Forensic Medicine	Pharmacology	Pathology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
25-02-25	Tue	Forensic Medicine	Surgery	Forensic Medicine	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine

26-02-25	Wed	ENT	Forensic Medicine	Surgery	Hospital work 10.30-12.00pm	B: Pathology C: Pharmacology A: Forensic medicine
27-02-25	Thu	Forensic Medicine	Surgery	Forensic Medicine	Hospital work 10.30-12.00pm	C: Pathology A: Pharmacology B: Forensic medicine
28-02-25	Fri	SELF STUDY		Hospital work 10.30-12.00pm		
01-03-25	Sat	Pathology Assessment (09:00a.m. to 10:00a.m.)		Hospital work 10.30-12.00pm		
03-03-25	Mon	Forensic Medicine Assessment (09:00a.m. to 10:00a.m.)		Hospital work 10.30-12.00pm		
04-03-25	Tue	SELF STUDY		Hospital work 10.30-12.00pm		
05-03-25	Wed	Pharmacology Assessment (09:00a.m. to 10:00a.m.)		Hospital work 10.30-12.00pm		

All lectures will be conducted in Forensic Lecture Theatre

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2nd INTERMODULE

DURATION 15 DAYS

(17-02-2025 TO 05-03-2025)

CONTACT HOURS Lectures =22.5 hours + Practicals = 22.50 Hours + Hospital stay = 10.5 HOURS

CREDIT HOURS = 2.0

TEACHING METHODOLOGIES Lectures/Practicals/clinics

OBJECTIVES

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
DAY 1 17-02-2025 (Monday)							
8.00-8.45	1	-				SURGERY	45 min
8.45-9.30	2	Drug dependence, Polydrug abuse & identification of addiction at autopsy				Forensic medicine	45 min
9.30-10.15	3	CVS			Basic and clinical pharmacology 12 th edition Katzung	Pharmacology	45 min
HOSPITAL WORK 10:30 – 12:00							
12.10—02.00		Practical		Batch C: Group discussions Batch A : Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 2 18-02-25 (Tuesday)							
8.00-8.45	6.	Symptoms of Neurological system		Coma Upper motor neuron hemiplegia-paraplegia Lower motor neuron paraplegia Headaches Seizure Movement disorders (parkinsonism)		Medicine	45 min

8.45-9.30	7.	CVS			Basic and clinical pharmacology 12 th edition Katzung	Pharmacology	45 min
9.30-10.15	8.	Alcohols/Forensic medical examination, diagnosis & certification in living & dead				Forensic medicine	45 min
HOSPITAL WORK 10:30 – 12:00							
12.10-02.00		PRACTICAL		Batch A: Group Discussions Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 3 19-02-25 (Wednesday)							
8.00-8.45	9.	Hypnotics & sedatives				Forensic medicine	45 min
8.45-9.30	10.	CVS			Basic and clinical pharmacology 12 th edition Katzung	Pharmacology	45 min
9.30-10.15	11.					Orthopaedics	45 min
HOSPITAL WORK 10:30 – 12:00							
12.10 — 02.00pm		PRACTICAL		Batch B: Group Discussions Batch C : Pharmacology Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 4 20-02-25 (Thursday)							
8.00-8.45	12.					Pharmacology	45 min
8.45-9.30	13.	Hallucinogens: Cannabis, cocaine				Forensic medicine	45 min
9.30-10.15	14.	Healing by repair & scar formation				Pathology	45 min

HOSPITAL WORK 10:30 – 12:00							
12.10-02.00p.m.		PRACTICAL		BATCH C : Group Discussions Batch A : Pharmacology Batch B : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 5 21-02-25(Friday)							
8.00-8.45	15	Insecticides ,venomous insects & snakes				Forensic medicine	45 min
8.45-9.30	16	CVS			Basic and clinical pharmacology	Pharmacology	45 min
9.30-10.15	17					Medicine	45 min
10.30-12.00p.m.		PRACTICAL		Batch A: Group Discussions Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 6 22-02-2025 (Saturday)							
8.00-8.45	21.	Statue laws related to dangerous drugs				Forensic medicine	45 min
8.45-9.30	22.	-		-		Medicine	45 min
9.30-10.15	23				Basic and clinical pharmacology 12 th edition Katzung	Pharmacology	45 MIN
10.15-11:00am	24					Orthopedics	45 min
11:00-11:45am	25					ENT	45 min
11:45am- 12:30pm	26					Eye	45 min
12.45-2.30		PRACTICAL		Batch B: Group Discussions Batch C: Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

DAY 7 24-02-25 (Monday)							
8.00-8.45	27.	Agrarian toxicology; Poisonous plants			-	Forensic medicine	45 min
8.45-9.30	28.	CVS				Pharmacology	45 min
9.30-10.15	29.					Pathology	45 min
Hospital work 10.30-12.00							
12.10 —2.00		Practical		Batch C: Group Discussions Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	12.10—2.30
DAY 8 25-02-25 (Tuesday)							
8.00-8.45	30.	ENVIRONMENTAL TOXICOLOGY; Poisoning by CO,CO2, H2S, methane „Forensic medical examination & certification as cause of death				Forensic medicine	45 min
8.45-9.30	31.	-	-	-		Surgery	45 min
9.30-10.15	32.	Pesticides				Forensic medicine	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch A: Group Discussions Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 9 26-02-25 (Wednesday)							
8.00-8.45	33					ENT	45 min
8.45-9.30	34.	Herbicide				Forensic medicine	45 min
9.30-10.15	35					Surgery	45 min

Hospital work10.30-12.00							
12.10—02.00p.m		Practical		Batch B : Group Discussions Batch C: Pharmacology Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
Day 1027-02-25 (Thursday)							
8.00-8.45 am	36	Medicolegal Importance according to Qisas and Diyat law (Nature of injury)		Students should have thorough understanding of medicolegal importance of Islamic law		Forensic medicine and Toxicology	45mins
8.45-9.30 am	37					Surgery	45 mins
9.30-10.15 am	38	Complications of Injury		-		Forensic Medicine and Toxicology	45 mins
Hospital work10.30-12.00							
12.10-02.00pm				Batch C: Group discussions Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab			
28-02-2025 (Friday)		SELF STUDY			HOSPITAL WORK 10.30-12.00p.m.		
01-03-2025 (Saturday)		Pathology Assessment (09:00a.m- 10:00a.m.)			HOSPITAL WORK 10.30-12.00p.m.		
03-03-2025 (Monday)		Forensic Medicine Assessment (09:00a.m- 10:00a.m.)					
04-03-2025 (Tuesday)		SELF STUDY			HOSPITAL WORK 10.30-12.00p.m.		
05-03-2025 (Wednesday)		PHARMACOLOGY ASSESSMENT (09:00a.m- 10:00a.m.)			HOSPITAL WORK 10.30-12.00p.m.		

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TIME TABLE OF 3rd YEAR MBBS (Special Microbiology Module)
(06-03-2025 to 21-05-2025)

Date	Day	8.00-8.45 am	8.45-9.30am	9.30-10.15am	Hospital work			Practical (12.10-2.00 pm)
06-03-2025	Thursday	Surgery	Pathology	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
07-03-2025	Friday	Pathology	Medicine	Forensic Medicine	Practical Respective Departments 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
08-03-2025	Saturday	Pharmacology	Pathology	Medicine	Orthopedics 10:15-11:00am	ENT 11:00-11:45am	EYE 11:45-12:30Noon	B: Pathology C: Pharmacology A: Forensic medicine (12.45-2.30pm)
10-03-2025	Monday	Pharmacology	Pathology	Forensic Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
11-03-2025	Tuesday	Forensic medicine	Pathology	Surgery	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
12-03-2025	Wednesday	Pharmacology	Pathology	Forensic Medicine	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine
13-03-2025	Thursday	Pathology	Surgery	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
14-03-2025	Friday	Pathology	Medicine	Surgery	Practical Respective Departments 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
15-03-2025	Saturday	Pathology	Medicine	Pharmacology	Forensic Medicine 10:15-11:00am	ENT 11:00-11:45am	EYE 11:45-12:30Noon	B: Pathology C: Pharmacology A: Forensic medicine (12.45-2.30pm)
17-03-2025	Monday	Pharmacology	Pathology	Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine

18-03-2025	Tuesday	Surgery	Pharmacology	Pathology	Hospital work 10.30-12.00pm			A: Pathology B:Pharmacology C: Forensic medicine
19-03-2025	Wednesday	Pathology	Dermatology	Pharmacology	Hospital work 10.30-12.00pm			B: Pathology C:Pharmacology A: Forensic medicine
20-03-2025	Thursday	Forensic Medicine	Pathology	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A:Pharmacology B: Forensic medicine
21-03-2025	Friday	Pathology	Urology	Forensic Medicine	Practical Respective Departments 10.30-12.00pm			A: Pathology B:Pharmacology C: Forensic medicine
22-03-2025	Saturday	Pathology	Medicine	Pharmacology	Surgery 10:15- 11:00am	Medicine 11:00- 11:45am	EYE 11:45- 12:30Noon	B: Pathology C:Pharmacology A: Forensic medicine (12.45-2.30pm)
24-03-2025	Monday	Pharmacology	Forensic Medicine	Medicine	Hospital work 10.30-12.00pm			C: Pathology A:Pharmacology B: Forensic medicine
25-03-2025	Tuesday	Forensic Medicine	Pharmacology	Pathology	Hospital work 10.30-12.00pm			A: Pathology B:Pharmacology C: Forensic medicine
26-03-2025	Wednesday	Pharmacology	Pharmacology	Orthopedics	Hospital work 10.30-12.00pm			B: Pathology C:Pharmacology A: Forensic medicine
27-03-2025	Thursday	Forensic Medicine	Pharmacology	Pathology	Hospital work 10.30-12.00pm			C: Pathology A:Pharmacology B: Forensic medicine
28-03-2025	Friday	Forensic Medicine	Medicine	Forensic Medicine	Practical Respective Departments 10.30-12.00pm			A: Pathology B:Pharmacology C: Forensic medicine
29-03-2025	Saturday	Pharmacology	Forensic Medicine	Forensic Medicine	Pathology 10:15- 11:00am	Pharmacology 11:00- 11:45am	ENT 11:45- 12:30Noon	B: Pathology C:Pharmacology A: Forensic medicine (12.45-2.30pm)
31-03-2025	Monday	Surgery	Medicine	Pathology	Hospital work 10.30-12.00pm			C: Pathology A:Pharmacology B: Forensic medicine

09-04-2025	Wednesday	Pathology	Medicine	Pathology	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine
10-04-2025	Thursday	Forensic Medicine	Pathology	Surgery	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
11-04-2025	Friday	Physiology	Pharmacology	Pathology	Practical Respective Departments 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
12-04-2025	Saturday	Orthopedics	Pathology	Pharmacology	Pharmacology 10:15- 11:00am	Forensic Medicine 11:00- 11:45am	Orthopedics 11:45- 12:30Noon	B: Pathology C: Pharmacology A: Forensic medicine (12.45-2.30pm)
14-04-2025	Monday	Pathology	Forensic Medicine	Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
15-04-2025	Tuesday	Pathology	Forensic Medicine	Pathology	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
16-04-2025	Wednesday	Pathology	Surgery	Forensic Medicine	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic Medicine
17-04-2025	Thursday	Forensic Medicine	Medicine	Pathology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
18-04-2025	Friday	Surgery	Pathology	Medicine	Practical Respective Departments 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
19-04-2025	Saturday	EYE	Orthopedics	Pathology	Forensic Medicine 10:15- 11:00am	ENT 11:00- 11:45am	Pathology 11:45- 12:30Noon	B: Pathology C: Pharmacology A: Forensic Medicine (12.45-2.30pm)
21-04-2025	Monday	Pathology	Forensic Medicine	Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
22-04-2025	Tuesday	Pathology	Surgery	Forensic Medicine	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
23-04-2025	Wednesday	Pathology	Medicine	Pharmacology	Hospital work			B: Pathology

					10.30-12.00pm			C: Pharmacology A: Forensic Medicine
24-04-2025	Thursday	Pathology	Medicine	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
25-04-2025	Friday	Surgery	Pathology	Pharmacology	Practical Respective Departments 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
26-04-2025	Saturday	Forensic Medicine	ENT	EYE	ENT 10:15- 11:00am	Pharmacol ogy 11:00- 11:45am	Pharmacolo gy 11:45- 12:30Noon	B: Pathology C: Pharmacology A: Forensic Medicine (12.45-2.30pm)
28-04-2025	Monday	Pharmacology	Pathology	Forensic Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
29-04-2025	Tuesday	Pathology	Medicine	Forensic Medicine	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
30-04-2025	Wednesday	Surgery	Forensic Medicine	Pathology	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic Medicine
02-05-2025	Friday	Pharmacology	Surgery	Pathology	Practical Respective Departments 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
03-05-2025	Saturday	Forensic Medicine	Pathology	Orthopedics	Pathology 10:15- 11:00am	Surgery 11:00- 11:45am	Pharmacolo gy 11:45- 12:30Noon	B: Pathology C: Pharmacology A: Forensic Medicine (12.45-2.30pm)
05-05-2025	Monday	Forensic Medicine	Forensic Medicine	Pathology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
06-05-2025	Tuesday	Pathology	ENT	EYE	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
07-05-2025	Wednesday	Forensic Medicine	Pathology	Orthopedics	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic Medicine

08-05-2025	Thursday	Pathology	Forensic Medicine	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
09-05-2025	Friday	Pathology	DME	Pharmacology	Practical Respective Departments 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
10-05-2025	Saturday	EYE	Pathology	Orthopedics	Pharmacology (10:15-11:00am)	Forensic Medicine (11:00-11:45am)	Orthopedics (11:45-12:30PM)	B: Pathology C: Pharmacology A: Forensic Medicine (12:45PM to 02:30PM)
12-05-2025	Monday	ENT	Forensic Medicine	Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
13-05-2025	Tuesday	Forensic Medicine	Pharmacology	Orthopedics	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
14-05-2025	Wednesday	Forensic Medicine	Pathology	EYE	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic Medicine
15-05-2025	Thursday	Surgery	Forensic Medicine	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
16-05-2025	Friday	Self-Study			Hospital work 10.30-12.00pm			
17-05-2025	Saturday	Pathology Assessment (Special Bacteriology) (09:00am to 10:00am)			Hospital work 10.30-12.00pm			
19-05-2025	Monday	Forensic Assessment (09:00am to 10:00am)			Hospital work 10.30-12.00pm			
20-05-2025	Tuesday	Self-Study			Hospital work 10.30-12.00pm			
21-05-2025	Wednesday	Pharmacology Assessment (09:00am to 10:00am)			Hospital work 10.30-12.00pm			

All lectures and assessment will be conducted in Forensic Lecture Theatre.

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MODULE

SPECIAL MICROBIOLOGY

DURATION **58 DAYS (06th March, 2025 to 21st May, 2025)**

CONTACT HOURS Lectures 168 = 126 hours + Practicals = 48 Hours + Hospital stay = 120 Hours

CREDIT HOURS 11.9

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES:

This integrated module of special microbiology is proposed for 3rd year M.B;B.S. It will introduce the class with microorganisms, the various diseases produced by them and their clinical presentations. It is intended to extend knowledge, understanding and practical skills in the field of microbiology.

By the end of the module the students should have acquired a basic theoretical and practical knowledge of:

Antimicrobial agents and their use,

Clinical microbiology

Parasitology and mycology

Medical, surgical and allied (Eye, ENT, Orthopaedic surgery) related infections and their clinical presentation

A core knowledge of forensic medicine and toxicology will also be included in this module.

The course is intended to cover the capabilities of:

Knowledge (Of microbes and antimicrobial agents)

Technical expertise (Handling of samples, examination of urine and stool specimens, interpretation of antibiogram and various biochemical tests, performing autopsies etc)

Critical analysis and problem solving) (small group discussions, tutorials)

Communication (working in clinics, studying clinical cases)

TIME			PLAC E	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURAT ION
DAY 1 06-03-2025 (Thursday)							
8.00-8.45am	1.	Overview of Bacteraemia and Septicaemia				Surgery	
8.45-9.30am	2.	Staphylococcus aureus (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15am	3.	Principles of antimicrobial drug action				Pharmacology	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch C: Gram staining Batch A : Small group discussion Batch B: Medico legal autopsies	Class divisible in three batches	Respective departments	
DAY 2 07-03-2025 (Friday)							
8.00-8.45am	4.	Streptococcus pneumonia, Beta hemolytic Streptococcus type a and b (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30am	5.	Pneumonia				Medicine	45 mins
9.30-10.15am	6.	Objectives, rules and techniques of autopsy				Forensic Medicine	45 mins
10.30—12.00pm		Practical		Batch A: Gram staining Batch B : Small group discussion Batch C : Medico legal autopsies	Class divisible in three batches	Respective departments	
DAY 3 08-03-2025 (Saturday)							
8.00-8.45am	7.	Penicillines and cephalosporins (1)				Pharmacology	45 mins

8.45-9.30am	8.	Beta Haemolytic streptococci (Cont) ,Diphtheria Sp. (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15am	9.	Infective endocarditis				Medicine	45 mins
10.15-11.00am						Orthopedics	
11.00-11.45am						ENT	
11.45-12.30am						EYE	
12.45—2.30pm		PRACTICAL		Batch B: Gram staining Batch C: Small group discussion Batch A: Medico legal autopsies	Class divisible in three batches	Respective departments	
DAY 4 10-03-2025 (Monday)							
8.00-8.45am	10.	Penicillines and cephalosporins (2)				Pharmacology	45 min
8.45-9.30am	11.	Bacillus anthracis, Bordetella sp. (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15am	12.	Biological weapons (Anthrax, tetanus etc)				Forensic Medicine	45 mins
Hospital work 10.30-12.00							
12.10—2.00 pm		PRACTICAL		Batch C : Oxidase and catalase test Batch A : Small group discussion Batch B : Examination of stomach contents	Class divisible in three batches	Respective departments	

DAY 5 11-03-2025 (Tuesday)							
8.00-8.45am	13.	Preperation of autopsy protocol, types of autopsy				Forensic Medicine	45 min
8.45-9.30am	14.	Actinomyces israelli, Nocardia asteroides (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15am	15	Actinomycosis ,Anthrax and Gonorrhea				surgery	45 mins
Hospital work 10.30-12.00							
12.10-02:00 pm		PRACTICAL		Batch A: Oxidase and catalase test. Batch B: Small group discussion Batch C : Examination of stomach contents	Class divisible in three batches	Respective departments	
DAY 6 12-03-2025 (Wednesday)							
8.00-8.45am	16.	Penicillines and cephalosporins (3)				Pharmacology	45 min
8.45-9.30 am	17.	Clostridium difficile, Clostridium botulinum (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15am	18.	Food poisoning including botulism				Forensic Medicine	45 mins
Hospital work 10.30-12.00							
12.10—2.00 pm		PRACTICAL		Batch B: Oxidase and catalase test. Batch C: Small group discussion Batch A : Examination of stomach contents	Class divisible in three batches	Respective departments	

Day 7 13-03-2025 (Thursday)							
8.00-8.45am	22.	Clostridium perfringens (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
8.45-9.30am	23.	Gas gangrene and synergistic gangrene				Surgery	45 mins
9.30-10.15am	24.	Sulphonamides and trimethoprim				Pharmacology	45 mins
Hospital work 10.30-12.00							
12.10 — 02.00pm		PRACTICAL		Batch C : Various culture media Batch A : Small group discussion Batch B: Preparation of autopsy report (certification)	Class divisible in three batches	Respective departments	
DAY 8 14-03-2025 (Friday)							
8.00-8.45 am	25.	Clostridium tetani (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45mins
8.45-9.30 am	26.	Tetanus				Medicine	45 mins
9.30-10.15 am	27.	Surgical aspects of tetanus				Surgery	45 Mins
10.30-12.00pm		Practical		Batch A : Various culture media Batch B: Small group discussion Batch C : Preparation of autopsy report (certification)	Class divisible in three batches	Respective departments	
DAY 9 15-03-2025 (Saturday)							
8.00-8.45 am	28.	Neisseria meningitidis, Neisseria gonorrhoeae (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins

8.45-9.30 am	29.	Meningitis				Medicine	45 mins
9.30-10.15 am	30.	Macrolides				Pharmacology	45 mins
10.15-11.00 am						Forensic Medicine	45 mins
11.00-11.45 am						ENT	45 mins
11.45-12.30pm						EYE	45 mins
12.45—2.30pm		Practical		Batch B : Various culture media Batch C : Small group discussion Batch A : Preparation of autopsy report (certification)	Class divisible in three batches	Respective departments	
DAY 10 17-03-2025 (Monday)							
8.00-8.45 am	31.	Tetracyclins				Pharmacology	45 min
8.45-9.30 am	32.	Gardenella vaginalis, Hemophilus influenzae (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	33.	Tuberculosis				Medicine	45mins

Hospital work 10.30-12.00							
12.10-02.00 pm		Practical		Batch C : ZN staining Batch A: Small group discussion Batch B: Identification of volatile poisons by steam distillation	Class divisible in three batches	Respective departments	
Day 11 18-03-2025 (Tuesday)							
8.00-8.45am	34.	Surgery in tropics : tuberculosis				Surgery	45 mins
8.45-9.30 am	35.	Anti Tuberculous Drugs				Pharmacology	45 min
9.30-10.15 am	36.	Mycobacterium tuberculosis (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	
Hospital work 10.30-12.00							
12.10-02.00 pm		Practical		Batch A : ZN staining Batch B : Small group discussion Batch C : Identification of volatile poisons by steam distillation			
DAY 12 19-03-2025 (Wednesday)							
8.00-8.45 am	37.	Mycobacterium leprae and atypical mycobacterium (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	38.	Tuberculosis and Leprosy				Dermatology	45 mins
9.30-10.15 am	39.	Anti leprosy drugs				Pharmacology	45 mins

Hospital work 10.30-12.00							
12.10— 02.00 pm		Practical		Batch B : ZN staining Batch C : Small group discussion Batch A : Identification of volatile poisons by steam distillation	Class divisible in three batches	Respective departments	
DAY 13 20-03-2025 (Thursday)							
8.00-8.45 am	43.	Definition and diagnosis of death				Forensic medicine	45 mins
8.45-9.30 am	44.	E. Coli		students should be able to know the characteristics of the micro-organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15 am	45.	Urinary antiseptics				Pharmacology	45 min
Hospital work 10.30-12.00							
12.10-02.00 pm		Practical		Batch C: Urine examination Batch A: Small group Discussion Batch B: Collection , preservation and labeling of specimens for lab examination	Class divisible in three batches	Respective departments	
DAY 14 21-03-2025 (Friday)							
8.00-8.45 am	46.	Klebsiella, Proteus (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	47.	Urinary tract infections				Urology	45 min
9.30-10.15 am	48.	Corrosives (Mineral acids)				Forensic medicine	45 min
10.30-12.00 pm		Practical		Batch B: Urine examination Batch C: Small group Discussion Batch A: Collection , preservation and labeling of specimens for lab examination	Class divisible in three batches	Respective departments	

Day 15 22-03-2025 (Saturday)							
8.00-8.45 am	49.	Salmonella (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro-organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
8.45-9.30 am	50.	Enteric Fever				Medicine	45 mins
9.30-10.15 am	51.	Chloramphenicol				Pharmacology	45 min
10.15-11.00 am						Surgery	45 min
11.00-11.45 am						Medicine	45 min
11.45-12.30pm						EYE	45 min
12.45-02.30 pm		PRACTICAL		Batch B: Urine examination Batch C: Small group Discussion Batch A: Collection , preservation and labeling of specimens for lab examination	Class divisible in three batches	Respective departments	
Day 16 24-03-2025 (Monday)							
8.00-8.45 am	52.	Aminoglycosides				Pharmacology	45 min
8.45-9.30 am	53.	Collection, preservation , dispatch of viscera and other specimens to forensic science laboratory				Forensic medicine	45 mins
9.30-10.15 am	54.	Pyrexia of unknown origin				Medicine	45 mins
Hospital work 10:30-12:00							
12.10-02.00 pm		PRACTICAL		Batch C : Widal test Batch A: Small group Discussion Batch B: Identification of inorganic metallic poisons.	Class divisible in three batches	Respective departments	

Day 17				25-03-2025 (Tuesday)			
8.00-8.45 am	55.	Medicolegal aspects of sudden and unexplained death, suspended animation				Forensic Medicine	45 min
8.45-9.30 am	56.	Miscellaneous antibacterials (1)				Pharmacology	45 min
9.30-10.15 am	57.	Shigella and yersinia pestis (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
Hospital work				10:30-12:00			
12.10-02.00 pm		Practical		Batch A : Widal test Batch B: Small group Discussion Batch C: Identification of inorganic metallic poisons	Class divisible in three batches	Respective departments	
Day 18				26-03-2025 (Wednesday)			
8.00-8.45 am	58.					Pharmacology	45 min
8.45-9.30 am	59.	Miscellaneous antibacterials (2)				Pharmacology	45 min
9.30-10.15 am	60.					Orthopedics	45 min
Hospital work				10:30-12:00			
12.10-02.00 pm		Practical		Batch B : Widal test Batch C: Small group Discussion Batch A: Identification of inorganic metallic poisons	Class divisible in three batches	Respective departments	

Day 19 27-03-2025 (Thursday)							
8.00-8.45am	64.	Changes after death				Forensic medicine	45 mins
8.45-9.30 am	65.	Quinolones				Pharmacology	
9.30-10.15 am	66.	Vibrio cholera, Vibrio parahemolyticus(Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
Hospital work 10:30-12:00							
12.10-02.00pm		Practical		Batch C: Biochemical test (1) Batch A: group discussion Batch B: Storage of dead bodies, introduction to autopsy instruments.	Class divisible in three batches	Respective departments	
Day 20 28-03-2025 (Friday)							
8.00-8.45 am	67 .	Corrosives (organic acids, alkalis)				Forensic medicine	45 mins
8.45-9.30 am	68 .	Infective diarrhea				Medicine	45 min
9.30-10.15 am	69 .	Autopsy of fragmented remains, mutilated and decomposed bodies				Forensic Medicine	45 mins
10.30-12.00 pm		Practical		Batch A: Biochemical test (1) Batch B: group discussion Batch C: Storage of dead bodies, introduction to autopsy instruments.	Class divisible in three batches	Respective departments	
Day 21 29-03-2025 (Saturday)							
8.00-8.45 am	70 .	Prophylactic use of antimicrobial drugs				Pharmacology	45 mins
8.45-9.30 am	71 .	War gasess				Forensic Medicine	
9.30-10.15 am	72 .					Forensic Medicine	45 min

10.15-11.00 am		Campylobacter jejuni, Helicobacter pylori (Pathogenesis, Epidemiology, Prevention and Control)		Students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
11.00-11.45 am						Pharmacology	45 min
11.45-12:30 pm						ENT	45 min
12.45—02.30 pm		Practical		Batch B : Biochemical test (1) Batch C: group discussion Batch A: Storage of dead bodies, introduction to autopsy instruments.	Class divisible in three batches	Respective departments	
Day 22 31-03-2025(Monday)							
8.00-8.45 am		Chest Infection				Surgery	45 min
8.45-9.30 am		Cystic Fibrosis /Pneumonia				Medicine	45 min
9.30-10.15 am						Pathology	45 min
Hospital work 10:30-12:00							
12:10-02:00		PRACTICAL		Batch C: Pathology Batch A : Pharmacology Batch B : Forensic Medicine	Class divisible in three batches	Respective departments	
Day 23 09-04-2025 (Wednesday)							
8.00-8.45 am	73 .	Legionella, Mycoplasma pneumonia. (Pathogenesis, Epidemiology, Prevention and Control)		Students should be able to know the characteristics of the microorganisms, disease caused by them their investigations and treatment		Pathology	45 Mins
08:45 – 09:30am	74 .	Abscesses (Acute and chronic) and their management				Medicine	45 Mins
09:30 – 10:15am	75 .	Chlamydia (Pathogenesis, Epidemiology, Prevention and Control, Treatment)		Students should be able to know the characteristics of the microorganisms, disease caused by them their investigations and treatment		Pathology	45 Mins

Hospital work 10:30-12:00							
12:10-02:00p.m		RESPECTIVE PRACTICAL		Batch B: Biochemical tests (2) Batch C: Group discussion Batch A: Stas OHO,s process (Extraction technique)	Class divisible in three batches	Respective Departments	
Day 24 10-04-2025 (Thursday)							
8.00-8.45 am	76.	Artifacts, autopsy lab essentials, embalming				Forensic Medicine	45 Mins
08:45 – 09:30am	77.	Treponema pallidum (Pathogenesis, Epidemiology, Preventions and Control, Treatment)				Pathology	45 Mins
09:30 – 10:15am	78.	Syphillus and Candidiasis				Surgery	45 Mins
Hospital Work 10:30 – 12:00noon							
12:10-02:00p.m.		PRACTICAL		Batch C: Biochemical tests (2) Batch A: Group Discussion Batch B: Stas OHO, s process (Extraction technique)	Class divisible in three batches	Respective Departments	
Day 25 11-04-2025 (Friday)							
8.00-8.45 am	79.	Physiology of cough reflex				Physiology	45 Mins
08:45 – 09:30am	80.	Anti tussives, mucolytics and expectorants				Pharmacology	45 Mins
09:30 – 10:15am	81.	Leptospira Rickettsia sp. (Pathogenesis, Epidemiology, Prevention and Control, Treatment)				Pathology	45 Mins
10:30-12:00p.m.		PRACTICAL		Batch A: Biochemical tests (2) Batch B: Group Discussion Batch C: Stas OHO, s process (Extraction technique)	Class divisible in three batches	Respective Departments	
Day 26 12-04-2025 (Saturday)							
8.00-8.45 am	82.					Orthopaedics	45 min

8.45 am-9.30 am	83.	Measles and Mumps virus (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30 am-10.15 am	84.	Anti viral drugs (1)				Pharmacology	45 min
10.15 am-11.00 am						Pharmacology	45 min
11.00 am-11.45 am						Forensic Medicine	45 min
11.45 am-12.30pm						Orthopedics	45 min
12.45—2.30 pm		Practical		Batch B: Collection and dispatch of samples Batch C : group discussion Batch A : Thin layer chromatography	Class divisible in three batches	Respective departments	
Day 27 14-04-2025 (Monday)							
8.00-8.45 am	85.	Hepatitis A,B,C D E (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	86.	Exhumation procedure, law relating to autopsy and exhumation				Forensic medicine	45 mins
9.30-10.15 am	87.	Acute Hepatitis : A and E infection				Medicine	45 min
Hospital Work 10:30 – 12:00							
12.10—02.00 pm		Practical		Batch C: Tutorial Batch A : group discussion Batch B : Plant poisons	Class divisible in three batches	Respective departments	

Day 28		15-04-2025 (Tuesday)					
8.00-8.45 am	88.	Rubella Virus (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	89.	Death certification according to WHO				Forensic medicine	45 mins
9.30-10.15 am	90.	Herpes virus (Simplex and Zoster) (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
Hospital Work 10:30 – 12:00							
12:10-02:00p.m.		PRACTICAL		Batch A: Biochemical tests (2) Batch B: Group Discussion Batch C: Stas OHO,s process (Extraction technique)	Class divisible in three batches	Respective Departments	
DAY 29 16-04-2025 (Wednesday)							
8.00-8.45 am	94.	Influenza, Para influenza (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	95.	Hepatitis A,B and C				Surgery	45 min
9.30-10.15 am	96.	Organ transplantation and molecular death				Forensic Medicine	45 mins
Hospital work 10.30-12.00							
12.10—02.00 pm		PRACTICAL		Batch B: tutorial Batch C : group discussion Batch A : Plant poisons	Class divisible in three batches	Respective departments	

DAY 30				17-04-2025 (Thursday)			
8.00-8.45 am	97.	Irritants (Metallic Poisons)				Forensic Medicine	45 mins
8.45-9.30 am	98.	Chronic hepatitis : Hepatitis B and C infection				Medicine	45 min
9.30-10.15 am	99.	CMV and EBV (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
Hospital work				10.30-12.00			
12.00-02:00		PRACTICAL		Batch C: tutorial Batch A: group discussion Batch B: Plant poisons	Class divisible in three batches	Respective departments	
DAY 31				18-04-2025 (Friday)			
8.00-8.45 am	100.	AIDS				Surgery	45 min
8.45-9.30 am	101.	HIV (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15 am	102.	HIV				Medicine	45 mins
10.30—12.00 pm		PRACTICAL		Batch A: tutorial Batch B: group discussion Batch C: Plant poisons	Class divisible in three batches	Respective departments	
DAY 32				19-04-2025 (Saturday)			
8.00-8.45 am	103.	Viral Conjunctivitis : Adenoviral, Molluscum contagiosum conjunctivitis.				Eye	45 min
8.45-9.30 am	104.					Orthopedic	45 mins

9.30-10.15 am	105.	Rabies Virus (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
10.15-11.00 am						Forensic Medicine	45 mins
11.00-11.45 am						ENT	45 mins
11.45-12.30pm						Pathology	45 mins
12.45-2.30pm		Practical		Batch B : Antibigram Batch C : group discussion Batch A :Examination of blood i) Physical examination ii) spectroscopic examination iii) examination under U/v lamp	Class divisible in three batches	Respective departments	
DAY 33 21-04-2025 (Monday)							
8.00-8.45 am	106.	Cryptococcus neoformans, Histoplasma sp (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	107.	Definition, types, medicolegal significance of personal identity				Forensic Medicine	45 mins
9.30-10.15 am	108.	Antifugal drugs (1)				Medicine	45 Mins
Hospital work 10.30-12.00							
12.10—02.00 pm		Practical		Batch C: Tutorial Batch A : group discussion Batch B : Plant poisons	Class divisible in three batches	Respective departments	
DAY 34 22-04-2025 (Tuesday)							
8.00-8.45 am	109.	Candida albicans and Aspergillus sp (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min

8.45-9.30 am	110.	Anti-fungal drugs (2)				Surgery	45 mins
9.30-10.15 am	111.	Parameters/ methods of establishing identity				Forensic medicine	45 mins
Hospital work 10.30-12.00							
12:10-02:00p.m.		Practical		Batch A: Tutorial Batch B: Group discussion Batch C: Plant poisons	Class divisible In three batches	Respective department	
DAY 35 23-04-2025 (Wednesday)							
8.00-8.45 am	115.	Tinea species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	116.	Nosocomial infection				Medicine	45 mins
9.30-10.15 am	117.	Anti malarial drugs (1)				Pharmacology	45 mins
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch B : Demonstration of malarial parasite Batch C : group discussion Batch A : Preliminary chemical examination of Blood	Class divisible in three batches	Respective departments	12.00—2.30
Day 36 24-04-2025 (Thursday)							
8.00-8.45 am	118.	Plasmodium sp (Pathogenesis, Epidemiology , prevention and control)				Pathology	
8.45-9.30 am	119.	Malaria				Medicine	45 Mins
9.30-10.15 am	120.	Anti malarials (2)				Pharmacology	

Hospital work 10.30-12.00							
12.10 - 02.00		Practical		Batch C : Demonstration of malarial parasite Batch A : group discussion Batch B : Preliminary chemical examination of Blood	Class divisible in three batches	Respective departments	10.15 - 12.00
DAY 37 25-04-2025 (Friday)							
8.00-8.45 am	121.	Prophylaxis of surgical infections: Use of antibiotics (according to type of surgery)				Surgery	45 mins
8.45-9.30 am	122.	Giardia lamblia, Entamoeba histolytica (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	123.	Anti amboeic drugs (1)				Pharmacology	45 min
10.30— 12.00pm		Practical		Batch A : Worm specimens Ascaris, Tenia, Hydatid cyst Batch B : group discussion Batch C : Confirmatory chemical examination of Blood	Class divisible in three batches	Respective departments	
DAY 38 26-04-2025 (Saturday)							
8.00-8.45 am	124.	Jdentification of living/ dead (Race and age determination)				Forensic Medicine	45min
8.45-9.30 am	125.	Acute Laryngitis				ENT	45 mins
9.30-10.15 am	126.	Post operative infections : Enophthalmitis, Panophthalmitis				Eye	45 mins
10.15- 11.00 am						ENT	45 mins
11.00- 11.45am						Pharmacology	45 mins

11.45-12.30pm						Pharmacology	45 mins
12.45—02.30		Practical		Batch B : Demonstration of malarial parasite Batch C : group discussion Batch A: Preliminary chemical examination of Blood	Class divisible in three batches	Respective departments	
DAY 39 28-04-2025 (Monday)							
8.00-8.45 am	127.	Anti Amoebics (2)				Pharmacology	45 mins
8.45-9.30 am	128.	Leishmania sp (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	129.	Metallic poisons (Mercury, copper, Thallium)				Forensic medicine	45 min
Hospital work 10.30-12.00							
12.10—02.00 pm		Practical		Batch C: Tutorial Batch A: group discussion Batch B: Plant poisons	Class divisible in three batches	Respective departments	
DAY 40 29-04-2025 (Tuesday)							
8.00-8.45 am	130.	Toxoplasmosis gonadi and pneumocystis Carinii (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	131.	Toxoplasmosis				Medicine	45 min
9.30-10.15 am	132.	Gender determination of living/ dead				Forensic medicine	45 mins

Hospital work 10.30-12.00							
12:10-02:00		Practical		Batch A : Worm specimens Ascaris, Tenia, Hydatid cyst Batch B : group discussion Batch C : Confirmatory chemical examination of Blood	Class divisible in three batches	Respective departments	
Day 41 30-04-2025 (Wednesday)							
8.00-8.45 am	136.	Prophylaxis of surgical infection : pre operative preperation				Surgery	45 mins
8.45-9.30 am	137.	Forensic Odontology				Forensic Medicine	45 mins
9.30-10.15 am	138.	Cryptosporidium and trichomonas vaginalis (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
Hospital work 10.30-12.00							
12.10— 02.30		PRACTICAL		Batch B : Worm specimens Ascaris, Tenia, Hydatid cyst Batch C : group discussion Batch A : Confirmatory chemical examination of Blood	Class divisible in three batches	Respective departments	
DAY 42 02-05-2025 (Friday)							
8.00-8.45 am	139.	Anti Helmintics (2)				Pharmacology	45 min
8.45-9.30 am	140.	Prophylaxis of surgical infection : Scrubbing techniques				Surgery	45 min
9.30-10.15 am	141.	Ascaris Lumbricoides (Pathogenesis, Epidemiology, prevention and control)				Pathology	45 min

10.30— 12.00		PRACTICAL		Batch A: tutorial Batch B: group discussion Batch C: Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	
DAY 43 03-05-2025 (Saturday)							
8.00-8.45 am	142.	Non metallic poisonous irritants (Phosphorus) Mechanical irritants				Forensic Medicine	45 min
8.45-9.30 am	143.	Acchylostoma duodenale (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	144					Orthopedics	45 mins
10.15- 11:00 am						Pathology	45 mins
11.00- 11.45 am						Surgery	45 mins
11.45- 12.30 Pm						Pharmacology	45 mins
12.45- 02.30pm		PRACTICAL		Batch B : Tutorial Batch C: group discussion Batch A: Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	
DAY 44 05-05-2025 (Monday)							
8.00-8.45 am	145.					Forensic Medicine	45 mins
8.45-9.30 am	146.					Forensic Medicine	45 min
9.30-10.15 am	147.	Entrobis Vermicularis and Trichris Trichuria (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins

Hospital work 10.30-12.00							
12.10-02.00Noon		PRACTICAL		Batch C : tutorial Batch A : group discussion Batch B : Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	
DAY 45 06-05-2025 (Tuesday)							
8.00-8.45 am	148	Strongyloides Stercoralis and Hymenolepis Nana (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	149.	Chronic Laryngitis				ENT	
9.30-10.15 am	150.	Infections of cornea : Bacterial keratitis, fungal keratitis, Herpes simplex keratitis, herpes Zoster, interstitial keratits, Protozoan keratitis				Eye	45 mins
Hospital work 10.30-12.00							
12:10-02:00Noon		PRACTICAL		Batch A : stool examination Batch B : group discussion Batch C : Examination of hair/Fibre	Class divisible in three batches	Respective departments	
DAY 46 07-05-2025 (Wednesday)							
8.00-8.45 am	151.	Finger prints and other congenital and acquired marks of identification				Forensic medicine	45 mins
8.45-9.30 am	152.	Filarial species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	153.					Orthopaedic surgery	45 mins

Hospital work				10.30-12.00			
12.10— 02.00pm		Practical		Batch B : stool examination Batch C: group discussion Batch A: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 47				08-05-2025 (Thursday)			
8.00-8.45 am	157.	Echinococcus Species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	158.	Establishment of identity from skeleton and skeletal remains				Forensic medicine	45 min
9.30-10.15 am	159.	Pharmacological agents used for Treatment of bronchial asthma				Pharmacology	45 mins
Hospital work				10.30-12.00			
12.10— 02.00		Practical		Batch C : stool examination Batch A: group discussion Batch B: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 48				09-05-2025 (Friday)			
8.00-8.45 am	160.	Taenia solium and Taenia saginata (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	161.	Career counseling				DME	45 mins
9.30-10.15 am	162.	Bronchdilators				Pharmacology	45 mins
10.30— 12.00		Practical		Batch A : stool examination Batch B : group discussion Batch C: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	

DAY 49							
10-05-2025 (Saturday)							
8.00-8.45 am	157.	Uveitis : Toxoplasmosis, Toxocariasis, Uveitis in HIV, Fungal uveitis, Bacterial uveitis				Eye	45 mins
8.45-9.30 am	158.	Schistosoma Species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	159.					Orthopedics	45 min
10:15-11:00am						Pharmacology	45 min
11:00-11:45am						Forensic Medicine	45 min
11:45-12:30pm						Orthopedics	45 min
12.45—02.30		Practical		Batch B : Tutorial Batch C: group discussion Batch A : Semen/ Seminal stain analysis	Class divisible in three batches	Respective departments	

DAY 50 12-05-2025 (Monday)							
8.00-8.45 am		Acute Sinusitis				ENT	45 min
8.45-9.30 am						Forensic Medicine	45 min
9.30-10.15 am		Clinical Aspects Of Ebola And Dengue Virus				Medicine	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch C : stool examination Batch A: group discussion Batch B: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 51 13-05-2025 (Tuesday)							
8.00-8.45 am						Forensic Medicine	45 min
8.45-9.30 am						Pharmacology	45 min
9.30-10.15 am						Orthopedics	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch A : stool examination Batch B: group discussion Batch C: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 52 14-05-2025 (Wednesday)							
8.00-8.45 am						Forensic Medicine	45 min
8.45-9.30 am						Pathology	45 min
9.30-10.15 am						EYE	45 min
Hospital work 10.30-12.00							
12.10-02.00pm		PRACTICAL		Batch B : Tutorial Batch C: group discussion Batch A: Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	

DAY 53 15-05-2025 (Thursday)							
8.00-8.45 am						Surgery	
8.45-9.30 am						Forensic Medicine	
9.30-10.15 am						Pharmacology	
Hospital work				10.30-12.00			
12.45—02.30		Practical		Batch C : Tutorial Batch A: group discussion Batch B : Semen/ Seminal stain analysis	Class divisible in three batches	Respective departments	
DAY 54				16-05-2025 (Friday)			
SELF-STUDY							
DAY 55				17-05-2025 (Saturday)			
		Pathology Assessment (Special Bacteriology) (09:00 to 10:00am)					
Hospital work				10.30-12.00			
DAY 56				19-05-2025 (Monday)			
24-07-2024		Forensic Assessment (09:00 to 10:00am)					
Hospital work				10.30-12.00			
DAY 57				20-05-2025 (Tuesday)			
SELF-STUDY							
Hospital work				10.30-12.00			
DAY 58				21-05-2025 (Wednesday)			
		Pharmacology Assessment (09:00 to 10:00am)					
Hospital work				10.30-12.00			

All lectures and assessment will be conducted in Forensic Lecture Theatre.

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Class Incharge 3rd Year MBSS,
APWMO,
Department of Pathology,
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PROF. DR. FAIZA BASHIR,
Chairperson,
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MODULE

SPECIAL MICROBIOLOGY

DURATION **58 DAYS (06th March, 2025 to 21st May, 2025)**

CONTACT HOURS Lectures 168 = 126 hours + Practicals = 48 Hours + Hospital stay = 120 Hours

CREDIT HOURS 11.9

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES:

This integrated module of special microbiology is proposed for 3rd year M.B;B.S. It will introduce the class with microorganisms, the various diseases produced by them and their clinical presentations. It is intended to extend knowledge, understanding and practical skills in the field of microbiology.

By the end of the module the students should have acquired a basic theoretical and practical knowledge of:

Antimicrobial agents and their use,

Clinical microbiology

Parasitology and mycology

Medical, surgical and allied (Eye, ENT, Orthopaedic surgery) related infections and their clinical presentation

A core knowledge of forensic medicine and toxicology will also be included in this module.

The course is intended to cover the capabilities of:

Knowledge (Of microbes and antimicrobial agents)

Technical expertise (Handling of samples, examination of urine and stool specimens, interpretation of antibiogram and various biochemical tests, performing autopsies etc)

Critical analysis and problem solving) (small group discussions, tutorials)

Communication (working in clinics, studying clinical cases)

TIME			PLAC E	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURAT ION
DAY 1 06-03-2025 (Thursday)							
8.00-8.45am	1.	Overview of Bacteraemia and Septicaemia				Surgery	
8.45-9.30am	2.	Staphylococcus aureus (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15am	3.	Principles of antimicrobial drug action				Pharmacology	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch C: Gram staining Batch A : Small group discussion Batch B: Medico legal autopsies	Class divisible in three batches	Respective departments	
DAY 2 07-03-2025 (Friday)							
8.00-8.45am	4.	Streptococcus pneumonia, Beta hemolytic Streptococcus type a and b (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30am	5.	Pneumonia				Medicine	45 mins
9.30-10.15am	6.	Objectives, rules and techniques of autopsy				Forensic Medicine	45 mins
10.30—12.00pm		Practical		Batch A: Gram staining Batch B : Small group discussion Batch C : Medico legal autopsies	Class divisible in three batches	Respective departments	
DAY 3 08-03-2025 (Saturday)							
8.00-8.45am	7.	Penicillines and cephalosporins (1)				Pharmacology	45 mins

8.45-9.30am	8.	Beta Haemolytic streptococci (Cont) ,Diphtheria Sp. (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15am	9.	Infective endocarditis				Medicine	45 mins
10.15-11.00am						Orthopedics	
11.00-11.45am						ENT	
11.45-12.30am						EYE	
12.45—2.30pm		PRACTICAL		Batch B: Gram staining Batch C: Small group discussion Batch A: Medico legal autopsies	Class divisible in three batches	Respective departments	
DAY 4 10-03-2025 (Monday)							
8.00-8.45am	10.	Penicillines and cephalosporins (2)				Pharmacology	45 min
8.45-9.30am	11.	Bacillus anthracis, Bordetella sp. (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15am	12.	Biological weapons (Anthrax, tetanus etc)				Forensic Medicine	45 mins
Hospital work 10.30-12.00							
12.10—2.00 pm		PRACTICAL		Batch C : Oxidase and catalase test Batch A : Small group discussion Batch B : Examination of stomach contents	Class divisible in three batches	Respective departments	

DAY 5 11-03-2025 (Tuesday)							
8.00-8.45am	13.	Preperation of autopsy protocol, types of autopsy				Forensic Medicine	45 min
8.45-9.30am	14.	Actinomyces israelli, Nocardia asteroides (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15am	15	Actinomycosis ,Anthrax and Gonorrhea				surgery	45 mins
Hospital work 10.30-12.00							
12.10-02:00 pm		PRACTICAL		Batch A: Oxidase and catalase test. Batch B: Small group discussion Batch C : Examination of stomach contents	Class divisible in three batches	Respective departments	
DAY 6 12-03-2025 (Wednesday)							
8.00-8.45am	16.	Penicillines and cephalosporins (3)				Pharmacology	45 min
8.45-9.30 am	17.	Clostridium difficile, Clostridium botulinum (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15am	18.	Food poisoning including botulism				Forensic Medicine	45 mins
Hospital work 10.30-12.00							
12.10—2.00 pm		PRACTICAL		Batch B: Oxidase and catalase test. Batch C: Small group discussion Batch A : Examination of stomach contents	Class divisible in three batches	Respective departments	

Day 7 13-03-2025 (Thursday)							
8.00-8.45am	22.	Clostridium perfringens (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
8.45-9.30am	23.	Gas gangrene and synergistic gangrene				Surgery	45 mins
9.30-10.15am	24.	Sulphonamides and trimethoprim				Pharmacology	45 mins
Hospital work 10.30-12.00							
12.10 — 02.00pm		PRACTICAL		Batch C : Various culture media Batch A : Small group discussion Batch B: Preparation of autopsy report (certification)	Class divisible in three batches	Respective departments	
DAY 8 14-03-2025 (Friday)							
8.00-8.45 am	25.	Clostridium tetani (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45mins
8.45-9.30 am	26.	Tetanus				Medicine	45 mins
9.30-10.15 am	27.	Surgical aspects of tetanus				Surgery	45 Mins
10.30-12.00pm		Practical		Batch A : Various culture media Batch B: Small group discussion Batch C : Preparation of autopsy report (certification)	Class divisible in three batches	Respective departments	
DAY 9 15-03-2025 (Saturday)							
8.00-8.45 am	28.	Neisseria meningitidis, Neisseria gonorrhoeae (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins

8.45-9.30 am	29.	Meningitis				Medicine	45 mins
9.30-10.15 am	30.	Macrolides				Pharmacology	45 mins
10.15-11.00 am						Forensic Medicine	45 mins
11.00-11.45 am						ENT	45 mins
11.45-12.30pm						EYE	45 mins
12.45—2.30pm		Practical		Batch B : Various culture media Batch C : Small group discussion Batch A : Preparation of autopsy report (certification)	Class divisible in three batches	Respective departments	
DAY 10 17-03-2025 (Monday)							
8.00-8.45 am	31.	Tetracyclins				Pharmacology	45 min
8.45-9.30 am	32.	Gardenella vaginalis, Hemophilus influenzae (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	33.	Tuberculosis				Medicine	45mins

Hospital work 10.30-12.00							
12.10-02.00 pm		Practical		Batch C : ZN staining Batch A: Small group discussion Batch B: Identification of volatile poisons by steam distillation	Class divisible in three batches	Respective departments	
Day 11 18-03-2025 (Tuesday)							
8.00-8.45am	34.	Surgery in tropics : tuberculosis				Surgery	45 mins
8.45-9.30 am	35.	Anti Tuberculous Drugs				Pharmacology	45 min
9.30-10.15 am	36.	Mycobacterium tuberculosis (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	
Hospital work 10.30-12.00							
12.10-02.00 pm		Practical		Batch A : ZN staining Batch B : Small group discussion Batch C : Identification of volatile poisons by steam distillation			
DAY 12 19-03-2025 (Wednesday)							
8.00-8.45 am	37.	Mycobacterium leprae and atypical mycobacterium (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	38.	Tuberculosis and Leprosy				Dermatology	45 mins
9.30-10.15 am	39.	Anti leprosy drugs				Pharmacology	45 mins

Hospital work 10.30-12.00							
12.10— 02.00 pm		Practical		Batch B : ZN staining Batch C : Small group discussion Batch A : Identification of volatile poisons by steam distillation	Class divisible in three batches	Respective departments	
DAY 13 20-03-2025 (Thursday)							
8.00-8.45 am	43.	Definition and diagnosis of death				Forensic medicine	45 mins
8.45-9.30 am	44.	E. Coli		students should be able to know the characteristics of the micro-organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15 am	45.	Urinary antiseptics				Pharmacology	45 min
Hospital work 10.30-12.00							
12.10-02.00 pm		Practical		Batch C: Urine examination Batch A: Small group Discussion Batch B: Collection , preservation and labeling of specimens for lab examination	Class divisible in three batches	Respective departments	
DAY 14 21-03-2025 (Friday)							
8.00-8.45 am	46.	Klebsiella, Proteus (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	47.	Urinary tract infections				Urology	45 min
9.30-10.15 am	48.	Corrosives (Mineral acids)				Forensic medicine	45 min
10.30-12.00 pm		Practical		Batch B: Urine examination Batch C: Small group Discussion Batch A: Collection , preservation and labeling of specimens for lab examination	Class divisible in three batches	Respective departments	

Day 15 22-03-2025 (Saturday)							
8.00-8.45 am	49.	Salmonella (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro-organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
8.45-9.30 am	50.	Enteric Fever				Medicine	45 mins
9.30-10.15 am	51.	Chloramphenicol				Pharmacology	45 min
10.15-11.00 am						Surgery	45 min
11.00-11.45 am						Medicine	45 min
11.45-12.30pm						EYE	45 min
12.45-02.30 pm		PRACTICAL		Batch B: Urine examination Batch C: Small group Discussion Batch A: Collection , preservation and labeling of specimens for lab examination	Class divisible in three batches	Respective departments	
Day 16 24-03-2025 (Monday)							
8.00-8.45 am	52.	Aminoglycosides				Pharmacology	45 min
8.45-9.30 am	53.	Collection, preservation , dispatch of viscera and other specimens to forensic science laboratory				Forensic medicine	45 mins
9.30-10.15 am	54.	Pyrexia of unknown origin				Medicine	45 mins
Hospital work 10:30-12:00							
12.10-02.00 pm		PRACTICAL		Batch C : Widal test Batch A: Small group Discussion Batch B: Identification of inorganic metallic poisons.	Class divisible in three batches	Respective departments	

Day 17				25-03-2025 (Tuesday)			
8.00-8.45 am	55.	Medicolegal aspects of sudden and unexplained death, suspended animation				Forensic Medicine	45 min
8.45-9.30 am	56.	Miscellaneous antibacterials (1)				Pharmacology	45 min
9.30-10.15 am	57.	Shigella and yersinia pestis (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
Hospital work				10:30-12:00			
12.10-02.00 pm		Practical		Batch A : Widal test Batch B: Small group Discussion Batch C: Identification of inorganic metallic poisons	Class divisible in three batches	Respective departments	
Day 18				26-03-2025 (Wednesday)			
8.00-8.45 am	58.					Pharmacology	45 min
8.45-9.30 am	59.	Miscellaneous antibacterials (2)				Pharmacology	45 min
9.30-10.15 am	60.					Orthopedics	45 min
Hospital work				10:30-12:00			
12.10-02.00 pm		Practical		Batch B : Widal test Batch C: Small group Discussion Batch A: Identification of inorganic metallic poisons	Class divisible in three batches	Respective departments	

Day 19 27-03-2025 (Thursday)							
8.00-8.45am	64.	Changes after death				Forensic medicine	45 mins
8.45-9.30 am	65.	Quinolones				Pharmacology	
9.30-10.15 am	66.	Vibrio cholera, Vibrio parahemolyticus(Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
Hospital work 10:30-12:00							
12.10-02.00pm		Practical		Batch C: Biochemical test (1) Batch A: group discussion Batch B: Storage of dead bodies, introduction to autopsy instruments.	Class divisible in three batches	Respective departments	
Day 20 28-03-2025 (Friday)							
8.00-8.45 am	67 .	Corrosives (organic acids, alkalis)				Forensic medicine	45 mins
8.45-9.30 am	68 .	Infective diarrhea				Medicine	45 min
9.30-10.15 am	69 .	Autopsy of fragmented remains, mutilated and decomposed bodies				Forensic Medicine	45 mins
10.30-12.00 pm		Practical		Batch A: Biochemical test (1) Batch B: group discussion Batch C: Storage of dead bodies, introduction to autopsy instruments.	Class divisible in three batches	Respective departments	
Day 21 29-03-2025 (Saturday)							
8.00-8.45 am	70 .	Prophylactic use of antimicrobial drugs				Pharmacology	45 mins
8.45-9.30 am	71 .	War gasess				Forensic Medicine	
9.30-10.15 am	72 .					Forensic Medicine	45 min

10.15-11.00 am		Campylobacter jejuni, Helicobacter pylori (Pathogenesis, Epidemiology, Prevention and Control)		Students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
11.00-11.45 am						Pharmacology	45 min
11.45-12:30 pm						ENT	45 min
12.45—02.30 pm		Practical		Batch B : Biochemical test (1) Batch C: group discussion Batch A: Storage of dead bodies, introduction to autopsy instruments.	Class divisible in three batches	Respective departments	
Day 22 31-03-2025(Monday)							
8.00-8.45 am		Chest Infection				Surgery	45 min
8.45-9.30 am		Cystic Fibrosis /Pneumonia				Medicine	45 min
9.30-10.15 am						Pathology	45 min
Hospital work 10:30-12:00							
12:10-02:00		PRACTICAL		Batch C: Pathology Batch A : Pharmacology Batch B : Forensic Medicine	Class divisible in three batches	Respective departments	
Day 23 09-04-2025 (Wednesday)							
8.00-8.45 am	73	Legionella, Mycoplasma pneumonia. (Pathogenesis, Epidemiology, Prevention and Control)		Students should be able to know the characteristics of the microorganisms, disease caused by them their investigations and treatment		Pathology	45 Mins
08:45 – 09:30am	74	Abscesses (Acute and chronic) and their management				Medicine	45 Mins
09:30 – 10:15am	75	Chlamydia (Pathogenesis, Epidemiology, Prevention and Control, Treatment)		Students should be able to know the characteristics of the microorganisms, disease caused by them their investigations and treatment		Pathology	45 Mins

Hospital work 10:30-12:00							
12:10-02:00p.m		RESPECTIVE PRACTICAL		Batch B: Biochemical tests (2) Batch C: Group discussion Batch A: Stas OHO,s process (Extraction technique)	Class divisible in three batches	Respective Departments	
Day 24				10-04-2025 (Thursday)			
8.00-8.45 am	76.	Artifacts, autopsy lab essentials, embalming				Forensic Medicine	45 Mins
08:45 – 09:30am	77.	Treponema pallidum (Pathogenesis, Epidemiology, Preventions and Control, Treatment)				Pathology	45 Mins
09:30 – 10:15am	78.	Syphillus and Candidiasis				Surgery	45 Mins
Hospital Work 10:30 – 12:00noon							
12:10-02:00p.m.		PRACTICAL		Batch C: Biochemical tests (2) Batch A: Group Discussion Batch B: Stas OHO, s process (Extraction technique)	Class divisible in three batches	Respective Departments	
Day 25				11-04-2025 (Friday)			
8.00-8.45 am	79.	Physiology of cough reflex				Physiology	45 Mins
08:45 – 09:30am	80.	Anti tussives, mucolytics and expectorants				Pharmacology	45 Mins
09:30 – 10:15am	81.	Leptospira Rickettsia sp. (Pathogenesis, Epidemiology, Prevention and Control, Treatment)				Pathology	45 Mins
10:30-12:00p.m.		PRACTICAL		Batch A: Biochemical tests (2) Batch B: Group Discussion Batch C: Stas OHO, s process (Extraction technique)	Class divisible in three batches	Respective Departments	
Day 26				12-04-2025 (Saturday)			
8.00-8.45 am	82.					Orthopaedics	45 min

8.45 am-9.30 am	83.	Measles and Mumps virus (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30 am-10.15 am	84.	Anti viral drugs (1)				Pharmacology	45 min
10.15 am-11.00 am						Pharmacology	45 min
11.00 am-11.45 am						Forensic Medicine	45 min
11.45 am-12.30pm						Orthopedics	45 min
12.45—2.30 pm		Practical		Batch B: Collection and dispatch of samples Batch C : group discussion Batch A : Thin layer chromatography	Class divisible in three batches	Respective departments	
Day 27 14-04-2025 (Monday)							
8.00-8.45 am	85.	Hepatitis A,B,C D E (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	86.	Exhumation procedure, law relating to autopsy and exhumation				Forensic medicine	45 mins
9.30-10.15 am	87.	Acute Hepatitis : A and E infection				Medicine	45 min
Hospital Work 10:30 – 12:00							
12.10—02.00 pm		Practical		Batch C: Tutorial Batch A : group discussion Batch B : Plant poisons	Class divisible in three batches	Respective departments	

Day 28		15-04-2025 (Tuesday)					
8.00-8.45 am	88.	Rubella Virus (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	89.	Death certification according to WHO				Forensic medicine	45 mins
9.30-10.15 am	90.	Herpes virus (Simplex and Zoster) (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
Hospital Work 10:30 – 12:00							
12:10-02:00p.m.		PRACTICAL		Batch A: Biochemical tests (2) Batch B: Group Discussion Batch C: Stas OHO,s process (Extraction technique)	Class divisible in three batches	Respective Departments	
DAY 29 16-04-2025 (Wednesday)							
8.00-8.45 am	94.	Influenza, Para influenza (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	95.	Hepatitis A,B and C				Surgery	45 min
9.30-10.15 am	96.	Organ transplantation and molecular death				Forensic Medicine	45 mins
Hospital work 10.30-12.00							
12.10—02.00 pm		PRACTICAL		Batch B: tutorial Batch C : group discussion Batch A : Plant poisons	Class divisible in three batches	Respective departments	

DAY 30				17-04-2025 (Thursday)			
8.00-8.45 am	97.	Irritants (Metallic Poisons)				Forensic Medicine	45 mins
8.45-9.30 am	98.	Chronic hepatitis : Hepatitis B and C infection				Medicine	45 min
9.30-10.15 am	99.	CMV and EBV (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
Hospital work				10.30-12.00			
12.00-02:00		PRACTICAL		Batch C: tutorial Batch A: group discussion Batch B: Plant poisons	Class divisible in three batches	Respective departments	
DAY 31				18-04-2025 (Friday)			
8.00-8.45 am	100.	AIDS				Surgery	45 min
8.45-9.30 am	101.	HIV (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15 am	102.	HIV				Medicine	45 mins
10.30—12.00 pm		PRACTICAL		Batch A: tutorial Batch B: group discussion Batch C: Plant poisons	Class divisible in three batches	Respective departments	
DAY 32				19-04-2025 (Saturday)			
8.00-8.45 am	103.	Viral Conjunctivitis : Adenoviral, Molluscum contagiosum conjunctivitis.				Eye	45 min
8.45-9.30 am	104.					Orthopedic	45 mins

9.30-10.15 am	105.	Rabies Virus (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
10.15-11.00 am						Forensic Medicine	45 mins
11.00-11.45 am						ENT	45 mins
11.45-12.30pm						Pathology	45 mins
12.45-2.30pm		Practical		Batch B : Antibigram Batch C : group discussion Batch A :Examination of blood i) Physical examination ii) spectroscopic examination iii) examination under U/v lamp	Class divisible in three batches	Respective departments	
DAY 33 21-04-2025 (Monday)							
8.00-8.45 am	106.	Cryptococcus neoformans, Histoplasma sp (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	107.	Definition, types, medicolegal significance of personal identity				Forensic Medicine	45 mins
9.30-10.15 am	108.	Antifugal drugs (1)				Medicine	45 Mins
Hospital work 10.30-12.00							
12.10—02.00 pm		Practical		Batch C: Tutorial Batch A : group discussion Batch B : Plant poisons	Class divisible in three batches	Respective departments	
DAY 34 22-04-2025 (Tuesday)							
8.00-8.45 am	109.	Candida albicans and Aspergillus sp (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min

8.45-9.30 am	110.	Anti-fungal drugs (2)				Surgery	45 mins
9.30-10.15 am	111.	Parameters/ methods of establishing identity				Forensic medicine	45 mins
Hospital work 10.30-12.00							
12:10-02:00p.m.		Practical		Batch A: Tutorial Batch B: Group discussion Batch C: Plant poisons	Class divisible In three batches	Respective department	
DAY 35 23-04-2025 (Wednesday)							
8.00-8.45 am	115.	Tinea species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	116.	Nosocomial infection				Medicine	45 mins
9.30-10.15 am	117.	Anti malarial drugs (1)				Pharmacology	45 mins
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch B : Demonstration of malarial parasite Batch C : group discussion Batch A : Preliminary chemical examination of Blood	Class divisible in three batches	Respective departments	12.00—2.30
Day 36 24-04-2025 (Thursday)							
8.00-8.45 am	118.	Plasmodium sp (Pathogenesis, Epidemiology , prevention and control)				Pathology	
8.45-9.30 am	119.	Malaria				Medicine	45 Mins
9.30-10.15 am	120.	Anti malarials (2)				Pharmacology	

Hospital work 10.30-12.00							
12.10 - 02.00		Practical		Batch C : Demonstration of malarial parasite Batch A : group discussion Batch B : Preliminary chemical examination of Blood	Class divisible in three batches	Respective departments	10.15 - 12.00
DAY 37 25-04-2025 (Friday)							
8.00-8.45 am	121.	Prophylaxis of surgical infections: Use of antibiotics (according to type of surgery)				Surgery	45 mins
8.45-9.30 am	122.	Giardia lamblia, Entamoeba histolytica (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	123.	Anti amboeic drugs (1)				Pharmacology	45 min
10.30— 12.00pm		Practical		Batch A : Worm specimens Ascaris, Tenia, Hydatid cyst Batch B : group discussion Batch C : Confirmatory chemical examination of Blood	Class divisible in three batches	Respective departments	
DAY 38 26-04-2025 (Saturday)							
8.00-8.45 am	124.	Jdentification of living/ dead (Race and age determination)				Forensic Medicine	45min
8.45-9.30 am	125.	Acute Laryngitis				ENT	45 mins
9.30-10.15 am	126.	Post operative infections : Enophthalmitis, Panophthalmitis				Eye	45 mins
10.15- 11.00 am						ENT	45 mins
11.00- 11.45am						Pharmacology	45 mins

11.45-12.30pm						Pharmacology	45 mins
12.45—02.30		Practical		Batch B : Demonstration of malarial parasite Batch C : group discussion Batch A: Preliminary chemical examination of Blood	Class divisible in three batches	Respective departments	
DAY 39 28-04-2025 (Monday)							
8.00-8.45 am	127.	Anti Amoebics (2)				Pharmacology	45 mins
8.45-9.30 am	128.	Leishmania sp (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	129.	Metallic poisons (Mercury, copper, Thallium)				Forensic medicine	45 min
Hospital work 10.30-12.00							
12.10—02.00 pm		Practical		Batch C: Tutorial Batch A: group discussion Batch B: Plant poisons	Class divisible in three batches	Respective departments	
DAY 40 29-04-2025 (Tuesday)							
8.00-8.45 am	130.	Toxoplasmosis gonadi and pneumocystis Carinii (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	131.	Toxoplasmosis				Medicine	45 min
9.30-10.15 am	132.	Gender determination of living/ dead				Forensic medicine	45 mins

Hospital work 10.30-12.00							
12:10-02:00		Practical		Batch A : Worm specimens Ascaris, Tenia, Hydatid cyst Batch B : group discussion Batch C : Confirmatory chemical examination of Blood	Class divisible in three batches	Respective departments	
Day 41 30-04-2025 (Wednesday)							
8.00-8.45 am	136.	Prophylaxis of surgical infection : pre operative preperation				Surgery	45 mins
8.45-9.30 am	137.	Forensic Odontology				Forensic Medicine	45 mins
9.30-10.15 am	138.	Cryptosporidium and trichomonas vaginalis (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
Hospital work 10.30-12.00							
12.10— 02.30		PRACTICAL		Batch B : Worm specimens Ascaris, Tenia, Hydatid cyst Batch C : group discussion Batch A : Confirmatory chemical examination of Blood	Class divisible in three batches	Respective departments	
DAY 42 02-05-2025 (Friday)							
8.00-8.45 am	139.	Anti Helmintics (2)				Pharmacology	45 min
8.45-9.30 am	140.	Prophylaxis of surgical infection : Scrubbing techniques				Surgery	45 min
9.30-10.15 am	141.	Ascaris Lumbricoides (Pathogenesis, Epidemiology, prevention and control)				Pathology	45 min

10.30— 12.00		PRACTICAL		Batch A: tutorial Batch B: group discussion Batch C: Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	
DAY 43 03-05-2025 (Saturday)							
8.00-8.45 am	142.	Non metallic poisonous irritants (Phosphorus) Mechanical irritants				Forensic Medicine	45 min
8.45-9.30 am	143.	Acchylostoma duodenale (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	144					Orthopedics	45 mins
10.15- 11:00 am						Pathology	45 mins
11.00- 11.45 am						Surgery	45 mins
11.45- 12.30 Pm						Pharmacology	45 mins
12.45- 02.30pm		PRACTICAL		Batch B : Tutorial Batch C: group discussion Batch A: Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	
DAY 44 05-05-2025 (Monday)							
8.00-8.45 am	145.					Forensic Medicine	45 mins
8.45-9.30 am	146.					Forensic Medicine	45 min
9.30-10.15 am	147.	Entrobis Vermicularis and Trichris Trichuria (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins

Hospital work 10.30-12.00							
12.10-02.00Noon		PRACTICAL		Batch C : tutorial Batch A : group discussion Batch B : Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	
DAY 45 06-05-2025 (Tuesday)							
8.00-8.45 am	148	Strongyloides Stercoralis and Hymenolepis Nana (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	149.	Chronic Laryngitis				ENT	
9.30-10.15 am	150.	Infections of cornea : Bacterial keratitis, fungal keratitis, Herpes simplex keratitis, herpes Zoster, interstitial keratits, Protozoan keratitis				Eye	45 mins
Hospital work 10.30-12.00							
12:10-02:00Noon		PRACTICAL		Batch A : stool examination Batch B : group discussion Batch C : Examination of hair/Fibre	Class divisible in three batches	Respective departments	
DAY 46 07-05-2025 (Wednesday)							
8.00-8.45 am	151.	Finger prints and other congenital and acquired marks of identification				Forensic medicine	45 mins
8.45-9.30 am	152.	Filarial species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	153.					Orthopaedic surgery	45 mins

Hospital work				10.30-12.00			
12.10— 02.00pm		Practical		Batch B : stool examination Batch C: group discussion Batch A: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 47				08-05-2025 (Thursday)			
8.00-8.45 am	157.	Echinococcus Species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	158.	Establishment of identity from skeleton and skeletal remains				Forensic medicine	45 min
9.30-10.15 am	159.	Pharmacological agents used for Treatment of bronchial asthma				Pharmacology	45 mins
Hospital work				10.30-12.00			
12.10— 02.00		Practical		Batch C : stool examination Batch A: group discussion Batch B: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 48				09-05-2025 (Friday)			
8.00-8.45 am	160.	Taenia solium and Taenia saginata (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	161.	Career counseling				DME	45 mins
9.30-10.15 am	162.	Bronchdilators				Pharmacology	45 mins
10.30— 12.00		Practical		Batch A : stool examination Batch B : group discussion Batch C: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	

DAY 49							
10-05-2025 (Saturday)							
8.00-8.45 am	157.	Uveitis : Toxoplasmosis, Toxocariasis, Uveitis in HIV, Fungal uveitis, Bacterial uveitis				Eye	45 mins
8.45-9.30 am	158.	Schistosoma Species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	159.					Orthopedics	45 min
10:15-11:00am						Pharmacology	45 min
11:00-11:45am						Forensic Medicine	45 min
11:45-12:30pm						Orthopedics	45 min
12.45—02.30		Practical		Batch B : Tutorial Batch C: group discussion Batch A : Semen/ Seminal stain analysis	Class divisible in three batches	Respective departments	

DAY 50 12-05-2025 (Monday)							
8.00-8.45 am		Acute Sinusitis				ENT	45 min
8.45-9.30 am						Forensic Medicine	45 min
9.30-10.15 am		Clinical Aspects Of Ebola And Dengue Virus				Medicine	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch C : stool examination Batch A: group discussion Batch B: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 51 13-05-2025 (Tuesday)							
8.00-8.45 am						Forensic Medicine	45 min
8.45-9.30 am						Pharmacology	45 min
9.30-10.15 am						Orthopedics	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch A : stool examination Batch B: group discussion Batch C: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 52 14-05-2025 (Wednesday)							
8.00-8.45 am						Forensic Medicine	45 min
8.45-9.30 am						Pathology	45 min
9.30-10.15 am						EYE	45 min
Hospital work 10.30-12.00							
12.10-02.00pm		PRACTICAL		Batch B : Tutorial Batch C: group discussion Batch A: Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	

DAY 53 15-05-2025 (Thursday)							
8.00-8.45 am						Surgery	
8.45-9.30 am						Forensic Medicine	
9.30-10.15 am						Pharmacology	
Hospital work				10.30-12.00			
12.45—02.30		Practical		Batch C : Tutorial Batch A: group discussion Batch B : Semen/ Seminal stain analysis	Class divisible in three batches	Respective departments	
DAY 54 16-05-2025 (Friday)							
SELF-STUDY							
DAY 55 17-05-2025 (Saturday)							
		Pathology Assessment (Special Bacteriology) (09:00 to 10:00am)					
Hospital work				10.30-12.00			
DAY 56 19-05-2025 (Monday)							
24-07-2024		Forensic Assessment (09:00 to 10:00am)					
Hospital work				10.30-12.00			
DAY 57 20-05-2025 (Tuesday)							
SELF-STUDY							
Hospital work				10.30-12.00			
DAY 58 21-05-2025 (Wednesday)							
		Pharmacology Assessment (09:00 to 10:00am)					
Hospital work				10.30-12.00			

All lectures and assessment will be conducted in Forensic Lecture Theatre.

DR. MARYAM ZAHID,
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APWMO,
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Chairperson,
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RESPIRATORY SYSTEM (Session 2024-25)

DURATION 17-03-2025 To 12-04-2025

CONTACT HOURS Lectures 49 =33.75 hours (2.1) + Practical's + Hospital stay = 31.45 Hours (0.6)

CREDIT HOURS 2.7

TEACHING METHODOLOGIES Lectures/ Practical's / small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of LUNGS & PLEURA. The interrelated clinical aspects of Medicine, Surgery, Eye, Ear, Nose and Throat and Gynecological problems will also be covered. By the end of the module, the students should be able to:

Discuss the Pathological and all clinical aspects of:

- Congenital Anomalies
- Tuberculosis
- Pulmonary infections
- Obstructive & Restrictive lung diseases
- Pulmonary edema
- Benign & malignant tumors of Lung, Pleura, Larynx
- Various related interventional techniques (Bronchoscopy, tracheostomy)
- Imaging

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
17-03-2025 Monday							
08:00 – 08:30	1.	Stridor				ENT	30 min
08:30 – 09:00	2.	Chicken pox and small pox		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease (Students will get full knowledge of disease determinants, distribution, dynamics, diagnostic investigations & effective preventive measures)		Community Medicine	30 min
09:00 – 09:30	3.	Topic Not Specified				Eye	30 min
Hospital work 10:10 a.m. to 1:00 p.m.							
18-03-2025 Tuesday							
08:00 – 08:30	4.	Topic Not Specified				Behavioral Sciences	30 min
08:30 – 09:00	5.	Congenital Anomalies Atelectasis, Pulmonary Edema				Pathology	30 min
09:00 – 09:30	6.	Management of respiratory failure				Anesthesia	30 min
HOSPITAL WORK 10:00 To 11:45						Community Lecture/Practical 11:45-1:00PM	
19-03-2025 Wednesday							
08:00 – 08:30	7.	Obstructive lung diseases		Clinical aspects		Chest Medicine	30 min
08:30 – 09:00	8.	Obstructive lung diseases		Pathogenesis, Morphology • Emphysema Chronic Bronchitis	Robbins & Cotrans	Pathology	30 min
09:00 – 09:30	9.	Measles and Mumps		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease		Community medicine	30 min
Hospital work 10:00 a.m. to 1:00 p.m.							
20-03-2025 Thursday							
08:00 – 08:30	10.	Physiological changes in Respiratory system in Pregnancy				Obstetrics & Gynecology	30 min
08:30 – 09:00	11.	Obstructive lung diseases		Pathogenesis& Morphology Asthma, Bronchiectasis	Robbins & Cotrans	Pathology	30 min

09:00 – 09:30	12.	Respiratory involvement in Systemic disorders		ILD, Vasculitis & Connective tissue disorders		Medicine	30 min
HOSPITAL WORK 10:00 To 11:45						Community Lecture /Practical 11:45-1:00PM	
21-03-2025 Friday							
08:00 – 08:30	13.	Respiratory Failure		Type I & II & Ventilator support		Medicine	30 min
08:30 – 09:00	14.	Pyogenic infections (Pneumococcal, H. influenzae, Meningococcal infections)		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease		Community medicine	30 min
09:00 – 09:30	15.	Perioperative management of Asthma & COPD & Post-operative pulmonary complications				Anesthesia	30 min
HOSPITAL WORK 10.10-12.00							
22-03-2025 Saturday							
08:00 – 08:30	16.	Empyema Thoracis				Surgery	30 min
08:30 – 09:00	17	Tracheostomy				ENT	30 min
09:00 – 09:30	18	Neurological causes of Type II Respiratory failure & Diagnostic approach				Neurology	30 min
Hospital work 10:10 a.m. to 1:00 p.m.							
24-03-2025 Monday							
08:00 – 08:30	19.	Bronchoscopy				ENT	30 min
08:30 – 09:00	20.	Restrictive Lung diseases		Pathogenesis & Morphology of Sarcoidosis Smoking related Interstitial diseases Feedback & Views of students in last 10mins about smoking	Robbins & Cotrans	Pathology	30 min
09:00 – 09:30	21.	Rubella & Influenza (Bird flu, SARS, MERS)		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease		Community medicine	30 min
Hospital work 10:10 a.m. to 1:00 p.m.							

25-03-2025 Tuesday							
08:00 – 08:30	22	Test				Pathology	30 min
08:30 – 09:00	23	Test				Pathology	30 min
09:00 – 09:30	24	Test				Pathology	30 min
Hospital Work 09:45a.m. To 11:00 a.m.							
PRACTICAL						Respective departments	11.45—1.00
26-03-2025 Wednesday							
08:00 – 08:30	25.	Pneumothorax		Presentation & management		Surgery	30 min
08:30 – 09:00	26.	Restrictive Lung diseases		Pathogenesis & Morphology of • Usual interstitial Pneumonia • Cryptogenic organizing Pneumonia • Pneumoconiosis • Silicosis • Asbestosis	Robbins & Cotrans	Pathology	30 min
09:00 – 09:30	27.	Anthrax & Plague/ Bioterrorism		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease		Community medicine	30 min
HOSPITAL WORK 09:45 To 01:00							
27-03-2025 Thursday							
08:00 – 08:30	28.	Pneumonias & lung abscess		Diagnosis & Management		Chest Medicine	30 min
08:30 – 09:00	29.	Pulmonary Infections		Pathogenesis & Morphology of • Chronic Pneumonia/Tuberculosis • Community acquired Pneumonia • Hospital acquired Pneumonia	Robbins & Cotrans	Pathology	30 min
09:00 – 09:30	30.	Tuberculosis		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease		Community Medicine	30 min

Hospital Work: 09: 45 to 11: 00 a.m.							
PRACTICAL						Respective departments	11.45—1.00
28-03-2025 Friday							
08:00 – 08:30	31.	Respiratory diseases in Pregnancy		- Asthma - Pulmonary edema		Obstetrics & Gynecology	30 min
08:30 – 09:00	32.	Pulmonary Infections		Pathogenesis & Morphology of - Aspiration Pneumonia - Pneumonia in Immunocompromised patients Lung abscess	Robbins & Cotrans	Pathology	30 min
09:00 – 09:30	33.					Eye	30 min
Hospital Work: 09: 45 to 1: 00 a.m.							
29-03-2025 Saturday							
08:00 – 08:30	34.	Tumors of lung		Symptoms & investigations		Chest Medicine	30 min
08:30 – 09:00	35.	Tumors of lung		Pathogenesis, Morphology of - Carcinomas - Neuroendocrine tumors - Metastatic tumors	Robbins & Cotrans	Pathology	30 min
09:00 – 09:30	36.	Mediastinal Masses		Clinical aspect & Management		Surgery	30 min
Hospital work: 09:45 a.m. to 1:00 p.m.							
Eid and Spring Holidays							
09-04-2025 Wednesday							
08:00 – 08:45	40.	Benign & malignant lesions of Larynx				ENT	45 min
08:45 – 09:30	41.	Diphtheria & Whooping cough		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease		Community medicine	45 min
09:30 – 10:15	42					Eye	45 min
Hospital work: 10.30-2.30							

10-04-2025 Thursday							
08:00 – 08:45	43.	Vascular Diseases of Lung		Pathogenesis, Morphology of • Pulmonary Embolism • Pulmonary Hypertension • Good Pasture syndrome • Wegener Granulomatosis	Robbins & Cotrans	Pathology	45 min
08:45 – 09:30	44.	HIV/AIDS		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease		Community Medicine	45 min
09:30 – 10:15	45.	Relationship between stress, personality, emotions, immunity & respiratory illnesses				Behavioral Sciences	45 min
Hospital work 10.30-11.45							
PRACTICAL						Respective departments	12.00—2.30
11-04-2025 Friday							
08:00 – 08:45	46.	Chest wall Masses		Symptoms & investigations		Surgery	45 min
08:45 – 09:30	47.	Laryngeal Paralysis				ENT	45 min
09:30 – 10:15	48.	Management of type II respiratory failure associated with neurological diseases				Neurology	45 min
HOSPITAL WORK 10.30-12.00							
12-04-2025 Saturday							
08:00 – 08:45	49.	Diaphragm Hernias				Surgery	45 min
08:45 – 09:30	50.	Pleura		Pathogenesis & Morphology of • Pleural effusion • Pneumothorax • Pleural tumors	Robbins & Cotrans	Pathology	45 min
09:30 – 10:15	51.	Lung Injury		•		Medicine	45 min
Hospital work: 10.30-2.30							

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MODULE

HAEMODYNAMICS

DURATION **DAYS (10-07-2025 to 24-07-2025)**

CONTACT HOURS Lectures 27 = 20.5 hours + Practicals = 20 Hours + Hospital stay = 9 hours

CREDIT HOURS 1.8

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

LEARNING OBJECTIVES : This module is developed for 3rd year M.B:B.S students . It is intended to impart them core knowledge about the pathologies involved in haemodynamic circulation along with different pharmacological agents used to combat the clinical conditions. Students will also be introduced to clinical conditions which are encountered due to disturbances in haemodynamics. Lectures of forensic medicine and toxicology will also included in this module.

By the end of the module the students should be able to :

1. Apply the knowledge of the biochemical and cellular physiology to discuss the pathogenic mechanisms resulting in alterations in haemodynamics and shock.
2. Describe the clinical manifestations associated with these pathologic changes.
3. Discuss the role of different pharmacological agents used in clinical conditions which arise due to disturbance in haemodynamics.

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
WEEK 1							
DAY 1 10-07-2025 (Thursday)							
8.00-8.45am	1	Accidents in home and environment :Death due to drowning				Forensic Medicine	45 mins

8.45-09.30am	2	Oedema , Ascites, hydrothorax and Anasarca		To be able to define and categorize edema according to various pathophysiological categories	Robbins Pathology	Pathology	45 min
9.30-10.15am	3	Diuretics		Student should be able to enumerate various diuretics and understand their routes of administration absorption, distribution, metabolism and excretion.	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch C: Congestion of liver. Batch A : Small group discussion Batch B : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 2 11-07-2025 (Friday)							
8.00-8.45 am	4.	Haematinics		To be able to define and differentiate between hyperemia, congestion		Pharmacology	45 mins
8.45-9.30am	5.	Hyperemia and congestion				Pathology	45 mins
9.30-10.15am	6.	Accidents in home and environment : Burns (Dry and Wet burns)		Student should have sound knowledge of different types of burns.		Forensic Medicine	45 min
10.30—12.00pm		PRACTICAL		Batch A: Pathology Batch B: Pharmacology Batch C: Forensic Medicine	Class divisible in three batches	Respective departments	
DAY 3 12-07-2025 (Saturday)							
8.00-8.45am	7.	Accidents in home and environment : Death due to starvation , Heat and cold effect		Students should be able to describe the effects of starvation and cold/ heat on body.		Forensic Medicine	45 mins
8.45-9.30am	8.					Pathology	45 mins
9.30-10.15am	9.	Coagulants				Pharmacology	45 min
10.15-11.00am	10.					Pharmacology	45 min
11.00-11.45am	11.					Medicine	45 min
11.45-12.30pm	12.					Surgery	45 min

12.45—02.30		PRACTICAL		Batch B : Congestion of liver Batch C : Small group discussion Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 4 14-07-2025 (Monday)							
8.00-8.45am	13.	Shock Its pathophysiology, types (hypovlemic , cardiogenic, vasovagal and septic) , causes and compensatory mechanisms involved.			Robbins pathology	Pathology	45 mins
8.45-9.30am	14.	Haemorrhage			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
9.30-10.15am	15.	Arsenic poisoning				Forensic medicine	45 min
Hospital work 10.30-12.00							
12.10—02.00		PRACTICAL		Batch C: Pathology Batch A: Small group Discussion Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 5 15-07-2025 (Tuesday)							
8.00-8.45am	16.	Anticoagulants : Heparin (low molecular weight and unfractionated)		The use of anticoagulants in various clinical conditions	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30am	17	Infarction: Its types, morphological picture and differences between different types.				Pathology	45 min
9.30-10.15am	18	Mesenteric Ischaemia				Surgery	45 mins
Hospital work 10.30-12.00							
12.10-2.00pm		PRACTICAL		Batch A: Pathology Batch B: small group discussion Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

DAY 6							
16-07-2025 (Wednesday)							
8.00-8.45am	19	Overview of myocardial infarction				Medicine	45 mins
8.45-9.30am	20					Orthopedics	45 min
9.30-10.15am	21	Thrombosis: Etiology and pathogenesis, possible consequences. Differences between thrombi and clot.		To be able to define and differentiate various types of embolism	Robbins Pathology	Pathology	45 min
Hospital work							
10.30-12.00							
12.10 —02.00		PRACTICAL		Batch: B Pathology Batch: C Small group discussion Batch: A Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 7							
17-07-2025 (Thursday)							
8.00-8.45am	22.	Thrombophlebitis , deep venous thrombosis				Surgery	45 min
8.45-9.30am	23.	Fibrinolytics and antiplatelet drugs				Pharmacology	45 mins
9.30-10.15am	24.	Vascular lesions of orbit / eye; AV Shunt/ Malformatins/ communications Carotico sinus thrombosis Cavernous sinus thrombosis Haemangioma of orbit/ eye				Eye	45 mins
Hospital work 10: 30 to 12: 00 p.m.							
12: 10 —2:00		Practical		Batch C : Pathology Batch A : Small group discussion Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	Practical
Day 08							
18-07-2025 (Friday)							
8.00-8.45am	25	Embolism: Classification of emboli according to their composition. Differences between arterial and venous thrombi				Pathology	45 mins
08.45-09.30am	26	Warfarin and other drugs				Pharmacology	45 mins

09.30-10.15am	27	Complications of trauma : Thromboembolic phenomenon, haemorrhage, shock, Pulmonary, Air and fat embolism, Crush syndrome				Forensic medicine and toxicology	45 Mins
10.30— 12.00pm		Practical		Batch A : Pathology Batch B : Small group discussion Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
Day 09 19-07-2025 (Saturday)							
		Self-Study	Hospital Work (10:30 – 12.00pm)				
Day 10 21-07-2025 (Monday)							
		Pathology Assessment (Special Microbiology (09:00-10.00am)		Hospital Work (10:30 – 12.00pm)			
Day 11 22-07-2025 (Tuesday)							
		Pharmacology Assessment (09:00-10.00am)		Hospital Work (10:30 – 12.00pm)			
Day 12 23-07-2025 (Wednesday)							
		Self-Study		Hospital Work (10:30 – 12.00pm)			
Day 13 24-07-2025 (Thursday)							
		Forensic Assessment (09:00-10.00am)		Hospital Work (10:30 – 12.00pm)			

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HAEMODYNAMICS MODULE OF 3RD YEAR MBBS (10-07-2025 24-07-2025)

10-07-25	Thursday	Forensic Medicine	Pathology	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
11-07-25	Friday	Pharmacology	Pathology	Forensic medicine	Practical Respective Department (10:30-12.00pm)			A: Pathology B: Pharmacology C: Forensic medicine
12-07-25	Saturday	Forensic medicine	Pathology	Pharmacology	Pharmacology (10.15-11.00 am)	Medicine 11.00-11.45am	Surgery (11.45-12.30)	B: Pathology C: Pharmacology A: Forensic medicine 12.45-02.30PM
14-07-25	Monday	Pathology	Pharmacology	Forensic Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
15-07-25	Tuesday	Pharmacology	Pathology	surgery	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
16-07-25	Wednesday	Medicine	Orthopedics	Pathology	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine
17-07-25	Thursday	Surgery	Pharmacology	EYE	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
18-07-25	Friday	Pathology	Pharmacology	Forensic Medicine	Practical Respective Department (10:30-12.00pm)			A: Pharmacology B: Forensic C: Pathology
19-07-25	Saturday	Self-Study			Hospital work 10.30-12.00pm			
21-07-25	Monday	Pathology Assessment Special Bacteriology (9.00-10.00 am)			Hospital work 10.30-12.00pm			
22-07-25	Tuesday	Pharmacology Assessment (9.00-10.00 am)			Hospital work 10.30-12.00pm			
23-07-25	Wednesday	Self-Study			Hospital work 10.30-12.00pm			
24-07-25	Thursday	Forensic Assessment (9.00-10.00 am)			Hospital work 10.30-12.00pm			

3RD INTERMODULE (25-07-2025 to 13-08-2025)								
Date	Day	8.00-8.45 am	8.45-9.30am	9.30-10.15am	Hospital work 10.30-12.00pm			Practical 12.10-2.00 pm
25-07-25	Fri	Pharmacology	Forensic medicine	Medicine	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
26-07-25	Saturday	Pharmacology	Forensic medicine	Forensic medicine	Medicine (10.15-11.00 am)	Surgery 11.00-11.45am	ENT (11.45-12.30)	B: Pathology C: Pharmacology A: Forensic medicine (12.45-02.30pm)
28-07-25	Monday	Forensic medicine	Behavioral sciences	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
29-07-25	Tuesday	Pharmacology	Orthopaedics	Surgery	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
30-07-25	Wednesday	Forensic medicine	Pharmacology	Behavioral sciences	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine
31-07-25	Thursday	Pharmacology	Forensic Medicine	Surgery	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
01-08-25	Friday	Behavioral Sciences	Forensic Medicine	Pharmacology	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
02-08-25	Saturday	Pharmacology	Forensic medicine	Pharmacology	Pharmacology (10.15-11.00 am)	Medicine 11.00-11.45am	Forensic Medicine (11.45-12.30)	B: Pathology C: Pharmacology A: Forensic medicine (12.45-02.30pm)
04-08-25	Monday	Pharmacology	Forensic medicine	Behavioural sciences	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine

05-08-25	Tuesday	Forensic medicine	Pharmacology	ENT	Hospital work 10.30-12.00pm	A: Pathology B: Pharmacology C: Forensic medicine
06-08-25	Wednesday	Forensic medicine	Pharmacology	Behavioral sciences	Hospital work 10.30-12.00pm	B: Pathology C: Pharmacology A: Forensic medicine
07-08-25	Thursday	Self-Study			Hospital work 10.30-12.00pm	
08-08-25	Friday	Pharmacology Assessment (9.00-10.00 am)			Hospital work 10.30-12.00pm	
09-08-25	Saturday	Self-Study			Hospital work 10.30-12.00pm	
11-08-25	Monday	Pathology Assessment (Virology, Parasitology & Hemodynamic) (9.00-10.00 am)			Hospital work 10.30-12.00pm	
12-08-25	Tuesday	Self-Study			Hospital work 10.30-12.00pm	
13-08-25	Wednesday	Forensic Assessment (9.00-10.00 am)			Hospital work 10.30-12.00pm	

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3RD INTERMODULE/BEHAVIORAL SCIENCES

DURATION 12 DAYS (25-07-2025 to 13-08-2025)

CONTACT HOURS Lectures =22 hours + Practicals = 22.50 Hours + Hospital stay = 10.5 HOURS

CREDIT HOURS 2

DAY 1								25-07-25(Friday)							
8.00-8.45	1	CNS					Pharmacology	45 min							
8.45-9.30	2	FORENSIC ASPECT OF VIOLENT ASPHYXIAL DEATHS; mechanism ,physio-chemico-pathological changes					Forensic Medicine	45 min							
9.30-10.15	3		-	=	-		Medicine	45 min							
10.30—12.00		PRACTICAL		BATCH A : Pathology Batch B: Pharmacology Batch C: Forensic Medicine	Class divisible in three batches		Respective departments								
DAY 2								26-07-2025(Saturday)							
8.00-8.45	4	CNS				Basic and clinical pharmacology	Pharmacology	45 min							
8.45-9.30	5	Autopsy findings (interpretation + cause of death)		smothering ,suffocation, ,strangulation ,hanging & Traumatic asphyxia			Forensic medicine	45 min							
9.30-10.15	6	Surgical wounds			-		Forensic Medicine	45 min							
10.15-11:00							Medicine	45 min							
11.00-11.45							Surgery	45 min							
11.45-12.30							ENT	45 min							
12.45-02:30pm		PRACTICAL		BATCH B : Pathology Batch C: Pharmacology Batch A: Forensic Medicine	Class divisible in three batches		Respective departments								

DAY 3				28-07-2025 (Monday)			
8.00-8.45	7	Autopsy findings (interpretation + cause of death)		smothering ,suffocation, ,strangulation ,hanging & Traumatic asphyxia		Forensic medicine	45 min
8.45-9.30	8	Alzeihmers disease				Behaviorial sciences	45 min
9.30-10.15	9	CNS				Pharmacology	45 min
Hospital work				10.30-12.00			
12:10-02:00pm		PRACTICAL		BATCH C: Pathology Batch A: Pharmacology Batch B:Forensic Medicine	Class divisible in three batches	Respective departments	
DAY 4				29-07-2025 (Tuesday)			
8.00-8.45	10	CNS				Pharmacology	45 min
8.45-9.30	11					Orthopedics	45 min
9.30-10.15	12	Surgical site infection				surgery	45 min
Hospital work				10.30-12.00			
12.10—02.00		PRACTICAL		BATCH A : Pathology Batch B : Pharmacology Batch C : Forensic Medicine Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 5				30-07-2025 (Wednesday)			
8.00-8.45 am	13	MEDICOLEGAL ASPECTS OF SEX		Current laws regarding impotency ,sterility, marriage & sexual abuse	Robbins Pathology	Forensic medicine	45 min
8.45-9.30	14	CNS				Pharmacology	45 min
9.30-10.15	15	Mental health act				Behaviorial sciences	45 min
Hospital work				10.30-12.00			
12.10—02.00		PRACTICAL		BATCH B: Pathology Batch C: Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

DAY 6 31-07-2025 (Thursday)							
8.00-8.45	19.	CNS			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30	20	Legal & ethical issues		regarding impotency ,sterility, marriage & sexual abuse		Forensic Medicine	45 MIN
9.30-10.15	21	Skin closure techniques				surgery	45 min
Hospital work 10.30-12.00							
12.10-02.00		PRACTICAL		Batch C : Pathology Batch A : Pharmacology Batch B : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 7 01-08-2025 (Friday)							
8.00-8.45	22.	Ethics & professional sim				Behavioral sciences	45 min
8.45-9.30	23.	Legal implications in cases of sexual assault				Forensic medicine	45 min
9.30-10.15	24.	CNS			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
10.30 — 12.00		PRACTICAL		Batch A: Pathology Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	45 min
DAY 8 02-08-2025 (Saturday)							
8.00-8.45	25.	CNS			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30	26.	Legal and ethical issues related to unwanted pregnancy				Forensic medicine	45 min
9.30-10.15	27.					Pharmacology	45 min
10.15-11.00						Pharmacology	45 min

11.00-11.45						Medicine	45 min
11.45-12.30						Surgery	45 min
12.45-02.30		Practical		Batch B: Pathology Batch C: Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 9 04-08-2025 (Monday)							
8.00-8.45		CNS				Pharmacology	45 min
8.45-9.30		Criminal abortion; identification at autopsy				Forensic Medicine	45 min
9.30-10.15		Patient doctor relationship				Behavior Sciences	45 min
Hospital work 10.30-12.00							
12.10 — 02.00		PRACTICAL		Batch C: Pathology Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 10 05-08-2025 (Tuesday)							
8.00-8.45		Procedure for collection preservation dispatch of specimen in cases of sexual assault				Forensic Medicine	45 min
8.45-9.30		CNS				Pharmacology	45 min
9.30-10.15						ENT	45 min
Hospital work 10.30-12.00							
12.10 — 02.00		PRACTICAL		Batch A: Pathology Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

DAY 11 06-08-2025 (Wednesday)							
8.00-8.45		Other medicolegal aspects of sex				Forensic Medicine	45 min
8.45-9.30		CNS				Pharmacology	45 min
9.30-10.15		Non communicable psychiatric illness				Behavioral Sciences	45 min
Hospital work 10.30-12.00							
12.10 — 02.00		PRACTICAL		Batch B: Pathology Batch C: Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 12 07-08-2025 (Thursday)							
		Self-study					
		Hospital Work					
DAY 13 08-08-2025 (Friday)							
		Pharmacology Assessment					
		Hospital Work					
DAY 14 09-08-2025 (Saturday)							
		Self-study					
		Hospital Work					
DAY 15 11-08-2025 (Monday)							
		Pathology Assessment (Virology, Parasitology & Hemodynamic)					
		Hospital Work					
DAY 16 12-08-2025 (Tuesday)							
		Self-study					
		Hospital Work					
DAY 17 13-08-2025 (Wednesday)							
		Forensic Assessment					
		Hospital Work					

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MUSCULOSKELETAL SYSTEM, 2025

DURATION 18 DAYS

Dated: 11-08-25 to 30-08-25

CONTACT HOURS Lectures 22 = 16.5 hours (1) + Practical's + Hospital stay = 44 Hours (0.91)

CREDIT HOURS 2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of Bones, Joints & Soft tissue. The interrelated clinical aspects of Medicine, Surgery, Orthopaedics will be covered. The radiological aspects will also be dealt with. By the end of the module, the students should be able to:

1. Describe:

Basic structure & function of Bones, Joints & soft tissue

2. Discuss the Pathological and all clinical aspects of:

- Congenital bone diseases
- Acquired bone diseases
- Tumours of bones, joints & soft tissue
- Various types of Arthritis

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
11-8-25 Monday							
8:00-8:45	1					Orthopaedics	45 min
8:45-9:30	2	Developmental disorders of Bone & Cartilage		Metabolic disorders	Robbins & Cotran	Pathology	45 min
9:30-10:15	3	Developmental dysplasia of bone				Radiology	45 min
Hospital work 10.30-2.30							
12-08-25 Tuesday							
8:00-8:45	4.	Rickets & Osteomalacia, Osteoporosis		Definition, Causes, Clinical Features, Investigations and management of Rickets & Osteomalacia. Definition, Causes, Clinical Features, Investigations and management of Osteoporosis		Medicine	45 min
8:45-9:30	5.	Metabolic & Degenerative bone diseases				Radiology	45 min
9:30-10:15	6.					Orthopaedics	45 min
Hospital work 10.30-11.45							
		PRACTICAL		<u>-- OVERVIEW</u> <u>-- PRACTICAL</u> <u>-- SMALL GROUP DISCUSSIONS</u>		Respective departments	12.00—2.30
13-08-25 Wednesday							
8:00-8:45	7.	Rickets & Osteomalacia		Definition, Causes, Clinical Features, Investigations and management of Rickets & Osteomalacia.		Medicine	45 min
8:45-9:30	8.					Orthopaedics	45 min
9:30-10:15	9.	Acquired Bone diseases		Pathophysiology of - Osteoporosis - Paget's disease	Robbins & Cotran	Pathology	45 min
Hospital work 10.30-2.30							
14-08-25 Thursday (Holiday)							
15-08-25 Friday							
8:00-8:45	13.	Osteomyelitis		Surgical Aspects		Surgery	45 min
8:45-9:30	14	Fractures				Radiology	45 min

9:30-10:15	15	Bone tumours		• Bone and cartilage forming tumours	Robbins & Cotran	Pathology	45 min
HOSPITAL WORK 10.30-12.00							
16-08-25 Saturday							
8:00-8:45	16.	Basic principles of Fracture management		•		Surgery	45 min
8:45-9:30	17.	Multiple Myeloma		Definition, Causes, Clinical Features, Investigations and management of Multiple Myeloma	•	MEDICINE	
9:30-10:15	18.	Tumours of Bones				Radiology	45 min
HOSPITAL WORK 10.30-2.30							
18-08-25 Monday							
8:00-8:45		Arthritis		Etiology, Pathogenesis & Morphology with special emphasis over Osteoarthritis, Rheumatoid Arthritis	Robbins & Cotran	Pathology	45 min
8:45-9:30	21					Orthopedics	45 min
9:30-10:15	22	Hyperparathyroidism. Renal osteodystrophy		Definition, Causes, Clinical Features, Investigations and management of Hyperparathyroidism and Renal osteodystrophy		Medicine	
Hospital work 10.30-2.30							
19-08-25 Tuesday							
8:00-8:45	23					Orthopedics	45 min
8:45-9:30	24	Arthritis		Clinical features of Arthritis. Case scenario.....Rheumatoid arthritis	•	Medicine	45 min
9:30-10:15	25.	Inflammatory conditions		Bones & Joints		Radiology	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Respective departments	12.00—2.30
20-08-25 Wednesday							
8:00-8:45	26	Soft tissue infection				Surgery	45 min
8:45-9:30	27	Seronegative Arthritis		Seronegative Arthritis.....Case Scenarios.		Medicine	45 min
9:30-	28	Other types of arthritis				Pathology	45 min

10:15							
Hospital work				10.30-2.30			
21-08-25 Thursday							
8:00-8:45		Infectious arthritis & Crystal induced arthritis		Etiology, Pathogenesis & Morphology of Gout	Robbins & Cotran	Pathology	45 min
8:00-8:45	29.					Orthopedics	45 min
8:45-9:30	30.	Crystal Arthropathy		Definition, Causes, Clinical Features, Investigations and management of Crystal Arthropathy (Gout)	•	Medicine	45 min
Hospital work				10.30-11.45			
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
22-08-25 Friday							
8:00-8:45	32.	Soft tissue tumors				Pathology	45 min
8:45-9:30	33	Soft tissue tumor				Radiology	45 min
9:30-10:15	33	Soft tissue tumors (Benign)		Surgical Aspects		Surgery	45 min
		HOSPITAL WORK				Respective departments	10.30-12.00
23-08-25 Saturday							
8:00-8:45	34.	Bone & soft tissue sarcomas Overview				Oncology	45 min
8:45-9:30	35.	Soft tissue tumor (Sarcoma)				Surgery	
9:30-10:15	36.					Orthopedics	45 min
Hospital work				10.30-2.30			
25-08-2025 Monday							
8:00-8:45	37					Orthopedics	45 min
8:45-9:30	38					Radiology	45 min
9:30-10:15	39					Surgery	45 min
Hospital work				10.30-2.30			

26-08-2025 Tuesday							
8:00-8:45	40					Medicine	45 min
8:45-9:30	41					Orthopedic	45 min
9:30-10:15	42					Radiology	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
27-08-2025 Wednesday							
8:00-8:45	43					Surgery	45 min
8:45-9:30	44					Medicine	45 min
9:30-10:15	45					Orthopedic	45 min
Hospital work 10.30-2.30							
28-08-2025 Thursday							
8:00-8:45	46					Pathology	45 min
8:45-9:30	47					Surgery	45 min
9:30-10:15	48					Radiology	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
29-08-2025 Friday							
8:00-8:45	49					Medicine	45 min
8:45-9:30	50					Oncology	45 min
9:30-10:15	51					Orthopedics	45 min
HOSPITAL WORK 10.30-12.00							
30-08-2025 Saturday							
8:00-8:45	52					Oncology	45 min
8:45-9:30	53					Surgery	45 min

9:30-10:15	54					Radiology	45 min

All lectures will be conducted in Maqboold Ahmad, Block of KEMU, Lahore.

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TIME TABLE OF 3rd YEAR MBBS (4th Intermodule)
15-08-2025 to 10-09-2025

Date	Day	8.00-8.45 am	8.45-9.30am	9.30-10.15am	Hospital work			Practical 12.10-2.00 pm
15-08-25	Friday	Pathology	Medicine	Pharmacology	Practicals Respective Departments (10:30-12:00pm)			A: Pathology B: Pharmacology C: Forensic medicine
16-08-25	Saturday	Medicine	Pathology	Pharmacology	Pharmacology 10:15-11:00	Medicine 11:00-11:45	Surgery 11:45-12:30	B: Pathology C: Pharmacology A: Forensic medicine 12:45PM-02:30PM
18-08-25	Monday	Ophthalmology	Pharmacology	Pathology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
19-08-25	Tuesday	Pharmacology	Orthopedics	ENT	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
20-08-25	Wednesday	Pharmacology	Pharmacology	Orthopedics	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine
21-08-25	Thursday	Pharmacology	Orthopedics	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
22-08-25	Friday	Pharmacology	Ophthalmology	Pathology	Practicals Respective Departments (10:30-12:00pm)			A: Pathology B: Pharmacology C: Forensic medicine
23-08-25	Saturday	Pathology	Ophthalmology	Pharmacology	Pharmacology 10:15-11:00	Orthopedics 11:00-11:45	ENT 11:45-12:30	B: Pathology C: Pharmacology A: Forensic medicine 12:45PM-02:30PM
25-08-25	Monday	Ophthalmology	Pathology	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
26-08-25	Tuesday	Pharmacology	Pharmacology	Pathology	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine

27-08-25	Wednesday	Pharmacology	Pathology	Pharmacology	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine
28-08-25	Thursday	ENT	Pathology	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
29-08-25	Friday	Pharmacology	Ophthalmology	Pharmacology	Practicals Respective Departments (10:30-12:00pm)			A: Pathology B: Pharmacology C: Forensic medicine
30-08-25	Saturday	Pharmacology	Surgery	Pharmacology	Pharmacology 10:15-11:00	Orthopedics 11:00-11:45	ENT 11:45-12:30	B: Pathology C: Pharmacology A: Forensic medicine 12:45PM-02:30PM
01-09-25	Monday	Ophthalmology	Pharmacology	ENT	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
02-09-25	Tuesday	Pharmacology	Surgery	Orthopedics	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
03-09-25	Wednesday	Surgery	Orthopedics	ENT	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine

04-09-25	Thursday	SELF-STUDY	Hospital work 10.30-12.00pm
05-09-25	Friday	Pharmacology Assessment	Hospital work 10.30-12.00pm
06-09-25	Saturday	SELF-STUDY	Hospital work 10.30-12.00pm
08-09-25	Monday	Pathology Assessment	Hospital work 10.30-12.00pm
09-09-25	Tuesday	SELF-STUDY	Hospital work 10.30-12.00pm
10-09-25	Wednesday	Forensic Assessment	Hospital work 10.30-12.00pm

All lectures and assessment will be conducted in Forensic Lecture Theatre.

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TIME TABLE OF 3rd YEAR MBBS (4th Intermodule)

24-10-2022 to 26-10-2022

Date	Day	8.00-8.45 am	8.45-9.30am	9.30-10.15am	Practical 10:30-12:30 p.m.
24-10-22	Monday	Ophthalmology	Forensic Medicine	ENT	Batch: B Squamous Cell Carcinoma
25-10-22	Tuesday	PHARMACOLOGY CLASS TEST		Ortho	Batch: B Batch: C Leiomyoma
26-10-22	Wednesday	Surgery	Orthopedics	ENT	

All lectures and assessment will be conducted in Library Hall in Patiala Block.

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4TH INTERMODULE

DURATION 15 DAYS

CONTACT HOURS Lectures =44 hours + Practicals= 44.50 Hours + Hospital stay = 20.5 HOURS

CREDIT HOURS 4

DAY 1 (15-08-2025) Friday							
8.00-8.45	1.				Robbins Pathology	Pathology	45 min
8.45-9.30	2.	Symptoms of Immunological /connective tissue disorders		CASE SCENARIOS: Monoarthritis Polyarthritis SLE Disorders of calcium metabolism		Medicine	45 Min
9.30-10.15	3.	Endocrinology				Pharmacology	45 min
10.30-12.00		PRACTICAL		BATCH A: Pathology Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 2 (16-08-2025) Saturday							
8.00-08.45	3.	Symptoms of Endocrinology Disorders & Diabetes				Medicine	45 Min
8.45-09.30	4.					Pathology	45 Min
9.30-10.15	5.					Pharmacology	45 Min
10.15-11.00						Pharmacology	45 Min
11.00-11.45						Medicine	45 Min
11.45-12.30						Surgery	45 Min

12.45-02.30		Practical		BATCH B: Small Group Discussion Batch C: Pharmacology Batch A: Medicolegal / autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective Departments	
DAY 3 (18-08-2025) Monday							
8.00-8.45	9.					Ophthalmology	45 min
8.45-9.30	10.	Endocrinology			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	
9.30-10.15	11.					Pathology	45 min
Hospital Work (10.30 – 12.00)							
12.10-02.00		Practical		BATCH C: Small Group Discussion Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective Departments	
DAY 4 (19-08-2025) Tuesday							
8.00-8.45	12.					Pharmacology	
8.45-9.30	13.					Orthopedics	
9.30-10.15	14.	ENT INFECTIONS		MTB , Cornebacterium diphtheria		ENT	45 min
Hospital Work (10.30 – 12.00)							
12.10-02.00		PRACTICAL		Batch A: small group discussions Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 5 (20-08-2025) Wednesday							
8.00-8.45	15.	Endocrinology				Pharmacology	45 min
8.45-9.30	16.					Pharmacology	45 min
9.30-10.15	17.					Orthopaedics	45 min

Hospital Work (10.30 – 12.00)							
12.10-02.00		Practical		Batch C: small group discussions Batch C : Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 6 (21-08-2025) Thursday							
8.00-8.45	18.	GIT			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30	19.					Orthopedics	45 min
9.30-10.15	20.	Revision				Pharmacology	45 min
Hospital Work (10.30 – 12.00)							
12.10-02:00		Practical		Batch C : small group discussions Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 7 (22-08-2025) Friday							
8.00-8.45	21.	GIT				Pharmacology	45 min
8.45-9.30	22.					Ophthalmology	45 min
9.30-10.15	23.					Pathology	45 min
10.30-12.00		Practical		Batch A: pathology: Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 8 (23-08-2025) Saturday							
8.00-8.45	24.					Pathology	45 min
8.45-9.30	25.					Ophthalmology	45 min
9.30-10.15	26.					Pharmacology	45 min

10.15-11.00						Pharmacology	45 min
11.00-11.45						Ophthalmology	45 min
11.45-12.30						ENT	45 min
12.45-02.30		PRACTICAL		BATCH B: Pathology Batch C: Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 9 (25-08-2025) Monday							
8.00-8.45	30.					Ophthalmology	45 min
8.45-9.30	31.					Pathology	45 min
9.30-10.15	32.	GIT				Pharmacology	45 min
Hospital work 10.30-12.00							
12.10-02.00		PRACTICAL		Batch C: Pathology Batch A : Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 10 (26-08-2025) Tuesday							
8.00-8.45	33.					Pharmacology	45 min
8.45-9.30	34.	GIT			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
9.30-10.15	35.					Pathology	45 min
Hospital work 10.30-12.00							
12.10 -02.00		PRACTICAL		Batch A: Pathology Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 11 (27-08-2025) Wednesday							
8.00-8.45	36.					Pharmacology	45 min
8.45-9.30	37.					Pathology	45

9.30-10.15	38.					Pharmacology	45 min
Hospital work 10.30-12.00							
12.1-02.00		Practical		Batch B small group discussions Batch C : Pharmacology practical Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 12 (28-08-2025) Thursday							
8.00-8.45	39.					ENT	45 min
8.45-9.30	40.					Pathology	45 min
9.30-10.15	41.	GIT			Basic & clinical pharmacology 12 th edition Katzung	Pharmacology	45 min
Hospital work 10.30-12.00							
12.10-02.00		PRACTICAL		Batch C : small group discussions Batch A : Pharmacology practical Batch B : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 13 (29-08-2025) Friday							
8.00-8.45	42.	GIT				Pharmacology	45 min
8.45-9.30	43.					Ophthalmology	45 min
9.30-10.15	44.	GIT				Pharmacology	45 min
10.30-12:00		PRACTICAL		Batch A : Pathology Batch B : Pharmacology practical Batch C : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 14 (30-08-2025) Saturday							
8.00-8.45	45.	GIT				Pharmacology	45 min
8.45-9.30	46.					Surgery	45 min
9.30-10.15	47.					Pharmacology	45 min
10.15-11.00						Pharmacology	45 min
11.00-11.45						Orthopedics	45 min

11.45-12.30						ENT	45 min
12.45-02.30		PRACTICAL		Batch B : small group discussions Batch C : Pharmacology practical Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 15 (01-09-2025) Monday							
8.00-8.45	39.					Ophthalmology	45 min
8.45-9.30	40.					Pharmacology	45 min
9.30-10.15	41.					ENT	45 min
Hospital work 10.30-12.00							
12.10-02.00		PRACTICAL		Batch C : Pathology Batch A : Pharmacology practical Batch B : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 16 (02-09-2025) Tuesday							
8.00-8.45						Pharmacology	45 Min
8.45-9.30						Surgery	45 Min
9.30-10.15						Orthopedics	45 Min
Hospital work 10.30-12.00							
12.10-02:00		PRACTICAL		Batch A : Pathology Batch B : Pharmacology practical Batch C : Medicolegal/ autopsy/ analytical/serology/ radiological lab			
DAY 17 (03-09-2025) Wednesday							
8.00-8.45	39.					Surgery	45 min
8.45-9.30	40.					Orthopedics	45 min
9.30-10.15	41.					ENT	45 min

Hospital work				10.30-12.00			
12.10-02.00		PRACTICAL		Batch B: Pathology Batch C: Pharmacology practical Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab			
DAY 18 (04-09-2025) Thursday							
SELF-STUDY					Hospital Work (10.30-12.00pm)		
DAY 19 (05-09-2025) Friday							
Pharmacology Assessment				Hospital Work (10.30-12.00pm)			
DAY 20(06-09-2025) Saturday							
SELF-STUDY					Hospital Work (10.30-12.00pm)		
DAY 21 (08-09-2025) Monday							
Pharmacology Assessment					Hospital Work (10.30-12.00pm)		
DAY 22 (09-09-2025) Tuesday							
SELF-STUDY					Hospital Work (10.30-12.00pm)		
DAY 23 (10-09-2025) Wednesday							
Forensic Medicine Assessment					Hospital Work (10.30-12.00pm)		

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MODULE

NEOPLASIA

DURATION **9 DAYS (11-09-2025 to 20-09-2025)**

CONTACT HOURS Lectures =22.5 hours + Practicals =22.50 Hours + Hospital stay = 10.5 HOURS

CREDIT HOURS = 2.0

TEACHING METHODOLOGIES Lectures/Practicals/clinics

OBJECTIVES

The course is designed primarily for 3rd year M.B;B.S students and will cover the fundamental aspects of NEOPLASIA and the pharmacology of antineoplastic drugs with interrelated clinical aspects of Medicine, Surgery, Orthopedics ,Eye , Ear, Nose and Throat. By the end of the module, the students should be able to :

1. Describe:

- The differences between Benign and Malignant neoplasms
- Epidemiology of Cancer
- Neoplastic conditions of orbit , eyelid and ENT
- Molecular genetics of Neoplasia

2. Discuss the role of:

Chemotherapy, anticancer drug development, Neoplasia cell burden, Cell cycle Kinetics, resistance to cytotoxic drugs

3. Clinical aspects of neoplasia :

Cancer Cachexia, Para neoplastic syndrome

4. Diagnosis , staging and surgical intervention

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT	FACILITATOR
DAY 1 11-09-2025 (Thursday)							
8.00-8.45	1	Introduction to Neoplasia		The students should be able to define the terms : Neoplasia , dysplasia , metaplasia, anaplasia, They should be familiar with the nomenclature of neoplasia	Robbins Pathology	Pathology	45 min
8.45-9.30	2	Evolution of pre malignant conditions into malignancy : case scenario of Colonic CA developing in ulcerative colitis				Medicine	
9.30-10.15	3	Introduction to Cancer chemotherapy, anticancer drug development, Neoplasia cell burden, Cell cycle Kinetics, resistance to cytotoxic drugs			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
Hospital work 10.30-12.00							
12:10-02:00		Practical		Batch C: Fibroadenoma, Leiomyoma Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 2 12-09-2025 (Friday)							
8.00-8.45	4.	Basic Pharmacology of cancer chemotherapeutic drugs, Polyfunctional alkylating agents, antimetabolites, antibiotics and hormonal agents			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30	5.	Benign and malignant neoplasms		The students should be able to: Enumerate the differences between benign and malignant neoplasms . Describe the process of metastasis		Pathology	45 min
9.30-10.15	6.	Epidemiology of cancer				Community Medicine	45 min

10.30-12.00		PRACTICAL		Batch A: Fibroadenoma, Leiomyoma, Lipoma Batch B : Pharmacology Batch C: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
13-09-2025 (Supplementary 1st Modular Assessment of 3rd year only for supply students (10:00am to 12:00noon Topics: General Microbiology, Inflammation, Cell Injury & Repair and Genetics							
DAY 4				15-09-2025 (Monday)			
8.00-8.45	10.	Clinical presentations of common neoplastic conditions				Medicine	45 mins
8.45-9.30	11.	Molecular genetics of cancer : Role of tumor suppressor genes : RB gene and P53			Robbins Pathology	Pathology	45 min
9.30-10.15	12.	Basic Pharmacology of cancer chemotherapeutic drugs, Polyfunctional alkylating agents, antimetabolites, antibiotics and hormonal agents			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
Hospital work				10.30-12.00			
12.10-02.00		PRACTICAL		Batch C: Fibroadenoma, Leiomyoma, Lipoma Batch A: Pharmacology Batch B: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 5				16-09-2025 (Tuesday)			
8.00-8.45	13.	Causes and screening for neoplasia				Surgery	45 min
8.45-9.30	14.	Molecular genetics of cancer : Role of tumor suppressor genes : APC ,WTN, NF1			Robbins pathology	Pathology	45 min
9.30-10.15	15					Orthopedics	45 min
Hospital work				10.30-12.00			
12.10—2.00		PRACTICAL		BATCH A: Squamous cell carcinoma Batch B: Pharmacology Batch C: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

DAY 6				17-09-2025 (Wednesday)			
8.00-8.45	16.	Squamous cell carcinoma of Larynx				ENT	45 min
8.45-9.30	17	Diagnosis , staging and surgical intervention				Surgery	45 min
9.30-10.15	18	Warburg effect, evasion of apoptosis , limitless replicative potential of neoplastic cells				Pathology	45 min
Hospital work				10.30-12.00			
12.10-2.00		PRACTICAL		Batch B: Squamous cell carcinoma Batch C: Pharmacology Batch A: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 7				18-09-24 (Thursday)			
8.00-8.45	19.				Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30	20.	Evasion of host defense : Role of tumor antigens				Pathology	45 min
9.30-10.15	21.	Introduction to chemotherapy and Radiotherapy , overview of tumor lysis syndrome				Oncology	45 min
Hospital work				10.30-12.00			
12.10 — 2.00		PRACTICAL		Batch C: Squamous cell carcinoma Batch A: Pharmacology Batch B: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 8				19-09-2025 (Friday)			
8.00-8.45	22.	Genomic instability, cancer enabling inflammation				Pathology	45 min
8.45-9.30	23.	Breaking the bad news				Behavioural sciences	
9.30-10.15	24.	Carcinogens : Chemical , radiation			Robbins Pathology	Pathology	45 min

10.30— 12.00		Practical		Batch A: Basal cell carcinoma Batch B: Pharmacology Batch C: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 9 20-09-2025(Saturday)							
8.00-8.45	25.	Clinical aspects of neoplasia : Cancer Cachexia , Para neoplastic syndrome			Basic and clinical pharmacology 12 th edition katzung	Medicine	45 min
8.45-9.30	26.	Microbial carcinogens		EBV, HEP-B VIRUS		Pathology	45 min
9.30-10.15	27.					Pharmacology	45 Min
10.15-11.00						EYE	
11.00-11.45						ENT	
11.45-12.30						Pathology	
12.45— 02.30pm		Practical		Batch B: Basal cell carcinoma Batch C: Pharmacology Batch A: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

All lectures will be conducted in Forensic Medicine lectures hall.

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Chairperson,
Department of Pathology,
KEMU, Lahore.

TIME TABLE OF 3RD YEAR MBBS (NEOPLASIA), 2025

NEOPLASIA MODULE								
Date	Day	Time (08:00-08:45am)	Time (08:45-09:30am)	Time (09:30-10:15am)	Hospital Works			Practicals (12:10-02:00)
11-09-25	Thursday	Pathology	Medicine	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A:Pharmacology B: Forensic medicine
12-09-25	Friday	Pharmacology	Pathology	Community Medicine	Respective Department Practical (10:30-12:00pm)			A: Pathology B:Pharmacology C: Forensic medicine
13-09-2025 (Supplementary 1 st Modular Assessment of 3 rd year only for supply students (10:00am to 12:00noon Topics: General Microbiology, Inflammation, Cell Injury & Repair and Genetics								
15-09-25	Monday	Medicine	Pathology	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A:Pharmacology B: Forensic medicine
16-09-25	Tuesday	Surgery	Pathology	Orthopedics	Hospital work 10.30-12.00pm			A: Pathology B:Pharmacology C: Forensic medicine
17-09-25	Wednesday	ENT	Surgery	Pathology	Hospital work (10.30-12.00pm)			B: Pathology C:Pharmacology A: Forensic medicine
18-09-25	Thursday	Pharmacology	Pathology	Oncology	Hospital work (10.30-12.00pm)			C: Pathology A:Pharmacology B: Forensic medicine
19-09-25	Friday	Pathology	Behavioural Sciences	Pathology	Respective Department Practical (10:30-12:00pm)			A: Pathology B:Pharmacology C: Forensic medicine
20-09-25	Saturday	Medicine	Pathology	Pharmacology	EYE 10:15-11:00am	ENT 11:00-11:45am	Pathology 11:45-12:30pm	B: Pathology C:Pharmacology A: Forensic medicine (12:45-02:30PM)

All lectures will be conducted in Forensic Medicine lectures hall.

DR. MARYAM ZAHID

3rd Year MBBS Incharge,
APWMO,
Department of Pathology, KEMU, Lahore.

PROF. DR. FAIZA BASHIR,

Chairperson,
Department of Pathology,
KEMU, Lahore.

TABLE OF SPECIFICATIONS (TOS)FOR 3RD PROFESSIONAL EXAMINATION
GENERAL PATHOLOGY AND MICROBIOLOGY

Total marks: 135

(MCQs Marks: 45 & SEQs Marks: 90)

Sr. No.	Topics	MCQs (30) 1.5 Marks each)	SEQs (10) 09 Marks each
01	Cell & cell cycle	02	01
02	Cell injury & cellular adaptations	02	
03	Genetics	02	01
04	Healing & Repair	01	
05	General Bacteriology	02	01
06	Special Bacteriology	05	02
07	Virology	02	01
08	Parasitology	02	
09	Mycology	02	
10	Hemodynamics	02	01
11	Inflammation	02	01
12	Neoplasia	02	01
13	Immunity	02	01
14	Diseases of infancy & childhood	01	
15	Environmental & Nutritional diseases	01	

Recommended Books:

- **Pathological Basis of Disease: Robins & Cortan (09th /updated edition)**
- **Review of Medical Microbiology & Immunology by Warren Levinson (16th / updated edition)**



HAEMATOLOGY MODULE OF 4TH YEAR MBBS (SESSION 2024-25)

DURATION: 29 DAYS

TIME	COURSE CONTENT		PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
02-01-2025 Thursday							
08.00-8.45	1	Evaluating Patients with orbital lesions				EYE	45 mins
08.45-9.30	2	Basic concepts of Community Medicine and Public Health				Community medicine	45 min
09.30-10.15	3	Normal haematopoiesis & Overview of various Lab investigations		- Students should have understanding of normal haematopoeitic development - Should be familiar with the terms of leucopenia, leukocytosis, lymphocytosis, lymphopenia and their causes. - A clear understanding of basic hematological investigations	Robbins Pathology	Pathology	45 min
Hospital work				10:30 a.m. to 2:30 p.m.			
03-01-2025 Friday							
08.00-8.45	4.					Anaesthesia	45 mins
08.45-9.30	5.	Anemia in Pregnancy				Gynaecology	45 min
9.30-0.15	6.	Anemias: their classification, anemias of blood loss, hemolytic anemias due to membrane disorders		Students should be able to define & classify anemias, know their underlying pathology and have clear concept of anemias due to membrane disorders	Robbins Pathology	Pathology	45 min
Hospital work				10:30 a.m. to 12:00 p.m.			

04-01-2025 Saturday							
8.00-8.45	7.	Surgical management of condition arising from hemolytic anemias				Surgery	45 min
8.45-9.30	8.	Inherited Hemolytic Anemias		• Red cell membrane defect • Hb. Abnormalities • Thalassemia • Sickle cell syndrome • Metabolic disorders (G6PD deficiency)		Paediatric Medicine	45 min
9.30-10.15	9.	Hemolytic anemias due to enzymopathies & haemoglobinopathies		Student should have a clear understanding of pathogenesis, clinical presentation and lab diagnosis of G6PD and sickle cell disease.	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
06-01-2025 Monday							
8.00-8.45	10.	Basic concepts of Community Medicine and Public Health				Community Medicine	45 min
8.45-9.30	11.	Thalassemia		Genetic counseling and special care of patient		Gynecology	45 min
9.30-10.15	12.	Thallasemias		Student should have a clear understanding of pathogenesis, clinical presentation and lab diagnosis of Beta and alpha thalassemia .	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							

07-01-2025 Tuesday							
8.00-8.45	13.	PNH and immune haemolytic anaemias		Students should be able to differentiate between different types of immune haemolytic anaemias and should have a clear understanding of their pathogenesis , clinical presentation and lab diagnosis	Robbins Pathology	Pathology	45 min
8.45-9.30	14	Acquired Hemolytic Anemias		• Autoimmune • Drug induced • Alloimmune • Non immune • Mechanical		Paediatric Medicine	45 min
9.30-10.15	15	Medical indications of splenectomy				surgery	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
08-01-2025 Wednesday							
8.00-8.45	16.	Vertigo				ENT	45 min
8.45-9.30	17.	Orbital Lesions				Eye	45 min
9.30-10.15	18.	Anaemias of diminished erythropoiesis – Iron deficiency anaemia		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of iron deficiency anemia	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
09-01-2025 Thursday							
8.00-8.45	20.	Basic concepts of Community Medicine and Public Health				Community Medicine	45 min
8.45-9.30	21.	Deficiency Anemias		• Iron deficiency		Medicine	45 min

		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		- Vit.B 12 - Folic acid			
9.30-10.15	22.	Megaloblastic anaemia		Student should have a clear concept of pathogenesis , clinical presentation and lab diagnosis of megaloblastic anaemia	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
10-01-2025 Friday							
8.00-8.45	23.	Fluid & electrolyte abnormalities and interpretation of ABG'S in surgical patients				Surgery	45 min
8.45-9.30	24.	Aplastic anaemia, Pure red cell aplasia and anemia of chronic disease		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of Aplastic anaemia, Pure red cell aplasia and anemia of chronic disease	Robbins Pathology	Pathology	45 min
9.30-10.15	25.	Anemias due to Bone marrow failure (Etiology, Clinical features ,Lab diagnosis & Management)		❖ Aplastic anemia Bone marrow transplantation Etiology, Clinical features ,Lab diagnosis & Management		Oncology	
Hospital work 10:30 to 12:00 p.m.							
11-01-2025 Saturday							
8.00-8.45	26.	Personality Development & impact on Patient interaction			Integrating Behavioral Sciences in Healthcare (Asma Humayun) Brig Mowadat Rana book on behavioral sciences	Behavioral sciences	45 min
8.45-9.30	27					Gynecology	45 mins

9.30-10.15	28.	Acute myeloid leukemia,		Students should be able to classify acute myeloid leukemia, should have a clear concept of their pathogenesis and related investigations.	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
13-01-2025 Monday							
8.00-8.45	29.	Otosclerosis				ENT	45 min
8.45-9.30	30.	Health & Disease				Community medicine	45 min
9.30-10.15	31.	Acute lymphoid leukemia		Students should be able to classify acute lymphoid leukemia, should have a clear concept of their pathogenesis and related investigations	Robbins Pathology	Pathology	45 min
Hospital work 10:30 to 2:30 p.m.							
15-01-2025 Wednesday							
8.00-8.45	32.	Surgical ethics		To understand: • The importance of autonomy in good surgical practice • The moral and legal boundaries and practical difficulties of informed consent • Good practice in making decisions about the withdrawal of life-sustaining treatment • The importance and boundaries of confidentiality in surgical practice • The importance of appropriate regulation in surgical research • The importance of rigorous training and maintenance of good practice standards	Surgery	Surgery	45 min
8.45-9.30	33.	Retinoblastoma				Eye	45 min

9.30-10.15	34.	Lymphoid neoplasms . Their classification , B cell NHL (1)		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of B cell NHL and special emphasis on CLL	Robbins Pathology	Pathology	45 min
Hospital work 10:30 to 2:30 p.m.							
16-01-2025 Thursday							
8.00-8.45	35.	Health & Disease				Community medicine	45 min
8.45-9.30	35.	B and T cell NHL (2)		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of B and T cell NHL	Robbins Pathology	Pathology (Dr. Sobia)	45 min
9.30-10.15	36.	Lymphoproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		Medicine	45 min
Hospital work 10:30 to 2:30 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
17-01-2025 Friday							
8.00-8.45	37.	Hodgkin's lymphoma		Should be familiar with its type, clinical and morphological features.	Robbins Pathology	Pathology	45 min
		Lymphoproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		Medicine	45 min
8.45-9.30	38.	Management of Lymphoproliferative disorders		Management of Lymphoproliferative diseases including adverse effects & complications of Chemotherapy		Oncology	45 min
Hospital work 10:30 to 12:00 p.m.							
18-01-2025 Saturday							
08:00 – 8:45	39.	Health and Disease				Community Medicine	
08:45 – 9:30	40	Multiple Myeloma				Pathology	

9:30 – 10:15	41	Multiple myeloma and Gamma globulin pathis				Medicine	
Hospital work 10:30 to 02:30 p.m.							
20-01-2025 Monday							
8.00-8.45	42.	Critically ill surgical patient				Surgery	45 min
8.45-9.30	43.	Glomus tumor				ENT	45 min
9.30-10.15	44.	Myeloproliferative disorders- Chronic myeloid leukemia Multiple myeloma		Students should be able to classify various myeloproliferative disorders, should be able to discuss in detail chronic myeloid leukaemia	Robbins Pathology	Pathology (Dr. Arsala)	45 min
Hospital work 10:30 to 2:30 p.m.							
21-01-2025 Tuesday							
8.00-8.45	45.	Myeloproliferative disorders-polycythemia Vera, Essential thrombocythemia and myelofibrosis		students should be able to describe various myeloproliferative disorders and their lab diagnosis	Robbins Pathology	Pathology	45 min
8.45-9.30	46.	Myeloproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		MEDICINE	
9.30-10.15	47.	Management of Myeloproliferative Disorders		❖ Etiology, Clinical features ,Lab diagnosis & Management		Oncology	45 min
Hospital work 10:30 to 12:00 a.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12: 00 to 02:30 p.m.
22-01-2025 Wednesday							
8.00 – 8.45	48	Health & Disease				Community Medicine	45 min
8.45 – 9.30	49.	Myelodysplastic syndrome		Student should have a clear concept of myelodysplasia and how to investigate it.	Robbins Pathology	Pathology (Dr. Rafeeda)	45 min
9.30 – 10.15	50.	Myelodysplasia& Stem cell Transplantation		Etiology, Clinical features ,Lab diagnosis & Management		Oncology	45 min

HOSPITAL WORK 10.30-2.30 p.m.							
23-01-2025 Thursday							
8.00 – 8.45	51.	Immunology				Community medicine	45 min
8.45 9.30	52.	Overview of Bleeding diathesis, its investigation and interpretation		Students should be familiar with various bleeding diathesis and should be able to interpret the findings of related investigations	Robbins Pathology	Pathology	45 min
9.30 – 10.15	53.	Principles of controlling hemorrhage and different tools of trade				Surgery	45 min
HOSPITAL WORK 10.30-12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12: 00 to 02:30 p.m.
24-01-2025 Friday							
8.00-8.45	54.	Medicines in Ophthalmology				Eye	
8.45-9.30	55.	Topic not suggested by relevant Department				Anaesthesia	
9.30-10.15	56.	Thrombocytopenia		Students should be able to classify and investigate various types of thromboctyopenias	Robbins Pathology	Pathology	45 min
Hospital work				10:30 to 12:00 p.m.			
25-01-2025 Saturday							
8.00-8.45	57.	Topic not suggested by relevant Department		•		Behaviorial Sciences	45 min
8.45-9.30	58.	Inherited and acquired platelet defects.		Students should be able to classify and investigate various types of platelet functional disorders especially Bernard Soulier and Glanzman ‘s thrombesthenia	Robbins Pathology	Pathology	
9.30-10.15	59.	Platelet disorders		• ITP • Platelet functional disorders		Paediatric MEDICINE	
Hospital work				10:30 to 02:30 p.m.			

27-01-2025 Monday							
8.00-8.45	66.	Disseminated intra vascular coagulation.		Students should have a clear concept of pathogenesis, clinical presentation and lab investigation of disseminated intra vascular coagulation	Robbins Pathology	Pathology	45 min
8.45-9.30	67.	DIC		Etiology, clinical manifestations, lab workup, differential diagnosis		Medicine	45 min
9.30-10.15	68.	Management of a surgical patient with coagulation disorders & Bleeding disorders				Surgery	45 min
Hospital work 10:30 to 02:30 p.m.							
28-01-2024 Tuesday							
8.00-8.45	69.	Thrombophilia		Pathogenesis		Pathology	45 min
8.45-9.30	70.	Thrombosis , Thrombophilia		(Etiology, Clinical manifestations, Lab workup, Differential diagnosis)		MEDICINE	45 min
9.30-10.15	71.	Stroke		Epidemiology, Risk factors, Etiology & Pathogenesis of Ischemic stroke		Neurology	45 min
Hospital work 10:30 to 12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12: 00 to 02:30 p.m.
29-01-2024 Wednesday							
8.00-8.45	72.	Blood grouping and Blood products and components		Students should develop comprehensive understanding of various blood groups, how to make various components of blood and its products.	Robbins Pathology	Pathology	45 min
8.45-9.30	73.	Blood products used in different hematological conditions				surgery	45 min
9.30-10.15	74.	immunology				Community Medicine	45 min
Hospital work 10:30 to 2:30 p.m.							

30-01-2025 Thursday							
88.00-8.45	75.	Vascular malformations				Plastic surgery	45 mins
8.45 – 9.30	76.	Stroke		Investigations and management		Neurology	45 mins
9.30-10.15	77	Blood transfusion reactions (1)		Students should be able to describe in detail various blood transfusion reactions	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12: 00 to 02:30 p.m.
31-01-2025 Friday							
8.00 - 8.45	78	Topics not suggested by relevant Department				Community Medicine	45 mins
8.45 – 9.30	79	Topics not suggested by relevant Department				Anaesthesia	45 mins
9.30 – 10.30	80	Blood transfusion reactions (2)		Students should be able to describe in detail various blood transfusion reactions	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 12:00 p.m.							
01-02-2025 Saturday							
8.00-8.45	81.	Ocular Side effect of systemic medications				Eye	45 min
8.45-9.30	82.	Von willibrand Disease				Pathology	
9.30-10.15	83.	Immunology				Community Medicine	45 min
Hospital work 10.30-02.30 p.m.							

- 1) All lectures will be conducted in Maqbool Ahmad Block KEMU.
- 2) To check the contents of these lectures, kindly open the email inbox (Request for Departmental Focal Persons & H.O.D's)

DR. SAFEENA SARFRAZ,
Module Incharge of 4th Year MBBS,
Assistant Professor,
Department of Pathology,
KEMU, Lahore.

PROF. DR. FAIZA BASHIR,
Chairperson,
Department of Pathology,
KEMU, Lahore.



HAEMATOLOGY MODULE OF 4TH YEAR MBBS (SESSION 2024-25)

DURATION: 02-01-2025 to 01-02-2025

DURATION

27 DAYS

CONTACT HOURS: 43

Lectures 85 = + Practical's + Hospital stay = ----

CREDIT HOURS: 03

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of-. The interrelated clinical aspects of Medicine, Surgery, Eye, Ear, Nose and Throat and Gynecological problems will also be covered. By the end of the module, the students should be able to:

1. Describe:

2. Discuss the Pathological and all clinical aspects of:

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
02-01-2025 Thursday							
08.00-8.45	1	Evaluating Patients with orbital lesions				EYE	45 min
08.45-9.30	2	Basic concepts of Community Medicine and Public Health				Community medicine	45 min

09.30-10.15	3	Normal haematopoiesis & Overview of various Lab investigations		- Students should have understanding of normal haematopoietic development - Should be familiar with the terms of leucopenia, leukocytosis, lymphocytosis, lymphopenia and their causes. - A clear understanding of basic hematological investigations	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
03-01-2025 Friday							
08.00-8.45	4.					Anaesthesia	45 mins
08.45-9.30	5.	Anemia in Pregnancy				Gynaecology	45 min
9.30-0.15	6.	Anemias: their classification, anemias of blood loss, hemolytic anemias due to membrane disorders		Students should be able to define & classify anemias, know their underlying pathology and have clear concept of anemias due to membrane disorders	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 12:00 p.m.							
04-01-2025 Saturday							
8.00-8.45	7.	Surgical management of condition arising from hemolytic anemias				Surgery	45 min
8.45-9.30	8.	Inherited Hemolytic Anemias		- Red cell membrane defect - Hb. Abnormalities - Thalassemia - Sickle cell syndrome - Metabolic disorders (G6PD deficiency)		Paediatric Medicine	45 min
9.30-10.15	9.	Hemolytic anemias due to enzymopathies & haemoglobinopathies		Student should have a clear understanding of pathogenesis, clinical presentation and lab diagnosis of G6PD and sickle cell disease.	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							

06-01-2025 Monday							
8.00-8.45	10.	Basic concepts of Community Medicine and Public Health				Community Medicine	45 min
8.45-9.30	11.	Thalassemia		Genetic counseling and special care of patient		Gynecology	45 min
9.30-10.15	12.	Thalassemias		Student should have a clear understanding of pathogenesis, clinical presentation and lab diagnosis of Beta and alpha thalassemia .	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
07-01-2025 Tuesday							
8.00-8.45	13.	Medical indications of splenectomy				surgery	45 min
8.45-9.30	14	Acquired Hemolytic Anemias		• Autoimmune • Drug induced • Alloimmune • Non immune • Mechanical		Paediatric Medicine	45 min
9.30-10.15	15.	PNH and immune haemolytic anaemias		Students should be able to differentiate between different types of immune haemolytic anaemias and should have a clear understanding of their pathogenesis , clinical presentation and lab diagnosis	Robbins Pathology	Pathology	
Hospital work 10:30 a.m. to 2:30 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
08-01-2025 Wednesday							
8.00-8.45	16.	Vertigo				ENT	45 min
8.45-9.30	17.	Orbital Lesions				Eye	45 min

9.30-10.15	18.	Anaemias of diminished erythropoiesis – Iron deficiency anaemia		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of iron deficiency anemia	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
09-01-2025 Thursday							
8.00-8.45	20.	Basic concepts of Community Medicine and Public Health				Community Medicine	45 min
8.45-9.30	21.	Deficiency Anemias (Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		• Iron deficiency • Vit.B 12 • Folic acid		Medicine	45 min
9.30-10.15	22.	Megaloblastic anaemia		Student should have a clear concept of pathogenesis , clinical presentation and lab diagnosis of megaloblastic anaemia	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
10-01-2025 Friday							
8.00-8.45	23.	Fluid & electrolyte abnormalities and interpretation of ABG'S in surgical patients				Surgery	45 min
8.45-9.30	24.	Anemias due to Bone marrow failure (Etiology, Clinical features ,Lab diagnosis & Management)		❖ Aplastic anemia Bone marrow transplantation Etiology, Clinical features ,Lab diagnosis & Management		Oncology	45 min
9.30-10.15	25.	Aplastic anaemia, Pure red cell aplasia and anemia of chronic disease		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of Aplastic anaemia, Pure red cell aplasia and anemia of chronic disease	Robbins Pathology	Pathology	45 min
Hospital work 10:30 to 12:00 p.m.							
11-01-2025 Saturday							
8.00-8.45	26.	Personality Development & impact on Patient interaction			Integrating Behavioral Sciences in	Behavioral sciences	45 min

					Healthcare (AsmaHumayun) Brig MowadatRana book on behavioral sciences		
8.45-9.30	27					Gynecology	45 mins
9.30-10.15	28.	Acute myeloid leukemia,		Students should be able to classify acute myeloid leukemia, should have a clear concept of their pathogenesis and related investigations.	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
13-01-2025 Monday							
8.00-8.45	29.	Otosclerosis				ENT	45 min
8.45-9.30	30.	Health & Disease				Community medicine	45 min
9.30-10.15	31.	Acute lymphoid leukemia		Students should be able to classify acute lymphoid leukemia, should have a clear concept of their pathogenesis and related investigations	Robbins Pathology	Pathology	45 min
Hospital work 10:30 to 2:30 p.m.							
14-01-2025 Tuesday							
8.00-8.45	32.	Surgical ethics		To understand: • The importance of autonomy in good surgical practice • The moral and legal boundaries and practical difficulties of informed consent • Good practice in making decisions about the withdrawal of life-sustaining treatment • The importance and boundaries of confidentiality in surgical practice • The importance of appropriate regulation in surgical research	Surgery	Surgery	45 min

				• The importance of rigorous training and maintenance of good practice standards			
8.45-9.30	33.	Retinoblastoma				Eye	45 min
9.30-10.15	34.	Lymphoid neoplasms. Their classification , B cell NHL (1)		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of B cell NHL and special emphasis on CLL	Robbins Pathology	Pathology	45 min
Hospital work 10:30 to 12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
15-01-2025 Wednesday							
8.00-8.45	35.	Health & Disease				Community medicine	45 min
8.45-9.30	35.	B and T cell NHL (2)		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of B and T cell NHL	Robbins Pathology	Pathology	45 min
9.30-10.15	36.	Lymphoproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		Medicine	45 min
Hospital work 10:30 to 2:30 p.m.							
16-01-2025 Thursday							
8.00-8.45	37.	Hodgkin's lymphoma		Should be familiar with its type, clinical and morphological features.	Robbins Pathology	Pathology	45 min
		Lymphoproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		Medicine	45 min
8.45-9.30	38.	Management of Lymphoproliferative disorders		Management of Lymphoproliferative diseases including adverse effects & complications of Chemotherapy		Oncology	45 min
Hospital work 10:30 to 12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM

Hospital work 10:30 to 12:00 p.m.							
17-01-2025 Friday							
08:00 – 8:45	39.	Health and Disease				Community Medicine	
08:45 – 9:30	40	Multiple Myeloma				Pathology	
9:30 – 10:15	41	Multiple myeloma and Gamma globulin pathis				Medicine	
Hospital work 10:30 to 12:30 p.m.							
18-01-2025 Saturday							
8.00-8.45	42.	Critically ill surgical patient				Surgery	45 min
8.45-9.30	43.	Glomus tumor				ENT	45 min
9.30-10.15	44.	Myeloproliferative disorders- Chronic myeloid leukemia Multiple myeloma		Students should be able to classify various myeloproliferative disorders, should be able to discuss in detail chronic myeloid leukaemia	Robbins Pathology	Pathology	45 min
Hospital work 10:30 to 2:30 p.m.							
20-01-2025 Monday							
8.00-8.45	45.	Myeloproliferative disorders-polycythemia Vera, Essential thrombocythemia and myelofibrosis		students should be able to describe various myeloproliferative disorders and their lab diagnosis	Robbins Pathology	Pathology	45 min
8.45-9.30	46.	Myeloproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		MEDICINE	
9.30-10.15	47.	Management of Myeloproliferative Disorders		❖ Etiology, Clinical features ,Lab diagnosis & Management		Oncology	45 min
Hospital work 10:30 to 02:30 p.m.							
21-01-2025 Tuesday							
8.00 – 8.45	48	Health & Disease				Community Medicine	45 min
8.45 – 9.30	49.	Myelodysplastic syndrome		Student should have a clear concept of myelodysplasia and how to investigate it.	Robbins Pathology	Pathology	45 min

9.30 – 10.15	50.	Myelodysplasia& Stem cell Transplantation		Etiology, Clinical features ,Lab diagnosis & Management		Oncology	45 min
HOSPITAL WORK 10.30-12.00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
22-01-2025 Wednesday							
8.00 – 8.45	51	Immunology				Community medicine	45 min
8.45 9.30	52.	Overview of Bleeding diathesis, its investigation and interpretation		Students should be familiar with various bleeding diathesis and should be able to interpret the findings of related investigations	Robbins Pathology	Pathology	45 min
9.30 – 10.15	53.	Principles of controlling hemorrhage and different tools of trade				Surgery	45 min
HOSPITAL WORK 10.30-02:30 p.m.							
23-01-2025 Thursday							
8.00-8.45	54.	Medicines in Ophthalmology				Eye	
8.45-9.30	55.	Topic not suggested by relevant Department				Anaesthesia	
9.30-10.15	56.	Thrombocytopenia		Students should be able to classify and investigate various types of thrombocytopenias	Robbins Pathology	Pathology	45 min
Hospital work 10:30 to 12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
Hospital work 10:30 to 12:00 p.m.							
24-01-2025 Friday							
8.00-8.45	57.	Topic not suggested by relevant Department				Behavioral Sciences	45 min

8.45-9.30	58.	Inherited and acquired platelet defects.		Students should be able to classify and investigate various types of platelet functional disorders especially Bernard Soulier and Glanzman 's thrombosthenia	Robbins Pathology	Pathology	
9.30-10.15	59.	Platelet disorders		- ITP - Platelet functional disorders		Paediatric MEDICINE	
Hospital work 10:30 to 02:30 p.m.							
25-01-2025 Saturday							
8.00-8.45	66.	Disseminated intra vascular coagulation.		Students should have a clear concept of pathogenesis, clinical presentation and lab investigation of disseminated intra vascular coagulation	Robbins Pathology	Pathology	45 min
8.45-9.30	67.	DIC		Etiology, clinical manifestations, lab work up, differential diagnosis		Medicine	45 min
9.30-10.15	68.	Management of a surgical patient with coagulation disorders & Bleeding disorders				Surgery	45 min
Hospital work 10:30 to 02:30 p.m.							
27-01-2025 Monday							
8.00-8.45	69.	Thrombophilia/ Idiopathic thrombocytopenic purpura		Pathogenesis		Pathology	45 min
8.45-9.30	70.	Thrombosis , Thrombophilia		(Etiology, Clinical manifestations, Lab workup, Differential diagnosis)		MEDICINE	45 min
9.30-10.15	71.	Stroke		Epidemiology, Risk factors, Etiology & Pathogenesis of Ischemic stroke		Neurology	45 min
Hospital work 10:30 to 12:00 p.m.							
28-01-2025 Tuesday							
8.00-8.45	72.	Blood grouping and Blood products and components		Students should develop comprehensive understanding of various blood groups, how to make various components of blood and its products.	Robbins Pathology	Pathology	45 min

8.45-9.30	73.	Blood products used in different hematological conditions				surgery	45 min
9.30-10.15	74.	immunology				Community Medicine	45 min
Hospital work 10:30 to 12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
Hospital work 10:30 to 2:30 p.m.							
29-01-2025 Wednesday							
88.00- 8.45	75.	Vascular malformations				Plastic surgery	45 mins
8.45 – 9.30	76.	Stroke		Investigations and management		Neurology	45 mins
9.30-10.15	77	Blood transfusion reactions (1)		Students should be able to describe in detail various blood transfusion reactions	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 02:30 p.m.							
30-01-2025 Friday Thursday							
8.00 - 8.45	78	Topics not suggested by relevant Department				Community Medicine	45 mins
8.45 – 9.30	79	Topics not suggested by relevant Department				Anesthesia	45 min
9.30 – 10.30	80	Blood transfusion reactions (2)		Students should be able to describe in detail various blood transfusion reactions	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
31-01-2025 Friday							
8.00-8.45	81.	Ocular Side effect of systemic medications				Eye	45 min
8.45-9.30	82.	Von willibrand Disease				Pathology	
9.30-10.15	83.	Immunology				Community Medicine	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							

01-02-2025 Saturday							
8.00-8.45	84	Revision				Community Medicine	45 min
8.45-9.30	85	Revision				Behavioral Sciences	45 min
9.30-10.15	86	Revision				Pathology	45 in

All lectures will be conducted in Maqbool Ahmad Block KEMU.

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1ST INTERMODULE

DURATION **15 DAYS (14-01-2025 to 30-01-2025)**

CONTACT HOURS Lectures =44 hours + Practical's= 44.50 Hours + Hospital stay = 20.5 HOURS

CREDIT HOURS 4

DAY 1 14-01-2025 (TUESDAY)							
8.00 -8.45am	1.	Human Genome		he students should learn about the histone organization, Non coding DNA and RNA and their types	Robbins Pathology	Pathology	45 min
8.45-9.30am	2.	Symptoms of Respiratory system		CASE SCENARIOS: Dyspnoe Cough + Hemoptysis Pleural effusion Pneumonia		Medicine	45 min
9.30-10.15am	3.	Shock				Surgery	45 min
Hospital work 10:30am - 12.00pm							
12.10-02.00pm		PRACTICAL		Batch A :Small group discussions Batch B: Pharmacology Batch C : Medico legal/ autopsy/analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 2 15-01-2025 (WEDNESDAY)							
8.00-8.45am	4.	Pharmacodynamics , receptor antagonism, dose response curve			Basic and clinical pharmacology	Pharmacology	45 min
8.45-9.30am	5.	Cellular housekeeping		The students should know about different cellular constituents and their functions	Robbins pathology	Pathology	45 min
9.30-10.15am	6.	Law courts & courts procedure, medical man as an expert witness				Forensic Medicine	45 min

Hospital work 10:30am - 12.00pm							
12.10-2.00pm		PRACTICAL		Batch B: Small group discussions Batch C: Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 3 16-01-2025 (THURSDAY)							
8.00-8.45am	7	Drug interactions			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30am	8	Gram negative bacteria		E.COLI Pseudomonas klebsiella		ENT	45 min
9.30-10.15am	9	Cell signaling pathways and activation		Signaling pathways, their activation, cell-matrix interactions		Pathology	45 min
Hospital work 10:30am - 12.00pm							
12.10 -02.00pm		PRACTICAL		Batch C: Small group discussions Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 4 17-01-2025(FRIDAY)							
8.00-8.45 am	10.	Medical certification & reporting certification of death, birth,illness,fitness				Forensic medicine	45 min
8.45-9.30am	11.	Factors affecting doses & action of drugs				Pharmacology	45 min
9.30-10.15am	12.	Cellular responses to injury &Adaptations of cellular growth and differentiation		Students should know the difference between Hypertrophy, Hyperplasia,	Robbins Pathology	Pathology	45 min
10.30-12.00pm		Practical		Batch A: Small group discussions Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 5 18-01-2025 (SATURDAY)							
8.00-8.45am	13.	Tissue diagnosis				Surgery	45 min
8.45-9.30am	14.	Common infections in ear, nose & throat		MTB Corneybacteriumdiphtheriae		ENT	45 min

9.30-10.15am	15.	Symptoms of CVS		CASE SCENARIOS: Chest pain (angina, MI) Cardiac failure DVT + atherosclerosis		Medicine	45 min
10:15-11:00am	16.			Forensic Medicine			45 min
11:00-11:45am	17.			Pathology			45 min
11:45-12:30am	18.			Pharmacology			45 min
12.45—2.30pm		Practical		Batch B: Small group discussions Batch C: Pharmacology Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 6 20-01-2025 (MONDAY)							
8.00-8.45am	19.	Symptoms of Gastroenterology		CASE SCENARIOS: Pain abdomen Diarrhea (acute, chronic) Upper GI bleed		Medicine	
8.45-9.30am	20.					Orthopedics	45 min
9.30-10.15am	21.	Cell injury & cell disease		Necrosis, mechanism of cells injuries and clinic-pathological		Pathology	45 min
Hospital work 10:30am - 12.00pm							
12.10-2.00pm		Practical		Batch C : Small group discussions Batch A : Pharmacology Batch B : Medicolegal/autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 7 21-01-2025 (TUESDAY)							
8.00-8.45am	22.	Adaptations of cellular growth and differentiation		Atrophy and Metaplasia		Pathology	45 min
8.45-9.30am	23.	Drug dependence			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
9:30-10:15am	24.	Cell injury and Cell death		Necrosis, Mechanisms of cell injury and clinic pathological correlation		Pathology	45 min

Hospital work 10:30am - 12.00pm							
12.10-02.00pm		PRACTICAL		BATCH A: Small group discussions Pathology Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 8 22-01-2025 (WEDNESDAY)							
8.00-8.45am	25.	Adverse drug affects and drug allergies			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30am	26.	Importance of dying declaration and its recording				Forensic medicine	45 min
9.30-10.15am	27.	Cell injury		Reversible and irreversible injury and mechanisms	Robbins Pathology	Pathology	45 min
Hospital work 10:30am - 12.00pm							
12.10-2.00pm		PRACTICAL		Batch B : Small group discussions Batch C : Pharmacology Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 9 23-01-2025 (THURSDAY)							
8.00-8.45am	28.	Medicolegal systems				Forensic medicine	45 min
8.45-9.30am	29.	Pharmacogenetics & Bioassay			Basic and clinical pharmacology	Pharmacology	45 min
9.30-10.15am	30.	Morphological alterations in cell injury		CASEOUS, FIBRINOID, COAGULATIVE necrosis, Liquefactive necrosis, gangrene		Pathology	45 min
Hospital work 10:30am - 12.00pm							
12.10-2.00pm		PRACTICAL		Batch C : Small group discussions Pathology Batch A: Pharmacology Batch B : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

DAY 10 24-01-2025 (FRIDAY)							
8.00-8.45am	31.	Law in relation to mental health				Forensic medicine	45 min
8.45-9.30am	32.	Introduction to ANS			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45min
9.30-10.15am	33.	APOPTOSIS		MECHANISM		Pathology	45 min
10.30-12.00pm		PRACTICAL		Batch A: Small group discussions Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 11 25-01-2025 (SATURDAY)							
8.00-8.45am	34.	Sterilization				Surgery	45 min
8.45-9.30am	35.	Intracellular accumulations		CALCIFICATION, PIGMENTATION	Robbins Pathology	Pathology	45 min
9.30-10.15am	36.	Cholinergic receptors			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
10:15-11:00am	37.					Pharmacology	45 min
11:00-11:45am	38					Forensic Medicine	45 min
11:45-12:30pm	39.					EYE	45 min
12.45-2.30pm		Practical		Batch B: Small group discussions Batch C: Pharmacology practical Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 12 27-01-2025 (MONDAY)							
8.00-8.45am	40.	PMDC;R IGHTS & Obligations				Forensic medicine	45 min
8.45-9.30am	41.	Genes and human diseases				Pathology	45 min
9.30-10.15am	42.	Blood transfusion				surgery	45 min

Hospital work 10:30am - 12.00pm							
12.10—2.00pm		PRACTICAL		Batch C: Small group discussions Batch A : Pharmacology practical Batch B : Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 13 28-01-2025 (TUESDAY)							
8.00-8.45aM	43.	Professional misconduct, professional confidentiality and exceptions				Forensic Medicine	45 min
8.45-9.30am	44.	Skeletal muscle relaxants				Pharmacology	45 min
9.30-10.15am	45.	Mendelian disorders & Chromosomal disorders				Pathology	45 min
Hospital work 10:30am - 12.00pm							
12.10- 2.00pm		PRACTICAL		Batch A: Small group discussions Batch B: Pharmacology practical Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 14 29-01-2024 (WEDNESDAY)							
8.00-8.45am	46.	Adrenoreceptors agonists		.	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30am	47.	Single gene disorders & Multigenic disorders				PATHOLOGY	45 min
9.30-10.15am	48.	Medical negligence				Forensic medicine	45 min
Hospital work 10:30am - 12.00pm							
12.10-2.00pm		PRACTICAL		Batch B: Small group discussions Batch C: Pharmacology practical Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 15 30-01-2025 (THURSDAY)							
8.00-8.45am	49.	Diagnostic methods for genetic diseases		PCR, DNA sequencing	Robbins pathology	Pathology	
8.45-9.30am	50.	Adrenoreceptors antagonists & ergot alkaloids			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	

9.30-10.15am	51.	Consent; importance in major n minor procedures				Forensic medicine	
Hospital work				10:30am - 12.00pm			
12.10-2.00pm		PRACTICAL		Batch C: Small group discussions Batch A: Pharmacology practical Batch B : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

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TIME TABLE OF 4TH YEAR MBBS (2024-25)

(Blood Vessels & Heart)

Starting Date 03-02-2025 to 15-02-2025

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
03-02-25	Mon	Pathology	Gynecology	Eye	Hospital Work 10:30a.m. – 02:30p.m.		
04-02-25	Tue	Pathology	Pathology	Medicine	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
05-02-25	Wed	Holiday					
06-02-25	Thu	Surgery	ENT	Neurosurgery			
07-02-25	Fri	Cardiac Surgery	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
08-02-25	Sat	Medicine	Community Medicine	Anesthesia	Hospital Work 10:30a.m. – 02:30p.m.		
10-02-25	Mon	Pathology	Medicine	Obstetrics	Hospital Work 10:30a.m. – 02:30p.m.		
11-02-25	Tue	Eye	Surgery	Anesthesia	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
12-02-25	Wed	Surgery	ENT	Neurosurgery	Hospital Work 10:30a.m. – 02:30p.m.		
13-02-25	Thu	ENT	Community Medicine	Eye	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
14-02-25	Fri	Pathology	Cardiology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
15-02-25	Sat	Pathology	Cardiology	Community Medicine			

All lectures will be conducted in Maqbool Ahmad Block of KEMU.

DR. SAFEENA SARFRAZ

Incharge 4th year MBBS

Assistant Professor

Department of Pathology KEMU, Lahore.

PROF. DR. FAIZA BASHIR

Chairperson

Department of Pathology

King Edward Medical University, Lahore.



TIME TABLE OF 4TH YEAR MBBS (2024-25)
(HAEMATOLOGY Module)
Starting Date 02-01-2025 to 01-02-2025

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
02-01-25	Thu	Eye	Community Medicine	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
03-01-25	Fri	Anesthesia	Gynecology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
04-01-25	Sat	Surgery	Pediatric Medicine	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
06-01-25	Mon	Community Medicine	Gynecology	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
07-01-25	Tue	Surgery	Pediatric Medicine	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
08-01-25	Wed	ENT	Eye	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
09-01-25	Thu	Community Medicine	Medicine	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
10-01-25	Fri	Surgery	Oncology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
11-01-25	Sat	Behavioral Sciences	Gynecology	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
13-01-25	Mon	ENT	Community Medicine	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
14-01-25	Tue	Surgery	Eye	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
15-01-25	Wed	Community Medicine	Pathology	Medicine	Hospital Work 10:30a.m. – 02:30p.m.		
16-01-25	Thu	Pathology	Medicine	Oncology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
17-01-25	Fri	Community Medicine	Pathology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
18-01-25	Sat	Surgery	ENT	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
20-01-25	Mon	Pathology	Medicine	Oncology	Hospital Work 10:30a.m. – 02:30p.m.		

21-01-25	Tue	Community Medicine	Pathology	Oncology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
22-01-25	wed	Community Medicine	Pathology	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
23-01-25	Thu	Eye	Anesthesia	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
24-01-25	Fri	Behavioral Sciences	Pathology	Pediatric Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
25-01-25	Sat	Pathology	Medicine	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
27-01-25	Mon	Pathology	Medicine	Neurology	Hospital Work 10:30a.m. – 02:30p.m.		
28-01-25	Tue	Pathology	Surgery	Community Medicine	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
29-01-25	Wed	Plastic Surgery	Neurology	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
30-01-25	Thu	Community Medicine	Anesthesia	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
31-01-25	Fri	Eye	Pathology	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
01-02-25	Sat	Community Medicine	Behavioral Sciences	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		

All lectures will be conducted in old auditorium of KEMU.

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KEMU 4TH YEAR MBBS 2025
1ST INTERMODULE (February, 2025)

DURATION 12 DAYS (17-02-2025 to 01-03-2025)

CONTACT HOURS Lectures 36 =16.5 hours (1) + Practical's + Hospital stay = 44 Hours (0.91)

CREDIT HOURS 2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

TOTAL LECTURES:

Community medicine:

Ophthalmology :

ENT:

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
Monday, 17-02-2025							
8:00-8:45	1.	Topic not specified yet			1.	ENT	45 min
8:45-9:30	2.	Cataract				Ophthalmology	45 min
9:30-10:15	3.	Biostatistics		Measures of Central tendency (Mean, mode, median)	2. Maxcy Public Health and Preventive Medicine 3. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
Hospital work 10.30-2.30							
Tuesday, 18-02-2025							
8:00-8:45	4.	CATARCT		1.	1.	Ophthalmology	45 min
8:45-9:30	5.	Biostatistics		2. Measure of dispersion (Range, Standard deviation, Standard error) 3. Normal curve	2. Maxcy Public Health and Preventive Medicine 3. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
9:30-10:15	6.	Topic not specified yet		•		ENT	45 min
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Community Medicine Lecture (12:00 – 12:45pm)	Practical 12.45—02.30pm
Wednesday, 19-02-2025							
8:00-8:45	7.	GLAUCOMA			1.	OPHTHALMOLOGY	45 min
8:45-9:30	8.	Biostatistics		1. Methods of data presentation (tables, graphs and diagrams)	2. Maxcy Public Health and Preventive Medicine 3. Park's Text Book of Preventive and Social Medicine	Community Medicine	
9:30-10:15	9.	Topic not specified yet				Community Medicine	45 min
	10	HOSPITAL WORK					10.30-2.30

Thursday, 20-02-2025							
8:00-8:45	11	Cataract		▪		EYE	45 min
8:45-9:30	12	Biostatistics		Collection and registration of vital events in Pakistan, sources of health related statistics	Maxcy Public Health and Preventive Medicine Park's Text Bood of Preventive and social Medicine.	COMMUNITY MEDICINE	45 min
9:30-10:15	13	Topic not specified yet				ENT	45 min
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Community Medicine Lecture (12:00 – 12:45pm)	Practical 12.45—02.30pm
Friday, 21-02-2025							
8:00-8:45	14	Biostatistics		Interpretation of data: 1. Z test 2.Chi-square test	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	15	Biostatistics		Interpretation of data: ▪ t-test ▪ dependent sample t test, ▪ independent sample t test ▪ one sample test	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
9:30-10:15	16	Glaucoma				Ophthalmology	45 min
Hospital work 10.30-12.00							
Saturday, 22-02-2023							
8:00-8:45	17	Topic not specified yet		1.	1.	ENT	45 min
8:45-9:30	18	Glaucoma				Ophthalmology	45 min
9:30-10:15	19	Biostatistics		Interpretation of data: 2. ODDS ratio 3. Regression Analysis	2. Maxcy Public Health and Preventive Medicine 3. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
Hospital work 10.30-2.30							
Monday, 24-02-2025							
8:00-8:45	20	Biostatistics		Sampling and its various techniques	1. Maxcy Public Health and Preventive Medicine	Community Medicine	45 min

					2. Park's Text Book of Preventive and Social Medicine		
8:45-9:30	21	Glaucoma				Ophthalmology	45 min
9:30-10:15	22	Topic not specified yet				ENT	45 min
Hospital work 10.30-02.30							
Tuesday 25-02-2025							
8:00-8:45	23	Information, Education and Communication		1. Concept, Aims and objectives 2. Approaches used in public health 3. Contents, principles and stages of health education	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	24	Scleritis				Ophthalmology	45 min
9:30-10:15	25	Topic not specified yet				ENT	45 min
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Community Medicine Lecture (12:00 – 12:45pm)	Practical 12.45—02.30pm
Wednesday 26-02-2025							
8:00-8:45	26	Topic not specified yet				ENT	45 min
8:45-9:30	27	Topic not specified yet				Community Medicine	45 min
9:30-10:15	28	Topic not specified yet				Ophthalmology	45 min
Thursday, 27-02-2025							
8:00-8:45	29					ENT	
8:45-9:30	30					EYE	
9:30-10:15	31	Biostatistics				Community Medicine	
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Community Medicine Lecture (12:00 – 12:45pm)	Practical 12.45—02.30pm
Friday, 28-02-2025							

8:00-8:45	32					EYE	
8:45-9:30	33					Community Medicine	
9:30-10:15	34					ENT	
Saturday, 01-03-2025							
8:00-8:45	35					ENT	
8:45-9:30	36					EYE	
9:30-10:15	37					Community Medicine	

Note: All lectures will be conducted in Maqbool Ahmad Block, KEMU, Lahore

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TIME TABLE OF 4TH YEAR MBBS (2024-25)
1st Intermodule (17th February, 2025 to 1st March, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
17-02-2025	Mon	ENT	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
18-02-2025	Tue	Ophthalmology	Community Medicine	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
19-02-2025	Wed	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
20-02-2025	Thu	EYE	Community Medicine	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
21-02-2025	Fri	Community Medicine	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 12:00 p.m.		
22-02-2025	Sat	ENT	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
24-02-2025	Mon	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30p.m.		
25-02-2025	Tue	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
26-02-2025	Wed	ENT	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 12:00 p.m.		
27-02-2025	Thu	ENT	EYE	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
28-02-2025	Fri	EYE	Community Medicine	ENT	Hospital Work 10:30a.m. – 12:00 p.m.		
01-03-2025	Sat	ENT	EYE	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		

All lectures will be conducted in Maqbool Ahmad Block, KEMU, Lahore.

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KEMU 4th Year MBBS 2025

MODULE

DISEASES OF BLOOD VESSELS AND HEART

DURATION 10 DAYS (03-02-2025 to 15-02-2025)

CONTACT HOURS Lectures 45 =33.75 hours (2.1) + Practical's + Hospital stay = 31.45 Hours (0.6)

CREDIT HOURS 2.7

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of blood vessels and Heart. The interrelated clinical aspects of Medicine, Surgery, Eye, Ear, Nose and Throat and Gynecological problems will also be covered. By the end of the module, the students should be able to:

1. Describe:

Vascular structure and cardiac structure

2. Discuss the Pathological and all clinical aspects of:

- Atherosclerosis
- Hypertensive vascular diseases
- Vasculitis
- Vascular tumors
- Ischemic heart diseases
- Valvular heart diseases
- Cardiomyopathies
- Cardiac tumors

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
Monday 03-02-2025							
08:00-08:45	1	Atherosclerosis		Pathogenesis -Complications of Atherosclerosis		Pathology	45 min
08:45-09:30	2	Changes in physiology of CVS and blood vessels in Pregnancy				Gynecology	45 min
09:30-10:15	3	Clinical features of vascular diseases of Retina and orbit		To know clinical relevance of CVS changes in pregnancy To know how this modifies routine and emergency care of pregnant patients		EYE	45 min
Hospital work 10.30-2.30 p.m.							
Tuesday 04-02-2025							
08:00-08:45	4.	Vacuities		- Buerger disease - Behcet disease - Granulomatous polyangitis		Pathology	45 min
08:45-09:30	5.	Valvular Heart Disorder				Pathology	45 min
09:30-10:15	6.	inherited connective tissue disorders				Medicine	45 min
Hospital work 10.30-12:00							
		PRACTICAL		LECTURE PRACTICAL SMALL GROUP DISCUSSIONS	Community Medicine Lecture 12:00 to 12:45	Respective departments	12:45- 2:30
05-02-2025 (Holiday)							
Wednesday 06-02-2025							
08:00-08:45	7.	Limb ischemia		Acute & chronic		Surgery	45 min
08:45-09:30	8.	Vascular disorders of ENT				ENT	45 min
09:30-10:15	9.	Vascular lesions of brain				Neurosurgery	45 min
Hospital work 10.30-2.30 p.m.							
Friday 07-02-2025							
08:00-08:45	10.	Aneurysms		Clinical presentation and management		Cardiac Surgery	45 min
08:45-09:30	11	Dissecting Aneurysms		Abdominal Thoracic aortic		Pathology	45 min

09: 30-10: 15	12	Vasculitis		• Polyarteritis nodosa • Takayasu arylteritis • Kawasaki arteritis		pathology	45 min
		HOSPITAL WORK		Respective Departments 10.30-12.00 p.m.			
Saturday 08-02-2025							
08:00-08: 45	13.	Coronary artery disease and peripheral vascular disease		Pathophysiology and clinical features		Medicine	45 min
08: 45-09: 30	14.	Environmental/ social factors contributing towards Cardiovascular diseases (1)		Five levels of prevention for hypertension		Community Medicine	
09: 30-10: 15	15.	Anesthesia in cardiovascular diseases		Perioperative management of hypertensive patient		Anesthesia	45 min
HOSPITAL WORK 10.30-2.30 p.m.							
Monday 10-02-2025							
08:00-08: 45	16	Cardiomyopathies		Pathological aspects		Pathology	45 min
08: 45-09: 30	17	Cardiomyopathies		Clinical aspects		Medicine	45 min
09: 30-10: 15	18	Cardiac diseases in pregnancy		-To know common cardiac diseases in pregnant pts. -Effects of pregnancy on preexisting cardiac disease -Antenatal and labor management of pregnant patients		Obstetrics	45 min
Hospital work 10:30-12:00							
Tuesday 11-02-2025							
08:00-08: 45	19	Hypertensive retinopathy				Eye	45 min
08: 45-09: 30	20	Cardiac contusion & cardiac tamponade				SURGERY	45 min
09: 30-10: 15	21	Anesthesia in Ischemic heart disease		Assessment & management, Anaesthetic goals		Anesthesia	45 min
Hospital work 10:30-12:00 p.m.							
		PRACTICAL		PRACTICAL SMALL GROUP DISCUSSIONS	Community Medicine Lecture 12:00-12:45	Respective Departments	12.00—2.30
Wednesday 12-02-2025							
08:00-08: 45	22.	Varicose veins & DVT				Surgery	45 min
08: 45-09: 30	23.	Chemodectoma & cavernous sinus thrombosis				ENT	45 min

09: 30-10: 15	24.	Management of Intra Cranial hematoma		Extradural, Subdural, Intracerebral, intraventricular (causes, manifestation & management)		Neurosurgery	45 min
Hospital work 10.30-2.30 p.m.							
Thursday 13-02-2025							
08:00-08: 45	25.	vertigo				ENT	45 min
08: 45-09: 30	26.	Prevention of CVA				Community medicine	45 min
09: 30-10: 15	27.	Vascular lesions of the Orbit				Eye	45 min
Hospital work 10:30-12:00 p.m.							
		PRACTICAL		Pathology & Community Medicine	Community Medicine Lecture 12:00 – 12:45	Respective departments	12.00—2.30
Friday 14-02-2025							
08:00-08: 45	28.	ISCHEMIC HEART DISEASES		Pathophysiology of IHD		pathology	45 min
08: 45-09: 30	29	ISCHEMIC HEART DISEASES		Clinical aspects of IHD		Cardiology	45 min
09: 30-10: 15	30	Systemic hypertension				Medicine	45 min
HOSPITAL WORK 10.30-12.00							
Saturday 15-02-2025							
08:00-08: 45		Cardiac Tumor		Pathophysiology		Pathology	45 min
08: 45-09: 30		Cardiac Tumor		Clinical Aspect		Cardiology	45 min
09: 30-10: 15		Revision				Community Medicine	45 min

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ENDOCRINE SYSTEM (3rd March, 2025 to 15th March, 2025)

DURATION 12 DAYS

CONTACT HOURS Lectures 22 =16.5 hours (1) + Practical's + Hospital stay = 44 Hours (0.91)

CREDIT HOURS 2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of Endocrine System including Pituitary Thyroid & Parathyroid gland. The interrelated clinical aspects of Medicine, Surgery, Orthopaedics will be covered. The radiological aspects will also be dealt with.

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
03-03-2025 Monday							
8:00 8:45	1	Introduction to Endocrinology				Medicine	45 min
8:45- 9:30	2	Pituitary gland		• Classification of Pituitary Adenomas • Morphological features of various types of Pituitary adenomas • Genetic alterations in Pituitary tumors	Robbins & Cotran	Pathology	45 min
9:30- 10:15	3	Acromegaly and gigantism. Hyperprolactinaemia		• Causes, clinical features, investigation and treatment of Acromegaly. • Causes, clinical features, investigation and treatment of Hyperprolactinaemia.	•Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016	Medicine	45 min

					(LANGE CURRENT Series) 55th Edition		
Hospital work 10.30-2.30							
04-03-2025 Tuesday							
8:00- 8:45	4.	Posterior Pituitary (Diabetes insipidus, SIADH)		- Types, Causes, clinical features, investigation and treatment of Diabetes insipidus. - Causes, clinical features, investigation and treatment of SIADH.	•Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	Medicine	45 min
8:45- 9:30	5.	Hypopituitarism. GROWTH AND ABNORMAL STATURE		- Causes, clinical features, investigation and treatment of Hypopituitarism. - Causes, investigation and treatment of Short Stature	•Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	MEDICINE	45 min
9:30- 10:15	6.	Pituitary lesions in brain				Neuro Surgery	45 min
Hospital work 10.30-11.45							
PRACTICAL						Respective departments	12.00—2.30
05-03-2025 Wednesday							
8:00 8:45	7.	Role of imaging in endocrine lesions				RADIOLOGY	45 min
8:45- 9:30	8.	Hypothyroidism		Causes, clinical features, investigation and treatment of Hypothyroidism.	•Davidson's Principles and	Medicine	45 min

				Myxedema Coma	Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition		
9:30-10:15	9.	Non neoplastic thyroid diseases		Etiology & morphology of Hyperthyroidism Causes of hypothyroidism Cretinism , Myxedema		Pathology	45 min
Hospital work 10.30-2.30							
06-03-2025 Thursday							
8:00 8:45	10.	Hyperthyroidism		Causes, clinical features, investigation and treatment of Hyperthyroidism. Thyroid Crisis	Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	Medicine	45 min
8:45-9:30	11.	Thyroiditis & thyroid neoplasms		Pathogenesis & morphological features of - Hashimotos thyroiditis & Graves disease - Adenomas ,Papillary, Medullary & Follicular carcinomas		Pathology	45 min
9:30-10:15	12.	Lab investigations for pituitary & thyroid Disorders				Pathology	45 min
Hospital work 10.30-11.45							
PRACTICAL						Respective departments	12.00—2.30

07-03-2025 Friday							
8:00-8:45	13.	Thyroid eye disease				Ophthalmology	45 min
8:45-9:30	14	NeuroOphthalmology (Lesions of optic tract)				Ophthalmology	45 min
9:30-10:15	15	Polycystic ovarian disease				Gynaecology	45 min
HOSPITAL WORK 10.30-12.00							
08-03-2024 Saturday							
8:00-8:45	16.	Disorders Of Calcium Metabolism. Hyperparathyroidism. hypoparathyroidism		• Causes of Hypercalcemia. • Types, causes, clinical features, investigation and treatment of Hyperparathyroidism. • Causes of Hypocalcemia. • Causes, clinical features, investigation and treatment of Hypoparathyroidism.	Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	Medicine	45 min
8:45-9:30	17.	Parathyroid glands		Pathogenesis & morphological features of • Primary & Secondary Hyperparathyroidism • Hypoparathyroidism		Pathology	
9:30-10:15	18.	Management of metabolic fractures				Surgery	45 min
HOSPITAL WORK 10.30-2.30							
10-03-2025 Monday							
8:00-8:45	20	Surgery in Diabetes & Diabetic Foot				Surgery	45 min
8:45-9:30	21	Diabetes Mellitus		• Classification, clinical features, complications, investigation and treatment of DM.	•Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition	Medicine	45 min

					•CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition		
9:30-10:15	22	Diabetes Mellitus		- Insulin signaling pathways - Classification - Morphology & pathogenesis of type 1 & type 2 Diabetes Mellitus	Robbins & Cotran	Pathology	45 min
Hospital work 10.30-2.30							
11-03-2025 Tuesday							
8:00-8:45	23	Diabetic retinopathy2		Classification	Robbins & Cotran	Ophthalmology	
8:45-9:30	24.	Diabetic retinopathy 1		Pathophysiology		Ophthalmology	
9:30-10:15	25.	Diabetes Mellitus		Differences btw type 1 & type 2 D.M Morphological features & Pathogenesis of diabetic complications (microvascular, macrovascular)		Pathology	45 min
Hospital work 10.30-11.45							
PRACTICAL						Respective departments	12.00—2.30
12-03-2025 Wednesday							
8:00-8:45	26.	Diabetes Mellitus – Metabolic Emergencies		Diabetic ketoacidosis. Hyperosmolar hyperglycaemic state. Lactic acidosis.	•Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	Medicine	45 min
8:45-9:30	27.	Gestational diabetic Mellitus				Gynaecology	45 min
9:30-	28.	Diabetic retinopathy (3)		Management		Ophthalmology	45 min

10:15							
Hospital work 10.30-2.30							
13-03-2025 Thursday							
8:00-8:45	29.	Diabetic neuropathy				Neurology	45 min
8:45-9:30	30.					Plastic surgery	45 min
9:30-10:15	31.					Community medicine	45 min
Hospital work 10.30-11.45							
PRACTICAL						Respective departments	12.00—2.30
14-03-2025 Friday							
8:00-8:45	32.	• Hyperaldosteronism • Pheochromocytoma		• Causes, clinical features, investigation and treatment of Hyperaldosteronism • Clinical features, investigation and treatment of Pheochromocytoma	• Davidson's Principles and Practice of Medicine 22nd Edition • Kumar and Clark's Clinical Medicine, 8th Edition • CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	Medicine	45 min
8:45-9:30	33	• Adrenal glands		Causes, Pathogenesis & Morphological features of • Cushing's syndrome • Hyperaldosteronism • Congenital adrenal hyperplasia	Robbins & Cotran	Pathology	45 min
9:30-10:15	34	Anesthesia consideration for surgery for pheochromocytoma & Adrenal & thyroid				Anesthesia	45 min
HOSPITAL WORK 10.30-12.00							

15-03-2025 Saturday							
8:00-8:45	35.	Hypoadrenalism		- Causes, clinical features, investigation and treatment of Addison's disease: Primary Hypoadrenalism - Secondary Hypoadrenalism	Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	Medicine	45 min
8:45-9:30	36.	Adrenal glands		Causes, Pathogenesis & Morphological features of Adrenal insufficiency Adrenocortical neoplasms	Robbins & Cotran	Pathology	45 min
9:30-10:15	37.					Surgery	45 min
Hospital Work 10.30-2.30							

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TIME TABLE OF 4TH YEAR MBBS (2024-25)
GASTROINTESTINAL & HEPATOBILIARY SYSTEM Module (14th April, 2025 to 10th May, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
14-04-2025	Mon	Paeds Surgery	Pathology	Surgery	Hospital Work 10:30a.m. – 02:30 p.m.		
15-04-2025	Tue	Community Medicine	Pathology	Surgery	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
16-04-2025	Wed	Pathology	Paederatic Surgery	Medicine	Hospital Work 10:30a.m. – 02:30p.m.		
17-04-2025	Thu	Community Medicine	Surgery	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
18-04-2025	Fri	Pathology	Medicine	Surgery	Hospital Work 10:30a.m. – 12:00p.m.		
19-04-2025	Sat	Community Medicine	Paederatic Surgery	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
21-04-2025	Mon	Radiology	Pathology	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
22-04-2025	Tue	Community Medicine	Paederatic Medicine	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
23-04-2025	Wed	Community Medicine	Psychiatry	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
24-04-2025	Thu	Community Medicine	Medicine	Radiology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
25-04-2025	Fri	Community Medicine	Surgery	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
26-04-2025	Sat	Medicine	Surgery	Oncology	Hospital Work 10:30a.m. – 02:30p.m.		
28-04-2025	Mon	Pathology	Community Medicine	Medicine	Hospital Work 10:30a.m. – 02:30p.m.		
29-04-2025	Tue	Pathology	Pathology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
30-04-2025	Wed	Pathology	Medicine	Community Medicine	Hospital Work 10:30a.m. – 02:30p.m.		

01-05-2024 (Holiday)							
02-05-2025	Fri	Surgery	Pathology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
03-05-2024	Sat	Pathology	Surgery	Oncology	Hospital Work 10:30a.m. – 02:30p.m.		
05-05-2025	Mon	Pathology	Anesthesia	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
06-05-2025	Tue	Pathology	Medicine	Surgery	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
07-05-2025	Wed	Community Medicine	Paeds Medicine	Gynecology	Hospital Work 10:30a.m. – 02:30p.m.		
08-05-2025	Thu	Paed Medicine	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
09-05-2025	Fri	Paeds Surgery	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
10-05-2025	Sat	Gynecology	Medicine	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		

All lectures will be conducted in Maqbool Ahmad Block, KEMU, Lahore.

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MODULE

GASTROINTESTINAL & HEPATOBILIARY SYSTEM

DURATION 23 DAYS 14-04-2025 to 10-05-2025

CONTACT HOURS Lectures 57 =42.75 hours (2.6) + Practicals + Hospital stay = 39.83 Hours (0.7)

CREDIT HOURS 3.3

TEACHING METHODOLOGIES Lectures/ Practical's / small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of congenital anomalies, inflammatory and neoplastic conditions of salivary glands, oral cavity, gastrointestinal tract, liver, gall bladder and pancreas. The interrelated clinical aspects of Medicine, Surgery, Oncology, Radiology and Gynecological problems will also be covered. By the end of the module, the students should be able to:

Discuss the Pathological and Clinical aspects of:

- Sialadenitis
- Leukoplakia
- Barrett oesophagus
- Gastritis/Peptic ulcer
- Benign and malignant tumors of GIT including salivary glands, oral cavity, liver, pancreas and gall bladder
- Congenital anomalies of GIT
- Intestinal obstruction
- Inflammatory bowel disease
- Diarrhea
- Jaundice
- Infectious and autoimmune hepatitis
- Alcoholic and metabolic liver disease
- Cirrhosis
- Cholecystitis& Pancreatitis
- Various related diagnostic & interventional techniques
- Radiological investigations

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
WEEK 1							
Monday 14-04-2025							
8.00-8.45	1.	Congenital diseases of GIT				Paeds Surgery	45 min
8.45-9.30	2.	Inflammation of salivary glands, Benign and malignant tumors		Etiology, pathogenesis and morphology	Robbins & Cotrans	Pathology	45 min
9.30-10.15	3.	Salivary Glands		- Clinical Features - Investigations. - Management	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
		HOSPITAL WORK			Respective departments	10.30-2.30	
Tuesday 15-04-2025							
8.00-8.45	4.	Control of epidemic of GIT diseases		Planning and strategizing of GIT epidemic control	1-Maxcy Public Health and Preventive Medicine. 2-Park's Text Book of Preventive and Social Medicine.	Community Medicine	45 min
8.45-9.30	5.	Infections of oral cavity, Precancerous & cancerous lesions of oral cavity		- Etiology - Oral manifestation of systemic disease	Robbins & Cotrans	Pathology	45 min
9.30-10.15	6.	Pre cancerous and malignant conditions of oral cavity.		- Clinical Features - Investigations. - Management	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
HOSPITAL WORK (10:30 – 12:00)						Community Medicine (Lecture 12:00 – 12:45)	Pathology Practical (12:45-02:30)
Wednesday 16-04-2025							
8.00-8.45	7.	Oesophageal pathologies		- Achalasia - Esophagitis - Barrett Esophagus (GERD) - Oesophageal tumors	Robbins & Cotrans	Pathology	45 min
8.45-9.30	8.	Neonatal Gastrointestinal obstruction		Idiopathic Hypertrophic pyloric stenosis, Small and large bowel atresias, Anorectal malformations, Hirschsprung's disease, Malrotation.	Pediatric Surgery by Jay L Grosfeld volume 7	Paederatic Surgery	45 min

9.30-10.15	9.	Dysphagia, GERD		Dysphagia: Differential Diagnosis GERD: Definition, Clinical Features, Management	• Davidson's Principles and Practice of Medicine 22nd Edition • Kumar and Clark's Clinical Medicine, 8th Edition • CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series)55th Edition	Medicine	45 min	
		HOSPITAL WORK						10.30-2.30
Thursday 17-04-2025								
8.00-8.45	10.	GI parasitic zoonosis of public health importance		Prevention and Control of parasitic zoonosis	1.Maxcy Public Health and Preventive Medicine 2. Park’s Text Book of Preventive and Social Medicine	Community Medicine	45 min	
8.45-9.30	11.	• Carcinoma esophagus. • Achalasia cardia.		• Clinical features. • Investigations. • Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min	
9.30-10.15	12.	Acute and chronic gastritis		Etiology, Pathogenesis and morphology with emphasis on H pylori	Robbins & Cotrans	Pathology	45 min	
		HOSPITAL WORK (10:30-12:00 p.m.)					Community Medicine 12:00- 12:45	Pathology Practical 12:45- 2:30
Friday 18-04-2025								
8.00-8.45	13.	Peptic ulcer Gastric polyp Gastric Tumours		• Etiology,Pathogenesis and morphology • Stress ulcers, pyloric stenosis		Pathology	45 min	

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8.00-8.45	19.	Plain X-Ray Abdomen / Sialography for Salivary glands Barium Swallow/Barium Follow through /Barium Enema		Interpretation		Radiology	45 min
8.45-9.30	20.	Intestinal pathologies-obstruction and diarrhea		- Etiology, pathogenesis and morphology of Ischemic Bowel Disease, Irritable bowel syndrome, Intestinal Obstruction, celiac disease - Causes of diarrhea including Giardiasis and Amoebiasis		Pathology	45 min
9.30-10.15	21.	Intestinal obstruction		- Clinical features. - Investigations. - Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
Hospital work 10.30-2.30							
Tuesday 22-04-2025							
8.00-8.45	22.	Poliomyelitis		Will be able to plan and make strategies to combat Polio and understand the bottle necks in its eradication	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8.45-9.30	23.	Acute Diarrhoea & Celia disease				Paederatic medicine	
9.30-10.15	24.	Diarrhea:Acute		Diarrhea:Acute Causes, Clinical Presentations, Investigations and management	Davidson's Principles and Practice of Medicine 22nd Edition Kumar and Clark's Clinical Medicine, 8th Edition CURRENT Medical Diagnosis and Treatment 2016	Medicine	

					(LANGE CURRENT Series)55th Edition		
Hospital work (10:30-12.00 p.m.)						Community medicine Lecture 12:00-12:45	Pathology Practical 12:45- 2:30 pm.
Wednesday 23-04-2025							
8.00-8.45	25.	Typhoid		Learn about prevention and epidemic control of Typhoid	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	
8.45-9.30	26.	Somatoform disorders		Management		Psychiatry	
9.30-10.15	27.	Inflammatory Bowel Disease and Graft vs host disease		Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
HOSPITAL WORK 10.30-2.00							
Thursday 24-04-2025							
8.00-8.45	28.	Intestinal TB		Understand epidemiology and Public Health significance of intestinal T.B	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8.45-9.30	29.	Diarrhea Chronic: Large Gut. Inflammatory Bowel Disease		Diarrhea, Chronic: Large Gut. Causes, Clinical Presentations. Inflammatory Bowel Disease: Types, Clinical features, Investigations and management.	- Davidson's Principles and Practice of Medicine 22nd Edition - Kumar and Clark's Clinical Medicine, 8th Edition - CURRENT Medical Diagnosis and Treatment 2016 (LANGE	Medicine	45 min

					CURRENT Series)55th Edition		
9.30-10.15	30.	Ultrasound Abdomen – Liver, Pancreas, Spleen C.T. Abdomen / C.T. Head and Neck		Interpretation		Radiology	45 min
HOSPITAL WORK 10:30-12:00						Community medicine 12:00- 12: 45 p.m.	Pathology Practical 12:45- 2:30
Friday 25-04-2025							
8.00-8.45	31.	Cholera		Learn about prevention and epidemic control of Cholera	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8.45-9.30	32.	Inflammatory bowel disease.		- Clinical features. - Investigations. - Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
9.30-10.15	33.	Non- Neoplastic and neoplastic polyps, colorectal Carcinoma		Etiology, Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
Hospital work 10.30-12.00							
Saturday 26-04-2025							
8.00-8.45	34.	Celiac Disease		Diarrhea (Chronic) Small Gut: Malabsorption: Causes, Clinical Presentations Celiac Disease: Clinical Features, Investigations. Management	Davidson's Principles and Practice of Medicine 22nd Edition Kumar and Clark's Clinical Medicine, 8th Edition CURRENT Medical Diagnosis and Treatment 2016 (LANGE	Medicine	45 min

					CURRENT Series) 55th Edition		
8.45-9.30	35.	Pre malignant and malignant conditions of the colon and rectum.		- Clinical features. - Investigations. - Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
9.30-10.15	36.	Colorectal cancers		Screening modalities for colorectal cancers Staging work up and management and targeted therapies in colorectal cancers		Oncology	45 mins
HOSPITAL WORK 10.30-2.30							
Monday 28-04-2025							
8.00-8.45		Liver Pathology				Pathology	
8.45-9.30		Topic not conveyed				Community Medicine	
9.30-10.15		Topic not conveyed				Medicine	
HOSPITAL WORK 10.30-2.30							
Tuesday 29-04-2025							
8.00-8.45	37.	Pattern of hepatocytes response to injury		Reversible and irreversible injury Hepatic Complications Hepatic Encaphalopathy	Robbins & Cotrans	Pathology	45 min
8.45-9.30	39.	Jaundice Cholestasis, LFT's		Classification, causes and pathophysiology, Interpretation of LFTs		Pathology	45 min
		Jaundice Acute Hepatitis		Jaundice. (PreHepatic, Hepatic and Post-Hepatic) Acute Hepatitis: Causes Clinical Presentation (HAV, HEV), Investigation and Management	- Davidson's Principles and Practice of Medicine 22nd Edition - Kumar and Clark's Clinical Medicine, 8th Edition - Current Medical Diagnosis and	Medicine	

					Treatment 2016 (LANGE CURRENT Series) 55 th Edition		
HOSPITAL WORK 10: 30- 12: 00						Community Medicine 12: 00- 12: 45 p.m.	Pathology Practical 12: 45- 2: 30 p.m.
Wednesday 30-04-2025							
8.00- 8.45	43.	Infectious and inflammatory liver disorders		Pathogenesis, Morphology and laboratory diagnosis of Viral hepatitis, Liver abcess, Autoimmune hepatitis		Pathology	45 min
8.45- 9.30	44.	Chronic Hepatitis. Hepatitis B, Hepatitis C		Chronic Hepatitis: Causes. Hepatitis B: Clinical Features, Investigations and Management. Hepatitis C: Clinical Features, Investigations and Management.	- Davidson's Principles and Practice of Medicine 22nd Edition - Kumar and Clark's Clinical Medicine, 8th Edition - CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series)55th Edition	Medicine	45 min
9.30- 10.15	45. 45.	Hydatid disease and Yellow fever		Learn about prevention and control measures of Hydatid Disease and Yellow Fever	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
HOSPITAL WORK 10.30-2.30							
Thursday 01-05-2025 (Holiday)							
Friday 02-05-2025							

8.00-8.45	46.	Portal hypertension.		- Clinical features. - Investigations. - Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
8.45-9.30	47.	Alcoholic and metabolic liver disease, Cirrhosis		Pathophysiology and morphology of - alcoholic liver disease, - Non-alcoholic liver disease, - Wilson's disease, - Haemochromatosis - Cirrhosis		Pathology	45 min
9.30-10.15	48.	Chronic Liver Disease.		Chronic Liver Disease: Causes, Clinical features, Complications, Investigations and Management.	Davidson's Principles and Practice of Medicine 22nd Edition Kumar and Clark's Clinical Medicine, 8th Edition CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series)55th Edition	Medicine	45 min
HOSPITAL WORK 10:30-12:00							
Saturday 03-05-2025							
8.00-8.45	49.	Benign and malignant neoplasms of liver, gall bladder and pancreas		Etiology and Morphology with emphasis on Metastatic liver disease		Pathology	45 min
8.45-9.30	50.	Hepatocellular carcinoma		- Clinical features. - Investigations. - Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
9.30-10.15	51.	Hepatocellular carcinoma , Pancreatic cancer		Staging work up and management of HCC , Pancreatic Adenocarcinoma and Neuroendocrine tumors		Oncology	45 min
HOSPITAL WORK 10.30-2.30							
Monday 05-05-2025							
8.00-8.45	52.	Carcinoma gall bladder		- Clinical features. - Investigations. - Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	

8.45-9.30	53.	Aspiration of gastric contents; causes, prevention and management				Anaesthesia	45 min
9.30-10.15	54.	HIV/AIDS		Will be able to plan and make strategies to control HIV/AIDS and understand the bottle necks in its management	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
HOSPITAL WORK 10.30-2.30							
Tuesday 06-05-2025							
8.00-8.45	55.	Pancreatitis and cholecystitis		- Acute and chronic forms - Etiology, pathogenesis and morphology		Pathology	45 min
8.45-9.30	56.	Pancreatitis. Acute and Chronic.		Pancreatitis: (Acute and Chronic). Clinical Features, Complications , Investigations and management.	Davidson's Principles and Practice of Medicine 22nd Edition Kumar and Clark's Clinical Medicine, 8th Edition CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series)55th Edition	Medicine	
9.30-10.15	57.	Acute and chronic pancreatitis.		- Clinical features. - Diagnosis. - Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
HOSPITAL WORK 10: 30- 12: 00						Community Medicine 12: 00- 12: 45 p.m.	Pathology Practical 12: 45- 2: 30 p.m.
Wednesday 07-05-2025							
8.00-8.45	58	Acute and Chronic Viral Hepatitis		Understand the epidemiology, planning and control measures of acute and chronic viral hepatitis	Maxcy Public Health and	Community Medicine	45 min

					preventive Medicine • Park's Text Book of Preventive and social Medicine		
8.45- 9.30	59	Neonatal Jaundice				Paeds Medicine	45 min
9.30- 10.15	60	Jaundice in Pregnancy HELLP		Management		Gynecology	45 min
HOSPITAL WORK 10.30-2.30							
Thursday 08-05-2025							
8.00- 8.45	61	Revision				Paed- Medicine	45 min
8.45- 9.30	62.	Revision				Community Medicine	45 min
9.30- 10.15	63.	Revision				Community Medicine	45 min
HOSPITAL WORK 10: 30- 12: 00						Community Medicine 12: 00- 12: 45 p.m.	Pathology Practical 12: 45- 2: 30 p.m.
Friday 09-05-2025							
8.00- 8.45	64.	Revision				Paeds Surgery	45 min
8.45- 9.30	65.	Liver Function Test				Pathology	45 min
9.30- 10.15	66.	Liver Function Test				Pathology	45 min
Hospital work 10.30-12.00							
Saturday 10-05-2025							
8.00- 8.45	67	Revision				Gynecology	45 min
8.45- 9.30	68	Revision				Medicine	45 min
9.30- 10.15	69	Revision				Surgery	45 min
HOSPITAL WORK 10.30-2.30							

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TIME TABLE OF 4TH YEAR MBBS (2024-25)

(Respiratory System)

Starting Date 17-03-2025 to 12-04-2025

Date	Day	08:00 – 08:40a.m.	08:40 – 09:20a.m.	09:30 – 10:10a.m.	Hospital Work		Practical
17-03-25	Mon	ENT	Community Medicine	Eye	Hospital Work 09:45a.m. – 01:00p.m.		
18-03-25	Tue	Behavioral Sciences	Pathology	Anesthesia	Hospital Work 09:45a.m. To 11:00 a.m.	Community Medicine Lecture (11:00a.m. To 11:45a.m.)	Practical 11:45p.m. – 1:00p.m.
19-03-25	Wed	Chest Medicine	Pathology	Community Medicine	Hospital Work 09:45a.m. – 01:00p.m.		
20-03-25	Thu	Obstetrics & Gynecology	Pathology	Medicine	Hospital Work 09:45a.m. To 11:00 a.m.	Community Medicine Lecture (11:00a.m. To 11:45a.m.)	Practical 11:45p.m. – 1:00p.m.
21-03-25	Fri	Medicine	Community Medicine	Anesthesia	Hospital Work 09:45a.m. – 12:00p.m.		
22-03-25	Sat	Surgery	ENT	Neurology	Hospital Work 09:45a.m. – 01:00p.m.		
24-03-25	Mon	ENT	Pathology	Community Medicine	Hospital Work 09:45a.m. – 01:00p.m.		
25-03-25	Tue	Pathology Test			Hospital Work 09:45a.m. To 11:00 a.m.	Community Medicine Lecture (11:00a.m. To 11:45a.m.)	Practical 11:45p.m. – 1:00p.m.
26-03-25	Wed	Surgery	Pathology	Community Medicine	Hospital Work 09:45a.m. – 01:00p.m.		
27-03-25	Thu	Chest Medicine	Pathology	Community Medicine	Hospital Work 09:45a.m. To 11:00 a.m.	Community Medicine Lecture (11:00a.m. To 11:45a.m.)	Practical 11:45p.m. – 1:00p.m.
28-03-25	Fri	Obstetrics & Gynecology	Pathology	Eye	Hospital Work 09:45a.m. – 12:00p.m.		
29-03-25	Sat	Chest Medicine	Pathology	Surgery	Hospital Work 09:45a.m. – 01:00p.m.		

09-04-25	Wed	ENT	Community Medicine	Eye	Hospital Work 10:30a.m. – 02:30p.m.		
10-04-25	Thu	Pathology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.	Practical 12:45p.m. – 2:30p.m.
11-04-25	Fri	Surgery	ENT	Neurology	Hospital Work 10:30a.m. – 12:00p.m.		
12-04-25	Sat	Surgery	Pathology	Medicine	Hospital Work 10:30a.m. – 02:30p.m.		

All lectures will be conducted in Maqbool Ahmad Block of KEMU.

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TIME TABLE OF 4TH YEAR MBBS (2023-24)
Female Genital System (12th May, 2025 to 24th May, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
12-05-2025	Mon	Pathology	Pathology	Gynecology	Hospital Work 10:30a.m. – 02:30 p.m.		
13-05-2025	Tue	Gynecology	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
14-05-2025	Wed	Gynecology	Pathology	Oncology	Hospital Work 10:30a.m. – 02:30 p.m.		
15-05-2025	Thu	Gynecology	Gynecology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
16-05-2025	Fri	Gynecology	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00 p.m.		
17-05-2025	Sat	Gynecology	Pathology	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
19-05-2024	Mon	Gynecology	Pathology	Radiology	Hospital Work 10:30a.m. – 02:30p.m.		
20-05-2025	Tue	Gynecology	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
21-05-2025	Wed	Pathology	Pathology	Oncology	Hospital Work 10:30a.m. – 02:30p.m.		
22-05-2025	Thu	Gynecology	Pathology	Urology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
23-05-2025	Fri	Pathology	Surgery	Oncology	Hospital Work 10:30a.m. – 12:00 p.m.		
24-05-2025	Sat	Pathology	Surgery	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		

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TIME TABLE OF 4TH YEAR MBBS (2024-25)
Kidney and Urinary Bladder (26th May, 2025 to 7th June, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
26-05-2025	Mon	Pathology	Pathology	Radiology	Hospital Work 10:30a.m. – 02:30 p.m.		
27-05-2025	Tue	Pathology	Pathology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
28-05-2025	Wed	Medicine	Radiology	Nephrology/ Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
29-05-2025	Thu	Nephrology/ Medicine	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
30-05-2025	Fri	Pathology	Pathology	Medicine/ Nephrology	Hospital Work 10:30a.m. – 12:30 p.m.		
31-05-2025	Sat	Medicine/ Nephrology	Pathology	Pediatric Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
02-06-2025	Mon	Anesthesia	Urology	Urology	Hospital Work 10:30a.m. – 02:30p.m.		
03-06-2025	Tue	Urology	Pathology	Oncology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
04-06-2025	Wed	Urology	Pathology	Pathology	Hospital Work 10:30a.m. – 02:30 p.m.		
05-06-2025	Thu	Urology	Pathology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
06-06-2025	Fri	Nephrology	Urology	Pathology	Hospital Work 10:30a.m. – 12:30 p.m.		
07-06-2025	Sat	Medicine	Urology	Oncology	Hospital Work 10:30a.m. – 02:30 p.m.		

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**TIME TABLE OF 4TH YEAR MBBS (2024-25)
CNS (21st July, 2025 to 26th July, 2025)**

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
21-07-2025	Mon	Neurology	Pathology	Ophthalmology	Hospital Work 10:30a.m. – 02:30 p.m.		
22-07-2025	Tue	Neurology	Neurology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		Practical 12:45p.m. to 02:30p.m.
23-07-2025	Wed	Medicine	Neurology	Pathology	Hospital Work 10:30a.m. – 02:30 p.m.		
24-07-2025	Thu	Neurology	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		Practical 12:45p.m. to 02:30p.m.
25-07-2025	Fri	Neurology	Neurology	Medicine	Hospital Work 10:30a.m. – 12:00 p.m.		
26-07-2025	Sat	Pathology Test			Hospital Work 10:30a.m. – 02:30p.m		

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KEMU 4th Year MBBS 2025

CENTRAL NERVOUS SYSTEM

DATE: 21-07-2025 to 26-07-2025

DURATION 6 DAYS

CONTACT HOURS Lectures 18 =13.5 hours (0.8) + Practical's + Hospital stay = 22 Hours (0.4)

CREDIT HOURS 1.2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of CNS.

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
21-07-2025 Monday							
8:00-8:45	1	Cerebrovascular Accidents Ischemic Stroke		- Definition - Classification /Types - Clinical features - Etiology - Management		Neurology	45 min
8:45-9:30	2	CEREBROVASCULAR DISEASES	•	Pathophysiology & Morphological features of - Cerebral edema, Hydrocephalus - Raised intracranial pressure - Non Haemorrhagic & Haemorrhagic Infarct - Hypertensive CVD	Robbins & Cotran	Pathology	45 min

9:30-10:15	3	3 rd & 4 th nerve Palsy and 6 th nerve palsy				Ophthalmology	45 min
Hospital work 10.30-02.30							
22-07-2025 Tuesday							
8:00-8:45	4.	Hemorrhagic Stroke	- Definition - Risk Factors - Etiology - Management			Neurology	45 min
8:45-9:30	5.	Headache Epilepsy		Types ,clinical approach		Neurology	45 min
9:30-10:15	6.	Prion disease & Degenerative diseases of CNS				Pathology	45 min
Hospital work 10.30-11.45							
		PRACTICAL					12.00—02:30
23-07-2025 Wednesday							
8:00-8:45	7.	Acute Meningitis		Clinical features Etiology Management		Medicine	45 min
8:45-9:30	8.	Dementias/Degenerative brain disorders. - Alzheimer’s disease - Parkinson’s disease				Neurology	45 min
9:30-10:15	9.	Infectious meningitis		- Acute pyogenic - Acute viral - Brain abscess	Robbins & Cotran	Pathology	45 min
Hospital work 10.30-02.30							
24-07-2025 Thursday							
8:00-8:45	10.	Chronic Meningitis		- Clinical features - Etiology - Management		Neurology	45 min
8:45-9:30	11.	Chronic meningitis		- Chronic bacterial (T.B, neurosyphilis, Lyme’s disease) - Chronic Viral (HSV, HIV, CMV, RABIES, Poliomyelitis) - Fungal meningitis	Robbins & Cotran	Pathology	45 min
9:30-10:15	12.	Tumors of CNS		- Gliomas - Meningiomas		Pathology	45 min

Hospital work 10.30-11:45							
		PRACTICAL					12.00—02:30
25-07-2025 Friday							
8:00-8:45		Revision CNS Tumor				Neurology	45 min
8:45-9:30		Revision CNS Tumor				Neurology	45 min
9:30-10:15		CNS tumors				Medicine	45 min
Hospital work: 10.30-12:30							
26-07-2025 Saturday							
8:00-8:45							45 min
8:45-9:30		Pathology Test					45 min
9:30-10:15							45 min

All lectures will be conducted in Maqbool Ahmad Block, KEMU, Lahore.

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KEMU 4th Year MBBS 2025
TIME TABLE OF 4TH YEAR MBBS (2024-25)
3rd Intermodule (28th July, 2025 to 9th August, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
28-07-2025	Mon	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30 p.m.		
29-07-2025	Tue	Ophthalmology	Pathology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
30-07-2025	Wed	Plastic Surgery	Pathology	ENT	Hospital Work 10:30a.m. – 12:00p.m.		
31-07-2025	Thu	Plastic Surgery	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
01-08-2025	Fri	Plastic Surgery	Pathology	ENT	Hospital Work 10:30a.m. – 12:30 p.m.		
02-08-2025	Sat	Plastic Surgery	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30 p.m.		
04-08-2025	Mon	Plastic Surgery	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30p.m.		
05-08-2025	Tue	ENT	Ophthalmology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
06-08-2025	Wed	Community Medicine	Ophthalmology	Pathology	Hospital Work 10:30a.m. – 02:30 p.m.		
07-08-2025	Thu	Pathology	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
08-08-2025	Fri	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:30 p.m.		
09-08-2025	Sat	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30 p.m.		

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KEMU 4th Year MBBS 2025

3RD INTERMODULE, 2024-25

DURATION 12 DAYS (28-July, 2025 to 9th August, 2025)

CONTACT HOURS Lectures 22 =16.5 hours (1) + Practical's + Hospital stay = 44 Hours (0.91)

CREDIT HOURS 2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

NOTE: NOT SPECIFIED YET refers to that the contents haven't been specified or conveyed upto now. So please you can cover the remaining syllabus in these lectures whatever is required.

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
28-07-2025 Monday							
8:00-8:45	1	Not specified yet				Community Medicine	45 min
8:45-9:30	2	Not specified yet		•		Ophthalmology	45 min
9:30-10:15	3	Not specified yet				ENT	45 min
Hospital work				10.30-2.30			
29-07-2025 Tuesday							
8:00-8:45	4.	Not specified yet				Ophthalmology	45 min
8:45-9:30	5.	Breast (1)				Pathology	45 min
9:30-10:15	6.	Not specified yet				ENT	45 min
Hospital work				10.30-11.45			
		PRACTICAL		OVERVIEW PRACTICAL		Respective departments	12.00—2.30

				SMALL GROUP DISCUSSIONS			
30-07-2025 Wednesday							
8:00-8:45	7.	Not specified yet				Plastic surgery	45 min
8:45-9:30	8.	Breast (2)				Pathology	45 min
9:30-10:15	9.	Not specified yet				ENT	45 min
Hospital work 10.30-2.30							
31-07-2025 Thursday							
8:00-8:45	10.	Not specified yet				Plastic surgery	45 min
8:45-9:30	11.	Not specified yet				Ophthalmology	45 min
9:30-10:15	12.	Not specified yet				ENT	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
01-08-2025 Friday							
8:00-8:45	13.	Not specified yet				Plastic surgery	45 min
8:45-9:30	14	Breast (3)				Pathology	45 min
9:30-10:15	15	Not specified yet				ENT	45 min
		HOSPITAL WORK				Respective departments	10.30-12.00
02-08-2025 Saturday							
8:00-8:45	16.	Not specified yet				Plastic surgery	45 min
8:45-9:30	17.	Not specified yet				Ophthalmology	
9:30-10:15	18.	Not specified yet				ENT	45 min
HOSPITAL WORK 10.30-2.30							
04-08-2025 Monday							
8:00-8:45	20	Not specified yet				Plastic surgery	45 min
8:45-9:30	21	Not specified yet				Ophthalmology	45 min
9:30-	22	Not specified yet				ENT	45 min

10:15							
Hospital work 10.30-2.30							
05-08-2025 Tuesday							
8:00-8:45	23.	Not specified yet				ENT	45 min
8:45-9:30	24.	Not specified yet				Ophthalmology	45 min
9:30-10:15	25	Breast (4)				Pathology	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Respective departments	12.00—2.30
06-08-2025 Wednesday							
8:00-8:45	26.	Not specified yet				Community Medicine	45 min
8:45-9:30	27.	Not specified yet				Ophthalmology	45 min
9:30-10:15	28.	Skin (1)				Pathology	45 min
Hospital work 10.30-2.30							
07-08-2025 Thursday							
8:00-8:45	29.	Skin (2)				Pathology	45 min
8:45-9:30	30.	Not specified yet				Ophthalmology	45 min
9:30-10:15	31.	Not specified yet				ENT	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
08-08-2025 Friday							
8:00-8:45	32.	Not specified yet				Community Medicine	45 min
8:45-9:30	33	Not specified yet				Ophthalmology	45 min
9:30-10:15	34	Not specified yet				ENT	45 min
HOSPITAL WORK 10.30-12.00							
09-08-2025 Saturday							
8:00-8:45	35.	Not specified yet				Community Medicine	45 min

8:45-9:30	36.	Not specified yet				Ophthalmology	
9:30-10:15	37.	Not specified yet				ENT	45 min
HOSPITAL WORK 10.30-2.30							

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KEMU 4th Year MBBS 2025

2nd INTERMODULE, (Session 2024-25)

DURATION 12 DAYS (10-07-2025 to 19-07-2025)

CONTACT HOURS Lectures 22 =16.5 hours (1) + Practical's + Hospital stay = 44 Hours (0.91)

CREDIT HOURS 2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
10-07-2025 Thursday							
8:00-8:45	1.	Research Epidemiology and Disease Control		Basic measurements in epidemiology (morbidity, mortality, disability and fatality).	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	2.	Clinical evaluation of Strabismus				Ophthalmology	45 min
9:30-10:15	3.					ENT	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Community Medicine		Respective departments	12.00—2.30

11-07-2025 Friday							
8:00-8:45	4.	Research Epidemiology and Disease Control		1. Screening for disease. 2. Community diagnosis 3. Research and survey methodology	4. Maxcy Public Health and Preventive Medicine 5. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	5.	Management of Strabismus		•		Ophthalmology	45 min
9:30-10:15	6.			•		ENT	45 min
Hospital work 10.30-12.30							
12-07-2025 Saturday							
8:00-8:45	07.	Introduction to Strabismus		1.	1.	Ophthalmology	45 min
8:45-9:30	08.	Research Epidemiology and Disease Control		Research Methodology General Epidemiology. Background, concepts and uses	Maxcy Public Health and Preventive Medicine Park's Text Book of Preventive and Social Medicine	Community Medicine	
9:30-10:15	09.					Community medicine	45 min
Hospital work 10.30-02.30							
14-07-2025 Monday							
8:00-8:45	10.	Research Epidemiology and Disease Control		Control Of Infection 1. Controlling the reservoir-notification 2.Early diagnosis and prompt treatment 3.isolation 4.quarantine, disinfections 5. Interruption of transmission		Community Medicine	45 min
8:45-9:30	11.	Research Epidemiology and Disease Control		Prevention and control of infectious diseases	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
9:30-10:15	12.	Amblyopia, corneal ulcers				Ophthalmology	45 min
Hospital work 10.30-02.30							

15-07-2025 Tuesday							
8:00-8:45	13.	Research Epidemiology and Disease Control		Control of Infection 1. The susceptible host (active and passive immunization, 1. Combined, Chemoprophylaxis 2. non-specific measures) Health advice to travelers 4. National case management guidelines	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	14.	Research Epidemiology and Disease Control		Dynamics of Infectious Disease Transmission 1. Reservoir and source of infection. 2. Escape of organism 3. Mode of transmission 4. Entry into the body 5. Susceptible host 6. Immunity (different types of immunity and immunization)	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
9:30-10:15	15.	Corneal ectasia				Ophthalmology	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Community Medicine		Respective departments	12.00—2.30
16-07-2025 Wednesday							
8:00-8:45	16.	Research Epidemiology and Disease Control		Epidemiology, control and prevention of infectious diseases of Public Health Importance 1-Respiratory infections 2-Diseases transmitted through feco-oral route	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
	17.	Errors of refraction				Ophthalmology	45 min
	18.					ENT	45 min
Hospital work 10.30-02:30							
17-07-2025 Thursday							
8:00-8:45	19.	Research Epidemiology and Disease Control		Epidemiology, control and prevention of infectious diseases of Public Health Importance: 1. Arthropod borne diseases	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min

				2. Diseases of animals conveyed to man 3. Diseases due to direct contact			
8:45-9:30	20.	Management of errors of refraction				Ophthalmology	45 min
9:30-10:15	21.					ENT	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Community Medicine		Respective departments	12.00—2.30
18-07-2025 Friday							
8:00-8:45	22.	Research Epidemiology and Disease Control		Epidemiology control and prevention of non-infectious diseases of Public Health Importance	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	23.	Evaluation of watery eyes, Nasolacrimal duct blockage				Ophthalmology	
9:30-10:15	24.	Extropia				Ophthalmology	45 min
HOSPITAL WORK 10.30-12.00							
19-07-2025 Saturday							
8:00-8:45	25.	Research Epidemiology and Disease Control		Epidemiological methods (descriptive, analytical and experimental).	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	26.	Esotropia				Ophthalmology	45 min
9:30-10:15	27.					ENT	45 min
Hospital work 10.30-02.30							

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KEMU4TH YEAR MBBS 202
TIME TABLE OF 4TH YEAR MBBS (2024-25)
2nd Intermodule (10th July, 2025 to 19th July, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
10-07-2025	Thu	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
11-07-2025	Fri	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00 p.m.		
12-07-2025	Sat	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
14-07-2025	Mon	Community Medicine	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 02:30 p.m.		
15-07-2025	Tue	Community Medicine	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
16-07-2025	Wed	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30 p.m.		
17-07-2025	Thu	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
18-07-2025	Fri	Community Medicine	Ophthalmology	Ophthalmology	Hospital Work 10:30a.m. – 12:00 p.m.		
19-07-2025	Sat	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30 p.m.		

All lectures will be conducted in Maqbool Ahmad Block KEMU, Lahore.

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MODULE

Female & Male genital System

DURATION 18 DAYS (12-05-2025 to 24-05-2025)

CONTACT HOURS Lectures 39 =29.25 hours (1.7) + Practicals + Hospital stay = 27.2 Hours (0.4)

CREDIT HOURS 2.1

TEACHING METHODOLOGIES Lectures/ Practicals / small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of Etiology, Pathogenesis and Morphology of diseases related to male and female genital System. The interrelated clinical aspects of Medicine, Surgery/Urology, Oncology, Radiology and Gynecological problems will also be covered. By the end of the module, the students should be able to:

Discuss the Pathological and Clinical aspects of:

- Pelvic inflammatory disease
- Benign and malignant lesions of vulva, cervix, vagina , ovaries and uterus
- Gestational and Placental disorders
- Benign and malignant neoplasms of prostate
- Inflammatory and neoplastic lesions of testes
- Various related diagnostic & interventional techniques
- Radiological investigations

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
Monday 12-05-2025							
8.00-8.45	1.	Female genital tract introduction, Pelvic inflammatory disease		Anatomy of genital tract Etiology, Pathogenesis & Morphology of PID	Robbins & Cotrans	Pathology	45 min
8.45-9.30	2.	Vulval pathologies		Etiology, Pathogenesis & Morphology of Bartholian cyst, Non-neoplastic and neoplastic lesions	Robbins & Cotrans	Pathology	45 min
9.30-10.15	3.	PID		Presentation and management of PID		Gynecology	45 min
Hospital work 10.30-2.30							
Tuesday 13-05-2025							
8.00-8.45	4.	Vulval pathologies		Presentation and management of Benign and malignant of disease of vulva		Gynecology	45 min
8.45-9.30	5.	Inflammatory diseases of cervix		Etiology, Pathogenesis & Morphology of acute & chronic cervicitis, endocervical polyp		Pathology	45 min
9.30-10.15	6.	Vaginal Pathologies		Etiology, Pathogenesis & Morphology of pre-malignant and malignant lesions	Robbins & Cotrans	Pathology	45 min
Hospital work 10.30-11.45							
		PATHOLOGY PRACTICAL				Respective departments	12.00—2.30
Wednesday 14-05-2025							
8.00-8.45	7.	Vaginal Pathologies		Presentation and management of vaginal pathologies		Gynecology	45 min
8.45-9.30	8.	pre-malignant and malignant lesions of cervix		Etiology, Pathogenesis & Morphology of CIN, Squamous cell carcinoma	Robbins & Cotrans	Pathology	45 min
9.30-10.15	9.	Prevention and Early detection and treatment Cervical Cancers		Vaccination against HPV, screening guidelines, role of radiation therapy	Robbins & Cotrans	Oncology	45 min
Hospital work 10.30-2.30							
Thursday 15-05-2025							
8.00-8.45	10.	Cervical pathologies		Presentation and treatment of cervicitis + cervical polyp		Gynaecology	45 min
8.45-9.30	11.	Dating of Endometrium		Morphological changes during menstrual cycle		Gynaecology	45 min

9.30-10.15	12.	Functional endometrial disorders/Dysfuctional uterine bleeding		Pathogenesis and morphology of - Anovulatory cycle - Acute &chronic endometritis - Adenomyosis - Endometriosis		Pathology	45 min	
Hospital work 10.30-11.45								
		PATHOLOGY PRACTICAL					Respective departments	12.00—2.30
Friday 16-05-2025								
8.00-8.45	13.	Uterine pathologies		Presentation and management of adenomyosis + endometriosis		Gynaecology	45 min	
8.45-9.30	14.	Endometrial polyp and hyperplasia		Etiology, Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min	
9.30-10.15	15.	Laboratory diagnosis of various Gynaecological disorders		Interpretation of LH,FSH,LH:FSH, Testosterone	Robbins & Cotrans	Pathology	45 min	
Hospital work 10.30-12.00								
Saturday 17-05-2025								
8.00-8.45	16.	Endometrial pathologies		Presentation and management of endometrial polyps + hyperplasia		Gynaecology	45 min	
8.45-9.30	17	Endometrial carcinoma		Etiology, Pathogenesis & Morphology	Robbins &Cotrans	Pathology	45 min	
9.30-10.15	18.	Endometrial stromal tumors		Etiology, Pathogenesis & Morphology	Robbins &Cotrans	Pathology	45 min	
Hospital work 10.30-2.30								
Monday 19-05-2025								
8.00-8.45	19	Endometrial pathologies		Presentation and treatment of endometrial CA + fibroid		Gynaecology		
8.45-9.30	20.	Benign and Malignant tumors of myometrium		Etiology, Pathogenesis & Morphology	Robbins &Cotrans	Pathology	45 min	
9.30-10.15	21.	Evaluation of Genital Pathologies				Radiology	45 min	
Hospital work 10.30-2.30								

Tuesday 20-05-2025							
8.00-8.45	25.	Ovarian tumors PCOS		Presentation and management of ovarian tumors & PCOS		Gynecology	45 min
8.45-9.30	26.	Ovarian tumors		Classification & Frequency	Robbins & Cotrans	Pathology	45 min
9.30-10.15	27.	Surface epithelial tumors Follicular and Luteal Cyst		Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
Hospital work 10.30-12:00							
PATHOLOGY PRACTICAL						Respective departments	12.00—2.30
HOSPITAL WORK 10.30-2.30							
Wednesday 21-05-2025							
8.00-8.45	28.	Sex cord stromal and Germ cell tumors		Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
8.45-9.30	29.	Gestational and Placental disorders		Pathogenesis and Morphology of ectopic pregnancy and Gestational Trophoblastic Disease	Robbins & Cotrans	Pathology	45 min
9.30-10.15	30.	Germ Cell tumors		Staging, biomarkers and Management of Germ cell tumors in males and Females		Oncology	45 min
Hospital work 10.30-02.30							
Thursday 22-05-2025							
8.00-8.45	31.			Presentation and management of Ectopic + GTT		Gynaecology	45 min
8.45-9.30	32.	Inflammatory lesions of prostate and Benign prostatic hyperplasia		Pathogenesis and Morphology	Robbins & Cotrans	Pathology	45 min
9.30-10.15	33.	BPH clinical features and investigations				Urology	45 min
Hospital work 10.30-11.45							
		PATHOLOGY PRACTICAL				Respective departments	12.00—2.30
Friday 23-05-2025							
8.00-8.45	34.	Carcinoma of prosatate		Etiology, Pathogenesis , Morphology and Staging	Robbins & Cotrans	Pathology	45 min
8.45-9.30	35.	Carcinoma of prosatate				Surgery	45 min

9.30-10.15	36.	Carcinoma of prostate		Principals of Androgen Deprivation therapy (ADT) and management of Castration resistant Prostate cancer (CRPC)		Oncology	45 mins
Hospital work 10.30-11.45							
Saturday 24-05-2025							
8.00-8.45	37.	Neoplastic lesions of testes		Classification, Pathogenesis and Morphology	Robbins & Cotrans	Pathology	45 min
8.45-9.30	38.	Carcinoma Testes				Surgery	45 min
9.30-10.15	39.	Non-neoplastic lesions of testes		Pathogenesis and Morphology of congenital anomalies, inflammatory and vascular lesions of testes	Robbins & Cotrans	Pathology	45 min
Hospital work 10.30-2.30							

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TIME TABLE OF 4TH YEAR MBBS (2024-25)
Musculoskeletal System (11th August, 2025 to 30th August, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
11-08-2025	Mon	Orthopedics	Pathology	Radiology	Hospital Work 10:30a.m. – 02:30 p.m.		
12-08-2025	Tue	Medicine	Radiology	Orthopedics	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
13-08-2025	Wed	Medicine	Orthopedics	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
14-08-2025	Thu	HOLIDAY					
15-08-2025	Fri	Surgery	Radiology	Pathology	Hospital Work 10:30a.m. – 12:30 p.m.		
16-08-2025	Sat	Surgery	Medicine	Radiology	Hospital Work 10:30a.m. – 02:30 p.m.		
18-08-2025	Mon	Pathology	Orthopedics	Medicine	Hospital Work 10:30a.m. – 02:30p.m.		
19-08-2025	Tue	Orthopedics	Medicine	Radiology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
20-08-2025	Wed	Surgery	Medicine	Pathology	Hospital Work 10:30a.m. – 02:30 p.m.		
21-08-2025	Thu	Pathology	Orthopedics	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
22-08-2025	Fri	Pathology	Radiology	Surgery	Hospital Work 10:30a.m. – 12:30 p.m.		
23-08-2025	Sat	Oncology	Surgery	Orthopedics	Hospital Work 10:30a.m. – 02:30 p.m.		
25-08-2025	Mon	Orthopedics	Radiology	Surgery	Hospital Work 10:30a.m. – 02:30 p.m.		
26-08-2025	Tue	Medicine	Orthopedics	Radiology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
27-08-2025	Wed	Surgery	Medicine	Orthopedics	Hospital Work 10:30a.m. – 02:30 p.m.		
28-08-2025	Thu	Pathology	Surgery	Radiology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
29-08-2028	Fri	Medicine	Oncology	Orthopedics	Hospital Work 10:30a.m. – 12:30 p.m.		
30-08-2025	Sat	Oncology	Surgery	Radiology	Hospital Work 10:30a.m. – 02:30 p.m.		

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Chairperson
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King Edward Medical University,
Lahore.



TIME TABLE OF 4TH YEAR MBBS (2024-25)
4th Intermodule (1st September, 2025 to 20th September, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
01-09-2025	Mon	Behavioral Sciences	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
02-09-2025	Tue	Community Medicine	Ophthalmology	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
03-09-2025	Wed	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.		
04-09-2025	Thu	Behavioral Sciences	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
05-09-2025	Fri	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:30 p.m.		
06-09-2025	Sat	Holiday			Hospital Work 10:30a.m. – 02:30 p.m.		
08-09-2025	Mon	Community Medicine	Ophthalmology	Behavioral Sciences	Hospital Work 10:30a.m. – 02:30p.m.		
09-09-2025	Tue	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
10-09-2025	Wed	Behavioral Sciences	Community Medicine	Ophthalmology			
11-09-2025	Thu	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
12-09-2025	Fri	Community Medicine	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:30 p.m.		
13-09-2025	Sat	Ophthalmology	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:30 p.m.		
15-09-2025	Mon	ENT	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:30 p.m.		
16-09-2025	Tue	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
17-09-2025	Wed	Community Medicine	ENT	ENT	Hospital Work 10:30a.m. – 12:30 p.m.		

18-09-2025	Thu	ENT	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
19-09-2025	Fri	Pathology Test	Pathology Test	Pathology Test	Hospital Work 10:30a.m. – 12:30 p.m.		
20-09-2025	Sat	Community Medicine	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 12:30 p.m.		

All lectures will be conducted in Maqbool Ahmad Block, KEMU, Lahore.

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TIME TABLE OF 4TH YEAR MBBS (2024-25)
4th Intermodule (1st September, 2025 to 20th September, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
01-09-2025	Mon	Behavioral Sciences	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
02-09-2025	Tue	Community Medicine	Ophthalmology	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
03-09-2025	Wed	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.		
04-09-2025	Thu	Behavioral Sciences	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
05-09-2025	Fri	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:30 p.m.		
06-09-2025	Sat	Holiday			Hospital Work 10:30a.m. – 02:30 p.m.		
08-09-2025	Mon	Community Medicine	Ophthalmology	Behavioral Sciences	Hospital Work 10:30a.m. – 02:30p.m.		
09-09-2025	Tue	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
10-09-2025	Wed	Behavioral Sciences	Community Medicine	Ophthalmology			
11-09-2025	Thu	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
12-09-2025	Fri	Community Medicine	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:30 p.m.		
13-09-2025	Sat	Ophthalmology	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:30 p.m.		
15-09-2025	Mon	ENT	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:30 p.m.		
16-09-2025	Tue	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
17-09-2025	Wed	Community Medicine	ENT	ENT	Hospital Work 10:30a.m. – 12:30 p.m.		

18-09-2025	Thu	ENT	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
19-09-2025	Fri	Pathology Test	Pathology Test	Pathology Test	Hospital Work 10:30a.m. – 12:30 p.m.		
20-09-2025	Sat	Community Medicine	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 12:30 p.m.		

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TIME TABLE OF 4TH YEAR MBBS (2024-25)
Core Recall (22nd September, 2025 to 22nd October, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
22-09-2025	Mon	Surgery	Surgery	Orthopedics	Hospital Work 10:30a.m. – 02:30 p.m.		
23-09-2025	Tue	Urology	Gynecology	Gynecology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
24-09-2025	Wed	Pathology	Pathology	Pathology	Hospital Work 10:30a.m. – 02:30 p.m.		
25-09-2025	Thu	ENT	ENT	Eye	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
26-09-2025	Fri	Community Medicine	Community Medicine	Eye	Hospital Work 10:30a.m. – 12:00 p.m.		
27-09-2025	Sat	Eye	Eye	ENT	Hospital Work 10:30a.m. – 02:30p.m		
29-09-2025	Mon	Radiology	Radiology	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
30-09-2025	Tue	Eye	Medicine	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
01-10-2025	Wed	Pathology	Pathology	Oncology	Hospital Work 10:30a.m. – 02:30p.m.		
02-10-2025	Thu	ENT	ENT	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
03-10-2025	Fri	Pathology	Pathology	Plastic Surgery	Hospital Work 10:30a.m. – 12:00 p.m.		
04-10-2025	Sat	Pathology	Pathology	Neurology	Hospital Work 10:30a.m. – 02:30p.m.		
06-10-2025	Mon	ENT	Eye	Community Medicine	Hospital Work 10:30a.m. – 02:30p.m.		
07-10-2025	Tue	Behavior Sciences	Nephology/ Medicine	Urology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
08-10-2025	Wed	Gynecology	Gynecology	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
09-10-2025	Thu	Oncology	Radiology	Pedes Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
10-10-2025	Fri	Psychiatry	Psychiatry	Pedes Medicine	Hospital Work 10:30a.m. – 12:00 p.m.		

11-10-2025	Sat	Community Medicine	Community Medicine	ENT	Hospital Work 10:30a.m. – 02:30p.m.		
13-10-2025	Mon	Medicine	Medicine	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
14-10-2025	Tue	Radiology	Oncology	Pedes Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
15-10-2025	Wed	Anesthesia	Behavior Sciences	Psychiatry	Hospital Work 10:30a.m. – 02:30p.m.		
16-10-2025	Thu	Surgery	Surgery	Neurology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
17-10-2025	Fri	Medicine	Surgery	Psychiatry	Hospital Work 10:30a.m. – 12:00 p.m.		
18-10-2025	Sat	Medicine	Pedes Medicine	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
20-10-2025	Mon	Psychiatry	Surgery	Radiology	Hospital Work 10:30a.m. – 02:30p.m.		
21-10-2025	Tue	Plastic Surgery	Orthopedics	Gynecology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
22-10-2025	Wed	Medicine	Nephrology	Urology	Hospital Work 10:30a.m. – 02:30p.m.		

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Core Recall, 2024-25

DURATION 27 DAYS (22-September, 2025 to 22nd October, 2025)

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

NOTE: Please cover the remaining syllabus in these lectures whatever is required.

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
22-09-2025 Monday							
8:00-8:45	1					Surgery	45 min
8:45-9:30	2					Surgery	45 min
9:30-10:15	3					Orthopedics	45 min
Hospital work					10.30-2.30		
23-09-2025 Tuesday							
8:00-8:45	4.					Urology	45 min
8:45-9:30	5.					Gynecology	45 min
9:30-10:15	6.					Gynecology	45 min
Hospital work					10.30-11.45		
		PRACTICAL		OVERVIEW PRACTICAL SMALL GROUP DISCUSSIONS		Respective departments	12.00—2.30

24-09-2025 Wednesday							
8:00-8:45	7.					Pathology	45 min
8:45-9:30	8.					Pathology	45 min
9:30-10:15	9.					Pathology	45 min
Hospital work				10.30-2.30			
25-09-2025 Thursday							
8:00-8:45	10.					ENT	45 min
8:45-9:30	11.					ENT	45 min
9:30-10:15	12.					Eye	45 min
Hospital work				10.30-11.45			
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
26-09-2025 Friday							
8:00-8:45	13.					Community Medicine	45 min
8:45-9:30	14					Community Medicine	45 min
9:30-10:15	15					Eye	45 min
HOSPITAL WORK 10.30-12.00							
27-09-2025 Saturday							
8:00-8:45	16.					Eye	45 min
8:45-9:30	17.					Eye	
9:30-10:15	18.					ENT	45 min
HOSPITAL WORK 10.30-2.30							

29-09-2025 Monday							
8:00-8:45	19					Radiology	45 min
8:45-9:30	20					Radiology	45 min
9:30-10:15	21					Surgery	45 min
Hospital work				10.30-2.30			
30-09-2025 Tuesday							
8:00-8:45	22.					Eye	45 min
8:45-9:30	23.					Medicine	45 min
9:30-10:15	24					Medicine	45 min
Hospital work				10.30-11.45			
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Respective departments	12.00—2.30
01-10-2025 Wednesday							
8:00-8:45	25.					Pathology	45 min
8:45-9:30	26.					Pathology	45 min
9:30-10:15	27.					Oncology	45 min
Hospital work				10.30-2.30			
02-10-2025 Thursday							
8:00-8:45	28.					ENT	45 min
8:45-9:30	29.					ENT	45 min
9:30-10:15	30.					Community Medicine	45 min
Hospital work				10.30-11.45			

		PRACTICAL		Community medicine		Respective departments	12.00—2.30
03-10-2025 Friday							
8:00-8:45	31.					Pathology	45 min
8:45-9:30	32					Pathology	45 min
9:30-10:15	33					Plastic Surgery	45 min
HOSPITAL WORK 10.30-12.00							
04-10-2025 Saturday							
8:00-8:45	34.					Pathology	45 min
8:45-9:30	35.					Pathology	45 min
9:30-10:15	36.					Neurology	45 min
HOSPITAL WORK 10.30-2.30							
06-10-2025							
8:00-8:45	37					ENT	45 min
8:45-9:30	38					Eye	45 min
9:30-10:15	39					Community Medicine	45 min
HOSPITAL WORK 10.30-2.30							
07-10-2025 Tuesday							
8:00-8:45	40					Behavior Sciences	45 min
8:45-9:30	41					Nephrology/ Medicine	45 min
9:30-10:15	42					Urology	45 min

HOSPITAL WORK 10.30-12.00							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
08-10-2025 Wednesday							
8:00-8:45	43					Gynecology	45 min
8:45-9:30	44					Gynecology	45 min
9:30-10:15	45					Surgery	45 min
HOSPITAL WORK 10.30-2.30							
09-10-2025 Thursday							
8:00-8:45	46					Oncology	45 min
8:45-9:30	47					Radiology	45 min
9:30-10:15	48					Pedes Medicine	45 min
HOSPITAL WORK 10.30-12.00							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
10-10-2025 Friday							
8:00-8:45	49					Psychiatry	45 min
8:45-9:30	50					Psychiatry	45 min
9:30-10:15	51					Pedes Medicine	45 min
HOSPITAL WORK 10.30-12.00							
11-10-2025 Saturday							
8:00-8:45	52					Community Medicine	45 min
8:45-9:30	53					Community Medicine	45 min

9:30-10:15	54					ENT	45 min
HOSPITAL WORK 10.30-2.30							
13-10-2025 Monday							
8:00-8:45	55					Medicine	45 min
8:45-9:30	56					Medicine	45 min
9:30-10:15	57					Surgery	45 min
HOSPITAL WORK 10.30-2.30							
14-10-2025 Tuesday							
8:00-8:45	58					Radiology	45 min
8:45-9:30	59					Oncology	45 min
9:30-10:15	60					Pedes Medicine	45 min
HOSPITAL WORK 10.30-12.00							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
15-10-2025 Wednesday							
8:00-8:45	61					Anesthesia	45 min
8:45-9:30	62					Behavioral Sciences	45 min
9:30-10:15	63					Psychiatry	45 min
HOSPITAL WORK 10.30-2.30							
16-10-2025 Thursday							
8:00-8:45	64					Surgery	45 min
8:45-9:30	65					Surgery	45 min
9:30-10:15	66					Neurology	45 min

HOSPITAL WORK 10.30-12.00							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
17-10-2025 Friday							
8:00-8:45	67					Medicine	45 min
8:45-9:30	68					Surgery	45 min
9:30-10:15	69					Psychiatry	45 min
HOSPITAL WORK 10.30-12.00							
18-10-2025 Saturday							
8:00-8:45	70					Medicine	45 min
8:45-9:30	71					Pedes Medicine	45 min
9:30-10:15	72					Surgery	45 min
HOSPITAL WORK 10.30-2.30							
20-10-2025 Monday							
8:00-8:45	73					Psychiatry	45 min
8:45-9:30	74					Surgery	45 min
9:30-10:15	75					Radiology	45 min
HOSPITAL WORK 10.30-2.30							
21-10-2025 Tuesday							
8:00-8:45	76					Plastic Surgery	45 min
8:45-9:30	77					Orthopedics	45 min
9:30-10:15	78					Gynecology	45 min
HOSPITAL WORK 10.30-12.00							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30

22-10-2025 Wednesday							
8:00-8:45	79					Medicine	45 min
8:45-9:30	80					Nephrology	45 min
9:30-10:15	81					Urology	45 min
HOSPITAL WORK 10.30-2.30							

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SECOND YEAR MBBS CURRICULUM

2025-26

VISION STATEMENT

The vision of King Edward Medical University is to be a renowned national and world-class academic institution, maintaining a leading role in medical education, innovative research, and the provision of international-standard healthcare services.

MISSION STATEMENT

King Edward Medical University will prepare health professionals in accordance with the highest professional standards to practice evidence-based medicine, maintain international quality of patient-centered care in the healthcare delivery system, and produce research scholars demonstrating excellence in knowledge, skills, and ethical values, empowered with community-oriented, self-directed learning and professional development.

INTRODUCTION

Core Philosophy: The Traditional Model

The curriculum is delivered through a traditional, subject-based model, where Anatomy, Physiology, and Biochemistry are taught as distinct, independent disciplines. This pedagogical approach focuses on departmental specialization, allowing students to master the granular details of each subject within its own academic silo. By gaining a deep, concentrated understanding of each subject, students build the foundational "building blocks" of knowledge required for future clinical integration.

Academic Pillars of the Curriculum

- **Anatomy:** The focus shifts toward regional anatomy, specifically the Head and Neck, Neuroanatomy, and Genitourinary systems. Students engage in detailed cadaveric dissection, emphasizing the spatial relationships of structures that are essential for surgical and diagnostic accuracy.
- **Physiology:** This subject explores the complex regulatory mechanisms of the human body. The curriculum covers advanced systems including the Central Nervous System, Special Senses, and the Endocrine and Reproductive systems, detailing how these components maintain homeostasis.
- **Biochemistry:** The Second Year focuses heavily on Metabolic Integration. Students study the intricate biochemical pathways of carbohydrates, lipids, and proteins, alongside molecular biology and genetics, to understand the chemical basis of life and the molecular origins of disease.

COURSE TIMELINE ANATOMY

Total Duration: 32 weeks

Total Hours: 250

Regions	Duration	Lectures Embryology + Histology	Practicals Histology	Demonstrations (Gross Anatomy)	Dissection	Total Hours
Head & Neck Endocrinology	11 +1 weeks 28-01-26 to 29-04-26	35	09	44	10	98
Neurosciences	6+1 weeks 30-04-26 to 18-07-26	16	04	24	06	50
Gastrointestinal Tract	6+1 weeks 20-07-26 to 26-08-26	17	08	24	06	55
Genitourinary	5+1 weeks 27-08-26 to 03-10-26	16	6	20	05	47
Total Contact Hours		84	27	112	27	250

COURSE TIMELINE PHYSIOLOGY

Total Duration: 32 weeks

Total Hours: 216

Starting date of the session	First week of January
Venue	Physiology Lecture Hall on Physiology Floor
Course coverage	9 Months
No. of total lectures	Five Lectures/week
Days of Physiology lectures	One lecture each on Tuesday, Thursday,
	Friday and Saturday of each week.

PRACTICALS

Starting date of the session	First week of January
Venue	Physiology Laboratory
Days of Physiology practicals	Monday, Tuesday, Thursday and Saturday.

TUTORIALS/Small Group Discussions

Starting date of the session	First week of January
Venue	Demonstration Rooms and Physiology
	LT in Physiology department.
Days of Physiology tutorials/PBL	Every Wednesday from 12:30 to 02:30 PM

<u>LECTURES</u>	<u>PRACTICALS</u>	<u>TUTORIALS</u>	<u>Total hours</u>
120 hrs	48 hrs	48 hrs	216

COURSE TIMELINE BIOCHEMISTRY

Total Duration: 32 weeks

Total Hours: 182

<u>THEORY:</u>	
Starting date of the session	28-01-2026
Venue	Biochemistry Lecture Hall 2 Maqbool Ahmed Block
Course coverage	9 Months
No. of total lectures	Four Lectures/week
Days of Biochemistry lectures	One lecture each on Monday, Wednesday, Thursday, and Friday of each week.

<u>PRACTICALS</u>	
Starting date of the session	28-01-2026
Venue	Biochemistry Laboratory
Days of Biochemistry Practicals	Monday, Tuesday, Thursday and Saturday

<u>TUTORIALS/SMALL GROUP DISCUSSIONS</u>	
Starting date of the session	28-01-2026
Venue	Demonstration Rooms in Biochemistry department.
Days of Biochemistry tutorials/Problem based learning	Monday, Tuesday, Thursday and Saturday

<u>LECTURES</u>	<u>PRACTICALS</u>	<u>TUTORIALS</u>	<u>TOTAL</u>
118	32	32	182

Learning Methodologies

Education is facilitated through a structured combination of:

1. **Didactic Lectures:** Providing comprehensive theoretical frameworks for each subject.
2. **Practical Laboratory Sessions:** Developing essential technical skills, such as performing physiological examinations and biochemical assays.
3. **Dissection Hall Sessions:** Offering hands-on anatomical exploration to bridge the gap between textbook descriptions and biological reality.
4. **Tutorials:** Encouraging academic dialogue and refining the student's ability to communicate complex scientific concepts.

Goal of the Year

The ultimate objective of the Second-Year curriculum is to ensure that every student achieves a mastery of the Normal Human State. By the end of this year, students are expected to possess rigorous scientific discipline and the vast knowledge base necessary to transition into clinical years, where they will begin to study how these normal processes are altered by pathology and managed through therapeutics.

Schedule and Timelines for 2nd Year MBBS

The second year MBBS curriculum is structured over a 9-month academic session to ensure comprehensive coverage of the syllabus. To maintain the rigor of the traditional silo-based model, the teaching-learning activities are distributed across theoretical, practical, and small-group formats starting from January 28, 2026.

1. Theory Lectures

Theoretical foundations are established through a consistent weekly schedule designed to cover the breadth of metabolic and molecular biochemistry.

- Total Duration: 9 Months.
- Frequency: Four-Five lectures/subjects per week.
- Venue: Biochemistry Lecture Hall, 2 Maqbool Ahmed Block, Physiology Lecture Theatre, Anatomy Lecture Theatre.

2. Practical Sessions

Hands-on laboratory training is conducted to bridge theoretical knowledge with technical proficiency in biochemical analysis.

- Commencement: January 28, 2026.
- Weekly Schedule: Conducted four days a week/ subject.
- Venue: Biochemistry Laboratory, Histology Laboratory, and Physiology Laboratory

3. Tutorials

To reinforce complex concepts and promote interactive learning, students participate in small-group sessions.

- Commencement: January 28, 2026.
- Format: Includes traditional tutorials and Problem-Based Learning (PBL) sessions.
- Weekly Schedule: Held four days a week for Biochemistry and Anatomy and once a week for Physiology
- Venue: Demonstration Rooms and tutorial rooms.

CODE OF CONDUCT FOR STUDENTS

1. TIMINGS

The students are encouraged to follow the timings of lectures, practical & tutorial classes.

2. ATTENDANCE & SEND UP EXAMINATION

A minimum criterion for attendance for appearing in university examination is set to be 75%. The students are informed about their attendance record and deficiency twice a year. Classes are also arranged in summer vacations to meet the deficiency.

3. PRACTICAL NOTE BOOKS AND LAB COATS

- It is mandatory for students to wear a lab coat during practical classes.
- Practical copies are maintained and checked after every practical.
- Practical copy carries 5 marks in Professional examination.

ASSESSMENT METHODS

1. Internal Assessment
2. Formative Assessment
3. Summative Assessment

CLASS TESTS (DURING ACADEMIC SESSION)

- Class Tests are conducted comprising of Long Essay questions, MCQs and SEQs each month.
- Viva Voce are also conducted at regular intervals
- Sendup at the end of the year includes the entire syllabus.
- Results are displayed promptly

ASSESSMENTS RULES & REGULATIONS

- Tests are conducted sharp at the given time.
- Students are not allowed to enter the examination hall after 15 minutes of the scheduled examination time.
- Students must sit according to the specified seating arrangement
- Cell phones are strictly prohibited in the examination hall.
- Pass score in each assessment is 50%



Office of The Professor of Anatomy Department, KEMU.
Time Table of 2nd Year MBBS (2026-2027) Classes

Day	08:00 - 09:00	09:00 - 10:00	10:00 - 10:30	10:30 - 11:30	11:30-12:30	12:30 - 02:30
Monday	Anatomy Demonstration	Anatomy Dissection	BREAK	Anatomy Lecture (Histology)	Biochemistry Lecture (Lecture Theatre 02)	Practical Histology C Physiology A Biochemistry B Biochemistry Tutorial D
Tuesday	Anatomy Demonstration	Anatomy Dissection		Anatomy Lecture (Histology)	Physiology Lecture	Practical Histology A Physiology B Biochemistry D Biochemistry Tutorial C
Wednesday	Anatomy Lab			Biochemistry Lecture (Lecture Theatre 02)	Physiology Lecture	Tutorial Physiology
Thursday	Anatomy Demonstration	Anatomy Dissection		Physiology Lecture	Biochemistry Lecture (Lecture Theatre 02)	Practical Histology D Physiology C Biochemistry A Biochemistry Tutorial B
Friday	Integrated Lecture / Pakistan Studies	Anatomy Lecture (Embryology)	(10:00-11:00) Biochemistry Lecture		11:00-12:00 Physiology Lecture	
Saturday	Anatomy Demonstration	Anatomy Dissection	Break	Anatomy Lecture (Embryology)	Physiology Lecture	Practical Histology B Physiology D Biochemistry C Biochemistry Tutorial A

Lectures of Anatomy and Physiology will be delivered in Anatomy & Physiology Lecture Theatres, and Lectures of Biochemistry will be delivered in the Lecture Theatre 02 of Maqbool Ahmed Block.

Tehreem Fatima
21.01.26
Prof. Dr. Tehreem Fatima
Dean Basic Sciences
Head of Anatomy Department
King Edward Medical University, Lahore.

Shakil
Prof. Dr. Muhammad Shakil
Head of Biochemistry Department,
King Edward Medical University, Lahore.

Maryam Rao
Dr. Maryam Rao
Head of Physiology Department,
King Edward Medical University, Lahore.

DEPARTMENT OF PHYSIOLOGY

At the end of the course the student should be able to:

BODY FLUIDS AND KIDNEY

1. Describe the components and quantitative measurements of body fluids.
2. Discuss the different fluid compartments, tissue and lymph fluid.
3. Describe the structure of the kidney and nephron and explain general functions of the kidney.
4. Describe the GFR and its regulation.
5. Describe the formation of urine including filtration, re-absorption and secretion.
6. Discuss plasma clearance.
7. Describe the mechanism of concentration and dilution of urine
8. Describe regulation of osmolality, water balance and acid base balance
9. Describe the role of the kidney in blood pressure regulation.
10. Describe the hormonal functions of the kidney.
11. Describe acidification of urine and its importance.
12. Describe the mechanism of micturition and its control.

Applied Physiology:

Understands:

1. Renal plasma clearance tests and their clinical significance.
2. Dehydration, rehydration, overhydration and oedema.
3. Renal failure and dialysis.
4. Metabolic acidosis and alkalosis.
5. Abnormalities of micturition.

NERVOUS SYSTEM

1. Describe general organization of the nervous system.
2. Describe the properties of synaptic transmission.
3. Classify the neurotransmitters and explain their functions.
4. Explain neuropeptides and their functions
5. List the types and describe the properties and functions of sensory receptors.
6. Describe the pathways for transmission of somatic sensations
7. Define reflex action. Classify and describe reflexes
8. Describe the muscle spindle and Golgi tendon organ. Explain their functions.
9. Describe the physiology of the pain and analgesia system.
10. Explain the functions of the cerebral cortex.
11. Differentiate between the sensory and motor cortex and their functions.
12. Describe the motor pathways, including pyramidal and extrapyramidal.

13. Describe basal nuclei (basal ganglia) and their functions.
14. Describe cerebellum and its function.
15. Describe the functions of vestibular apparatus.
16. Explain the organization and functions of reticular formation.
17. Explain mechanism and regulation of the muscle tone.
18. Describe the control of posture and equilibrium.
19. Explain the physiology of sleep.
20. Describe the physiology of memory.
21. Describe the mechanism and control of speech.
22. Discuss the functions of thalamus
23. Discuss the functions of hypothalamus
24. Explain the components and functions of limbic system.
25. Describe the production, circulation, absorption and functions of CSF.
26. Describe the blood brain and blood CSF barriers and their clinical significance.
27. Describe the organization and functions of the autonomic nervous system.

Applied Physiology

Understands:

1. Significance of dermatomes.
2. Injuries of the spinal cord.
3. Hemiplegia and paraplegia.
4. Diseases related to Basal ganglia.
5. Effects of cerebellar dysfunction.
6. Hydrocephalus.
7. Alzheimer's disease.
8. Speech disorders
9. Sleep disorders.
10. **Clinical** abnormalities of pain.

ENDOCRINOLOGY

1. Classify the hormones and describe mechanism of their action
2. Name the hormones secreted by the anterior and posterior pituitary and describe their regulation and functions.
3. Describe the neuroendocrine functions of the hypothalamus
4. Describe the physiological changes of growth and aging.
5. Describe the functions and regulation of the hormones secreted by thyroid gland.
6. Describe the hormones regulating calcium homeostasis (parathormone, vitamin D and calcitonin)
7. Name the hormones secreted by the adrenal cortex and describe their functions and regulation.

8. Name the hormones secreted by the adrenal medulla and describe their functions and regulation.
9. Describe the endocrine functions of the pancreas and regulation of pancreatic hormones.
10. Describe the endocrine functions of the pineal gland.

Applied Physiology

Understands:

1. Acromegaly, gigantism and dwarfism.
2. Effects of pan-hypopituitarism.
3. Diabetes insipidus.
4. Thyrotoxicosis, myxedema and cretinism
5. Pheochromocytoma.
6. Cushing's disease/syndrome.
7. Addison's disease.
8. Hypocalcemia and hypercalcemia.
9. Adrenogenital syndrome.
10. Conn's syndrome. 1
11. Diabetes mellitus and hypoglycemia.

GASTROINTESTINAL TRACT

1. Describe the general functions of gastrointestinal tract.
2. Describe the enteric nervous system, control of gastrointestinal motility and secretion
3. Describe mastication, swallowing and their control
4. Describe the motility of the stomach, small intestine, large intestine and regulation.
5. Describe the functions of GIT hormones
6. Describe gallbladder motility and its regulation
7. Explain mechanism of vomiting and its control pathway
8. Explain defecation and its control pathway

Applied Physiology

Understands:

1. Dysphagia
2. Achalasia cardia
3. Diarrhea and constipation
4. Megacolon

REPRODUCTION

1. Describe the functions of the male reproductive system.
2. Describe the mechanism of erection and ejaculation.
3. Describe the production and function of testosterone.
4. Describe the physiological changes during male puberty.

5. Describe the function of the female reproductive system.
6. Explain the production and function of estrogen and progesterone.
7. Describe the functions of hypothalamic-hypophysis I-gonadal axis.
8. Describe the ovarian and endometrial cycle.
9. Describe the physiological changes during female puberty and menopause.
10. Discuss pregnancy and explain the physiological changes taking place in the mother.
11. Describe the functions of placenta.
12. Discuss the hormones regulating parturition, lactation and development of breast.

Applied Physiology

Understands:

1. Male infertility.
2. Female infertility.
3. Postmenopausal syndrome.
4. Contraception.
5. Basis for pregnancy tests.
6. Hypogonadism.
7. Cryptorchidism.

SPECIAL SENSES

1. Describe the optics of the eye, mechanism of accommodation, **light** reflex.
2. Explain visual acuity, depth perception, neural functions of the retina.
3. Describe the errors of refraction and their corrections.
4. Describe the secretion, circulation, drainage and functions of aqueous humor.
5. Describe the movements of eyeballs.
6. Describe the visual transduction, color vision, visual cortex and visual pathway.
7. Describe the mechanisms for the light and dark adaptation.
8. Describe the functions of external ear.
9. Enumerate the contents of middle ear cavity and functions of the middle ear
10. Describe the structure and functions of internal ear.
11. Explain the determination of the sound frequency, loudness, direction of sound, auditory pathway and auditory cortex.
12. Describe the signal transduction for hearing.
13. Describe the signal transduction for taste and smell.
14. Describe the pathways for the sense of taste and smell,

Applied Physiology

Understands:

1. Types of deafness.
2. Errors of refraction.
3. Lesions of the visual pathway.

4. Night blindness.
5. Color blindness.
6. Squint.
7. Argyll Robertson pupil.
8. Horner's syndrome.
9. Abnormalities of sense of smell and taste.
10. Glaucoma.

PHYSIOLOGY PRACTICAL SECOND YEAR MBBS

NERVOUS SYSTEM

1. Examination of superficial reflexes.
2. Examination of deep reflexes.
3. Examination of motor system.
4. Cerebellar function tests.
5. Examination of sensory system.
6. Examination of cranial nerves.

SPECIAL SENSES

1. Plotting of the field of vision (perimetry and confrontational methods).
2. Testing the visual acuity for near and distant vision.
3. Elicitation of light reflex (direct and consensual) and accommodation reflex.
4. Ophthalmoscopy.
5. Examination of color vision.
6. Examination of hearing.
7. Examination of taste and smell.

PREGNANCY TEST

Learning Objectives/ Outcomes:

By the end of the course, the 2nd year students should be able to:

1. Bioenergetics and Biologic Oxidation

By the end of this topic, students should be able to:

1. Discuss the concept of redox reactions and redox couples.
2. Describe enzymes and coenzymes of biological oxidation and reduction.
3. Describe the process of the respiratory chain and its components.
4. Describe the role of electron flow in oxidative Phosphorylation, ATP Synthase in synthesis of ATP along with their inhibitors & uncouplers.

2. Metabolism of Carbohydrates

By the end of this topic, students should be able to:

1. Illustrate the processes & energetics of glycolysis, gluconeogenesis along with their reversible, irreversible steps catalyzed by specific enzymes and regulation of blood glucose level.
2. Explain the Reactions of Citric acid cycle, Cori's cycle, glycogenesis and glycogenolysis, the hexose monophosphate (HMP) shunt, Uronic acid pathway.
3. Discuss digestion, absorption of carbohydrates and metabolism of Monosaccharides, Disaccharides.
4. Discuss disorders related to monosaccharide and disaccharide metabolism along with their diagnosis based on biochemical tests & their complications.
5. Classify glycogen storage diseases based on enzyme deficiency, their related metabolic pathways, clinical manifestations, complications.

3. Metabolism of Lipids

By the end of this topic, students should be able to:

1. Describe Mobilization, transport, synthesis, oxidation & regulation of fatty acids, TAGs, sterols, phospholipids & glycolipids.
2. Enumerate ketone bodies, eicosanoids, plasma lipoproteins, their various types, synthesis, degradation and utilization.
3. Describe metabolism of Phospholipids and Sphingolipids
4. Illustrate steps of cholesterol synthesis, its fate, functions, regulation and associated disorders.
5. Describe Biosynthesis and Fate of Bile acids and their significance in health and disease.
6. Describe disorders related to fatty acid oxidation, triglyceride & ketone bodies synthesis, cholesterol & lipoprotein metabolism.
7. Describe fatty liver

4. Metabolism of Proteins and Amino acids

By the end of this topic, students should be able to:

1. Explain steps of amino acid oxidation and their metabolic fate, including various processes of nitrogen transfer, nitrogen excretion and ammonia intoxication
2. Describe the process of urea formation, the urea cycle and its regulation along with genetic defects of the urea cycle.
3. Discuss disorders related to urea synthesis, ammonia disposal, and amino acid metabolism.

4. Describe the functions, pathways of each amino acid synthesis and degradation, and genetic disorders of individual amino acids
5. Discuss intermediates formed from the carbon skeleton of amino acids.
6. Describe metabolism of nitrogen-containing compounds.

5. Integration and Regulation of Metabolic Pathways

By the end of this topic, students should be able to:

- a. Define Fed-fast cycle and Starvation.
- b. Describe Metabolism, Anabolic and Catabolic pathways.
- c. Draw the concept map showing the integration of metabolic pathways indifferent tissues

6. Metabolism of Nucleotides.

By the end of this topic, students should be able to:

1. Describe De novo synthesis of purines, pyrimidines, their recycling, degradation and disorders
2. Discuss derivatives of Purines and Pyrimidines and their role in Health and Disease

7. Basis of Genetics & Molecular Biology

By the end of this topic, students should be able to:

1. Describe genes & chromosomes
2. Explain DNA and RNA metabolism
3. Describe the process of protein synthesis
4. Discuss regulation of gene expression
5. Discuss Molecular Biology Techniques

Sr. No	2 nd YEAR (MBBS)		
	Topics	No. of Lectures	No. of Tutorials
1.	Biological Oxidation	7	2
2.	Carbohydrates Metabolism	18	5
3.	Lipids Metabolism	18	4
4.	Protein & Amino Acids Metabolism	15	4
5.	Nucleotides Metabolism	7	3
6.	Integration of Metabolic Pathways	5	1
7.	Biochemical Genetics/ Molecular Biology	26	6

8.	Endocrinology	8	2
9.	Water & Electrolyte balance, Acid-Base Regulation	6	2
10.	Cancer and Xenobiotic	5	1
11.	Biochemistry of Digestive Tract	3	2

PRACTICALS SECOND YEAR MBBS:

- The introduction of techniques and instrumentation of clinical biochemistry like centrifugation, spectrophotometry (visible, UV, infra-red and atomic absorption). pH metry, chromatography, electrophoresis, enzyme-linked immunosorbent assay (ELISA), micro pipetting, flame photometry and ion selective electrode (ISE) technique
- Collection, preservation, and storage of blood sample
- Estimation of various substances in blood and other biological fluids, like glucose , Creatinine, urea, protein, albumin, uric acid, and calcium, total cholesterol; HDL Cholesterol, and triacylglycerol; demonstration of Creatinine clearance; and oral glucose tolerance test (OGTT)
- Determination of plasma enzyme activities of alanine amino transferase (ALT), aspartate amino transferase (AST), amylase, creatine phosphokinase (CK), alkaline phosphatase (ALP), and lactate dehydrogenase (LDH)
- Clinical interpretation of common laboratory values of the compounds and enzymes as listed above.
- Determination of amino acids in urine by paper chromatography (demonstration)

ACADEMIC TIMELINE

- **Course Duration:** 9 months (32 weeks of active session)
- **Total lectures:** 128 lectures (4 lectures per week).
 - Basic Biochemistry Lectures.
 - Clinically oriented lectures
- **Practicals:** One/week for each batch for two hours
- **Tutorials/Problem based Learning Sessions:** One/week for each batch for two hours

ACADEMIC CALENDER 2025-2026

	SECOND YEAR MBBS
Session	28-1-2026 – 28-10-2026
1st Class Test	16-03-2026
2nd Class Test	1 st week of June 2026
3rd Class Test	Mid September 2026
Practical Test	October 2026
Sendup	End of November 2026

DEPARTMENT OF ANATOMY**ACADEMIC CALENDAR**

Session start date 28th Feb. 2026

Session end date 10th Oct. 2026

Tentative date of sendup 1st week of November 2026

Tentative date of professional examination. 1st week of December 2026

TEACHING AND LEARNING STRATEGIES**LARGE GROUP DISCUSSION:**

Venue: Anatomy Lecture theatre in Anatomy department

Number of total lectures: 4 Lectures/week

Days of Anatomy lectures: Monday, Tuesday, Friday, Saturday

PRACTICALS:

Venue: Histology laboratory in Anatomy Department Once a week for 2hrs Days of Histology Practical: Monday, Tuesday, Thursday, Saturday.

SMALL GROUP DISCUSSION (Demonstration/Dissection):

Venue: Dissection hall 5 days per week, 2hrs each Days: Monday, Tuesday, Wednesday, Thursday, Saturday

CONTACT HOURS

- **Total teaching/contact Hours: 256**
- Contact hours for Lectures: $128 \times 1 = 128$ hours
- Contact hours for Practical: $32 \times 2 = 64$ hours
- Contact hours for Tutorials: $32 \times 2 = 64$ hours

COURSE CONTENT

HEAD & NECK & ENDOCRINOLOGY 28-01-2026 to 29-04-2026 (11+1 weeks)	NEUROSCIENCES 30-04-2026 to 18-07-2026 (6+1 weeks)
GROSS ANATOMY: - Cranium, Face & Scalp, Meninges, Pterygopalatine Fossa, Ear, Orbital & Oral Cavity, Parotid, Temporal & Infratemporal regions, Nose, Bones & Fascia of Neck, Triangles of Neck, Pharynx, Larynx Glands & Neurovascular Structures of Neck	GROSS ANATOMY: - Spinal Cord, Brainstem, Cerebellum, Cerebrum, Reticular Formation, Limbic System, Basal Ganglia, Cranial Nerves, Thalamus, Hypothalamus, Autonomic System, Meninges, CSF & Ventricular System
Special Embryology - Development of Skeletal System (2) - Development of Body Cavities (2) - Development of Respiratory System (3) - Development of CVS (8) - Development of Head & Neck (6) - Development of Special Senses (4)	Special Embryology - Development of Muscular System (2) - Development of Limbs (2) - Development of Skin & Mammary Glands (2) - Development of Nervous System (5)
Special Histology - Histology of Lip, Tongue & Salivary Glands (3) - Histology of Endocrine System (3) - Histology of Special Senses (4)	Special Histology - Histology of Nervous System (4) - Histology of Mammary Glands (1)
Histology Practical - Lip - Tongue - Glands: Salivary, Thyroid, Parathyroid, Adrenal & Pituitary - Eyelid & Cornea - Eyeball & Retina - Pinna	Histology Practical - Spinal Cord - Cerebrum - Cerebellum - Mammary Gland
GIT 20-07-2026 to 26-08-2026 (5+1 weeks)	GENITOURINARY 27-08-2026 to 03-10-2026 (5+1 weeks)
Gross Anatomy - Lumbar Vertebrae, Anterior Abdominal Wall, Peritoneum, Esophagus, Stomach, Small & Large Intestines, Large Blood Vessels Of Gut, Lumbar Plexus, Extrahepatic Biliary Apparatus, Spleen, Pancreas & Liver.	Gross Anatomy - Posterior Abdominal Wall, Kidney & Ureter, Suprarenal Gland & Chromaffin System, Sacrum, Bony Pelvis, Pelvic Walls & Floor, Urinary Bladder & Urethra, Rectum & Anal Canal, Male & Female Reproductive Organs, Perineum, Male & Female External Genitalia, Internal Iliac Vessels & Sacral Plexus
Special Embryology - Development of GIT (8)	Special Embryology - Development of Urogenital system (6)
Special Histology - Histology of GIT (9)	Special Histology - Histology of Renal system (3) - Histology of Male and female Genital system (6)
Histology Practical - Esophagus - Stomach - Small Intestine - Large Intestines (Colon & Appendix) - Rectum & Anal Canal - Liver & Gallbladder - Pancreas	Histology Practical - Kidney & Ureter - Urinary Bladder & Urethra - Testis & Vas Deferens - Prostate Gland & Seminal Vesicle - Ovary & Uterine Tube - Uterus

GASTROINTESTINAL TRACT (GIT)

Topic	Learning Outcomes

Oral Cavity Hard & Soft Palate	- Describe the gross anatomical features of the oral cavity, its boundaries, contents with neurovascular supply and lymphatic drainage. - Identify the skeletal framework of the hard palate, its constituent bones, sutures, foramina and correlate it to cleft palate formation. Outline the muscles of the soft palate including their attachments, nerve supply and actions. Explain and correlate the role of the soft palate in swallowing and speech, with relevant clinical conditions (e.g., cleft palate, palatal paralysis).
Tongue & Hypoglossal Nerve	- Describe the structure of the tongue including its musculature, neurovascular supply and lymphatic drainage. - Explain the anatomical basis and clinical features of hypoglossal nerve lesion. - Outline the lymphatic drainage pathways and routes of spread of carcinoma in the oral cavity.
Salivary glands. (Parotid, submandibular and sublingual)	- Describe the location, anatomical features, relations, neurovascular supply of the parotid gland. - Enlist the structures entering and leaving the parotid gland. - Trace the course and opening of the parotid duct. - Outline the branching pattern of the facial nerve and correlate it with clinical features of facial nerve injury and complications of parotid tumor surgery. - Explain the anatomical basis of common parotid gland disorders including viral inflammation (mumps), bacterial parotitis, and Frey's syndrome. - Describe the location, morphology, relations, neurovascular supply and lymphatic drainage of submandibular and sublingual glands and identify their openings.
Anterior Abdominal Wall	- Identify and mark the anatomical planes and quadrants used in abdominal division and explain their clinical significance in organ localization and surgical practice. - Draw and label the cutaneous innervation and dermatomes of the anterolateral abdominal wall. - Discuss the clinical significance of dermatomes in visceral pain localization, referred pain patterns, neurological assessment and nerve blocks. - Outline the basic organization and continuity of the fascia of the anterior abdominal wall with surrounding regions. - Explain the clinical relevance of abdominal fascia in spread of fluid/infection, surgical incisions, wound healing and hernias. - Describe the arterial supply and lymphatic drainage of the anterolateral abdominal wall, and explain the clinical correlation of its venous drainage in caput medusae. - Describe the attachments, nerve supply and actions of the muscles of the anterolateral abdominal wall. - Identify and mark these muscles on cadavers and anatomical models. - Illustrate the extent, formation and contents of the rectus sheath at different levels. - Discuss the role of abdominal wall muscles in trunk movement, core stability, intra-abdominal pressure, respiration and visceral support. Describe the common abdominal incisions, their anatomical basis and clinical indications.
Inguinal Canal	- Describe the formation, extent and modifications of the inguinal ligament. - Locate superficial and deep inguinal ring on a cadaver or simulated subject. - Explain the boundaries, extent and direction of inguinal canal. - Enumerate the contents of inguinal canal in males and females. - Enlist the layers and contents of spermatic cord. - Explain the anatomical basis of the cremasteric reflex, including its reflex arc, nerve supply, and clinical significance. Define different types of hernias: inguinal, femoral, umbilical, epigastric, incisional, lumbar. Differentiate between direct and indirect inguinal hernias and correlate their clinical features and anatomical relevance.

Peritoneum	- Define peritoneum and differentiate between parietal and visceral peritoneum. - Explain the somatic and autonomic innervation of peritoneum with clinical correlation to pain localization. - Define peritoneal cavity and divide it into different potential spaces. - Enlist the boundaries of greater sac, lesser sac and epiploic foramen. - Trace the horizontal and vertical disposition of peritoneum in the abdominal cavity. - Describe omenta, mesenteries, ligaments, recesses, pouches and paracolic gutters. - Trace the spread and accumulation of fluid within the peritoneal cavity. Discuss the anatomical basis of peritonitis, ascites, abdominal paracentesis, peritoneal dialysis and peritoneal adhesions and adhesiotomy.
Esophagus & Stomach	- Describe the gross anatomy of esophagus with its neurovascular supply and lymphatic drainage. - Enlist esophageal constrictions. - Describe the anatomical basis of Dysphagia, esophageal varices, barrette esophagus, achalasia cardia and Gastro Esophageal Reflux Disease (GERD) - Describe the anatomical position, parts, external and internal features, relations and peritoneal reflections of stomach on a prosected specimen. - Draw and label the vascular supply and lymphatic drainage of the stomach. - Discuss the nerve supply of stomach with a special reference to vagotomy. Explain the underlying anatomy of hypertrophic pyloric stenosis, peptic ulcers, partial and total gastrectomy and carcinoma of the stomach. Describe the importance of endoscopy in evaluation of esophageal varices and Barium meal in radiographic evaluation of esophageal and gastric disorders.
Small Intestine	- Enlist different parts of duodenum and describe their peritoneal and visceral relations, neurovascular supply and lymphatic drainage. - Locate the opening of common bile duct on a model of duodenum. - Differentiate between jejunum and ileum on gross examination. - Trace the attachment of root of mesentery in a cadaver/ Anatomical model. Describe the anatomical relevance of the following conditions: Duodenal ulcers. Meckel's diverticulum. Intestinal obstruction (volvulus, intussusception)
Large Intestine	- Distinguish between small and large intestine on gross examination. - Define appendices epiploicae, Teniae Coli and Haustra. - Describe the gross anatomy of caecum and appendix including peritoneal and visceral relations, neurovascular supply and lymphatic drainage. - Identify the ileocecal junction and locate appendix on a cadaver. - Demonstrate different positions of appendix on an anatomical model. - Describe the gross anatomy and relations (visceral & peritoneal) of ascending, transverse descending and sigmoid colon. - Draw and label the arterial supply of colon. - Describe the venous, lymphatic drainage and nervous innervation of the colon. Describe anatomical relevance of acute appendicitis and pain in right iliac fossa. Mark the incision of appendectomy on a cadaver/ model and differentiate between open and laparoscopic appendectomy. Explain anatomical basis of ulcerative colitis, spread of colorectal carcinoma, diverticulosis, volvulus, colostomy, sigmoidoscopy and colonoscopy.
Rectum and Anal Canal	- Describe the gross anatomy and relations (visceral & peritoneal), neurovascular supply and lymphatic drainage of rectum and anal canal. - Recognize different zones of anal canal by defining pectinate line and white line of Hilton. - Differentiate between the structure and nerve supply of internal and external anal sphincter. - Enumerate the boundaries, contents and communications of ischioanal fossa.

	• Differentiate between internal and external hemorrhoids based on anatomical location, venous drainage, nerve supply, and clinical features. • Describe the anatomical basis and clinical features of rectal prolapse, rectal examination, anal fissure, anal fistula and perianal abscess.
Great Vessels of Abdomen	• Describe the extent, course, and anatomical relations of the abdominal aorta. • Classify and outline the branches of the abdominal aorta including its major subdivisions. • Explain the origin, course, and distribution of major branches. • Discuss aortic aneurysm, aortic dissection, branch occlusion, palpation sites and relevance in surgical procedures. • Describe the formation, course, relations, tributaries and termination of IVC. • Explain inferior vena cava syndrome and its role in venous obstruction. • Trace the collateral circulation in IVC obstruction. • Describe the role of IVC in central venous access and in abdominal and vascular surgeries.
Portosystemic Anastomosis	• Describe the formation, course, relations, tributaries and termination of portal vein. • Explain the concept of the portal venous system and trace the flow of blood from abdominal organs to the liver sinusoids and hepatic circulation. • Define portosystemic anastomoses and describe their sites, contributing vessels and functional significance. • Define portal hypertension with its clinical features and complications.
Liver	• Describe the location, lobes, surfaces, peritoneal and visceral relations of liver. • Palpate the liver in a simulated subject and define hepatomegaly. • Enlist bare areas of liver. • Explain its blood supply, lymphatic drainage, and nerve supply. • Draw and label the segments of liver. • Describe the surgical importance of liver resection and biopsy. • Discuss the role of Pringle's maneuver in controlling hepatic bleeding during liver surgery. • Define liver cirrhosis and explain its clinical relevance to portal hypertension.
Biliary System	• Name different parts of biliary tree and describe their relations and neurovascular supply. • Describe the formation, course, relations and termination of the common hepatic and bile duct. • Enlist the boundaries and contents of Calot's triangle and explain its surgical importance. • Define obstructive jaundice, gallbladder gangrene, cholelithiasis, choledocholithiasis, cholecystitis. • Describe underlying mechanism of biliary colic and its referral to other sites. • Mark the incision of cholecystectomy on a cadaver. • Describe the types of cholecystectomy (open, laparoscopic, robotic, and subtotal) with reference to relevant hepatobiliary anatomy.
Pancreas	• Describe the location, parts, relations, neurovascular supply and lymphatic drainage of pancreas. • Outline the course of main and accessory pancreatic ducts and identify their openings. • Describe the anatomical basis of pancreatitis, pancreatic carcinoma and its spread. • Describe the role of ERCP (Endoscopic Retrograde Cholangiopancreatography) in the evaluation and management of disorders of the biliary and pancreatic ductal systems.
Spleen	• Demonstrate the anatomical position of spleen. • Describe its location, surfaces, borders, poles, relations, neurovascular supply and the contents of hilum. • Explain clinical manifestations of splenomegaly, splenic rupture and splenectomy.

HEAD & NECK & ENDOCRINOLOGY

TOPICS	LEARNING OUTCOMES
Topographic anatomy of Skull. Cranial Cavity	Demonstrate the anatomical position of skull with special emphasis on planes of anatomical position. • Appreciate the norms of skull from different views along with its foramina • Enlist the structures traversing the foramina of the bones of the skull • Identify important bony landmarks on the bones as viewed from lateral, superior, inferior, anterior and posterior views. • Identify the bones forming the boundaries of orbit, nasal cavity, oral cavity, temporal, infratemporal fossa & pterygopalatine fossa on the given bone. (detail to be done with relevant topics) • Describe and demonstrate the boundaries and gross features of cranial fossae. • List and demonstrate foramina along with structures passing through them in anterior, middle and posterior cranial fossae. • Recognize and demonstrate the important sutures, fontanelle and impressions on the interior of cranial vault.
Meninges and Dural Venous sinuses	• Explain the meninges of brain and spinal cord along with the reflections of dura mater in brain. • Enlist paired and unpaired Dural venous sinuses along with their attachments • Describe the location, important relations, and communications of the cavernous sinus and enumerate structures passing through it. • Describe the clinical presentation of following clinical disorders associated with meninges and Dural venous sinuses: • Meningitis • Epidural hemorrhage • Subdural hemorrhage • Subarachnoid hemorrhage
Mandible	• Describe the ramus and body of the mandible concerning its bony features and attachments. • Identify the anatomical parts of the mandible along with its foramina and structures passing through it • Explain the clinical presentation of different fractures of the mandible with relevant anatomical basis • Identify the bony landmarks and site of attachment of muscle.

Scalp	• Correlate gross features of each layer with an anatomical basis of black eye, profuse bleeding, gaping wound, spread of scalp infection and hematoma formation. • Demonstrate the extent of the scalp on the given model. • Identify the muscles and neurovascular structures related to scalp on prosected specimen/given models. • Describe the layers of the scalp in a sequential order
Face	• Elucidate the cutaneous innervation of face • Enlist the group of facial muscles according to the orifices they guard. • Describe the nerve supply of muscles of facial expressions. • Describe the course of arteries, veins, lymphatics and nerves of the face with the help of model. • Describe the course and distribution of facial nerve • Emphasize the relationship of facial nerve with pterygopalatine and submandibular ganglia • Highlight the effects of lesion of facial nerve at different levels • Differentiate anatomical basis of clinical presentation of UMN and LMN lesion of facial nerve • Correlate gross features of face with anatomical basis of danger area, trigeminal neuralgia, Bell's palsy. • Identify muscles of facial expressions • Demonstrate the cutaneous innervation of the face on the given model • List embryological sources of head and neck structures with special emphasis on pharyngeal apparatus. • Tabulate the nerve and blood supply and derivatives of all arches, pouches, clefts and membranes.
Submandibular Region	• Describe the location of major salivary glands (anatomical relations) along with opening of their ducts. • Illustrate the secretomotor nerve supply of major salivary glands. • Revisit boundaries of submandibular triangle • Describe the parts, relations, neurovasculature of submandibular gland. • Illustrate the routes of submandibular ganglion • Describe the distribution of submandibular ganglion • Correlate the anatomy of submandibular fascial space with Ludwig's angina • Identify the nerves, vessels and glands in the sub mandibular regions on the given model. • Describe the histomorphological features of salivary glands with regards to their secretory and ductal systems • Identify H&E Stained slides of submandibular gland and sublingual glands and draw their labelled diagrams.

Parotid Region	• Elucidate the surfaces, borders, shape, location, parts, relations and drainage of parotid gland • List contents of parotid region • Trace the pathway of autonomic supply of parotid gland. • Enumerate structures embedded in parotid gland in a sequential order. • Interpret the following clinical conditions related to parotid gland: Infection (mumps) , tumor and stone of parotid gland and Frey's Syndrome. • Identify the nerves, vessels and glands in the parotid region on the given model • Identify H&E Stained slides of parotid gland and draw their labelled diagrams.
Orbit	• Revisit the skeletal framework of bony orbit and its communications • Enlist the contents of orbit • Describe the course and distribution of ophthalmic nerve and artery. • Enumerate different components of the lacrimal apparatus • Describe the nerve supply of the Lacrimal gland • Define Horner's Syndrome • Explain the developmental anomalies of the nasolacrimal duct • Identify extraocular muscles, and neurovascular structures of eyeball on given models. • Tabulate the attachments, nerve supply, and actions of extraocular muscles • Justify the movements of extraocular muscles based on their attachments • Identify extraocular muscles, and neurovascular structures of the eyeball on given models • Illustrate the course and distribution of 3, 4 and 6 CNs • Outline the route and distribution of ciliary ganglion
Tongue and oral Cavity	• Outline the floor, roof, lateral walls and vestibule of oral cavity. • Describe topographic features of tongue. • Tabulate the actions and nerve supply of muscles (intrinsic and extrinsic) of tongue • Tabulate the attachments, nerve supply, actions of muscles of soft palate. • Illustrate the pathway of gag reflex. • Differentiate a case of UMN and LMN lesion of hypoglossal nerve • Correlate Lymphatic drainage of different parts of tongue with spread of malignancy and infection of tongue.
Temporal & infratemporal regions + TMJ	• Identify the location, boundaries, contents and communications of temporal and infratemporal fossa on a given model and skull. • Describe the course and distribution of mandibular nerve from origin to distribution • Tabulate the attachments, actions and nerve supply of muscles of mastication. • Trace location, various routes and distribution of otic ganglion • Justify role of lateral pterygoid as a peripheral heart on anatomical basis of pterygoid venous plexus • Elucidate importance of pterygoid venous plexus in case of intracranial spread of infection to cavernous sinus. • Specify the origin and distribution of superficial temporal, First and second parts of the maxillary artery • Specify the origin and distribution of Chorda tympani till it joins the lingual nerve. • Outline the type, articular surfaces, capsule, ligaments, supporting factors, movements, and nerve supply of TMJ • Describe movements of TMJ regarding axes and muscles producing them • Correlate a case of dislocation and reduction of TMJ with anatomical knowledge of TMJ.

	• Identify the nerves, vessels and muscles in temporal and infratemporal fossa on the given model. • Identify the involved articular surfaces and site of attachment of muscles on the given model • Demonstrate the different movements at the temporomandibular joint on the given model.
Nose and Paranasal Sinuses	• Describe features of different walls of nose. • Describe the features, vascular supply, nerve supply and openings in lateral wall of nose • Describe the features, vascular supply, and nerve supply of the medial wall of the nose • Highlight the significance of Little's area in a case of epistaxis • Identify the location of pterygopalatine fossa on skull • List bones forming walls of pterygopalatine fossa • Enumerate its contents and communications • Describe the distribution of third part of maxillary artery, nerve and pterygopalatine ganglion • Justify the role of pterygopalatine ganglion in hay fever/allergies • Outline the development of nose and paranasal sinuses • Identify the location of paranasal sinuses in sagittal section of skull • Demonstrate the location and drainage of paranasal sinuses in skull and on radiograph • Demonstrate the structure of lateral wall of nose on the given model • Identify the location of pterygopalatine fossa on skull.
EAR	• Describe the gross anatomical features of the auricle, external auditory meatus, and tympanic membrane. • Correlate the role of first and second pharyngeal apparatus in development of ear. • Describe the differentiation of otic capsule into inner ear. • Correlate the anomalies of external ear with neural crest cells • Identify the histological structure of different parts of ear, particularly the external and internal ear • Identify the gross features of external ear on given model • Identify H&E-stained slide of pinna and cochlea and draw their labelled diagrams. • Correlate nerve supply of external ear and tympanic membrane with clinical significance (perforation of tympanic membrane) • Justify the anatomical basis of otoscopy in infants and adults. • Describe the gross anatomical features, boundaries, structures and contents of middle ear cavity. Describe the structures forming the walls of middle ear cavity on the given model. • Trace/ Outline the pathway and distribution of facial nerve within petrous part of temporal bone • Identify the walls of middle ear on given model. • Highlight the importance of infection in middle ear cavity in relation to its relevant communications. • Identify the bony and membranous parts of inner ear on model • Describe the histological structure of sensory receptor areas of internal ear like Organ of Corti maculae acousticae and crista ampullaris • Identify the cells and spaces in cochlea • Identify the parts of bony and membranous parts of inner ear on given model.

	• Describe various hearing Abnormalities • Discuss the various hearing tests including auditory evoked potentials (especially in reference to menier's disease) • Interpret audiometry findings in perceptive and conductive deafness • Discuss presentation, investigation and management of hearing loss and common hearing disorders.
NECK	• <u>Hyoid bone & Cervical vertebrae</u> • Explain the gross features and attachments of the hyoid bone • Give distinguishing features of each cervical vertebra. Compare the key anatomical features of each cervical vertebra. • Enumerate structures passing through foramina • Identify the types and movements of atlantoaxial and atlanto-occipital joints • Outline ligamentous attachments on cervical vertebrae. • <u>Superficial & deep cervical Fascia</u> • Outline contents of the superficial fascia of the neck (platysma, external jugular vein) • Enumerate the layers of deep cervical fascia. • Trace / Specify the attachments of investing, pre-tracheal, carotid sheath, and prevertebral layers of fascia. • Identify various modifications and neck spaces formed by fascial attachments. • Comprehend / Describe the clinical importance of neck spaces in the spread of infection. • <u>Triangles of neck:</u> • Tabulate the attachments, nerve supply, actions of superficial and deep muscles of neck (sternocleidomastoid, suprahyoid, infrahyoid, suboccipital, prevertebral muscles,). • Identify boundaries and contents of triangles of neck on model • Describe the origin, course and distribution of vessels and nerves of neck (cervical plexus, Ansa cervicalis, Common carotid artery, Internal jugular vein, subclavian vessels) • Analyze a case of lesion of accessory glossopharyngeal and vagus nerve on anatomical basis. • Describe the clinical features of torticollis • <u>Larynx</u> • Describe laryngeal wall in detail with emphasis on cartilages, ligaments, muscles, vascular supply and nerve supply. • Analyze mechanism of abduction and adduction of vocal cords • Distinguish clinical presentations of injury to external, internal and recurrent laryngeal nerves. • Recognize clinical significance of piriform fossa. • Explain the following with reference to their anatomical basis: • Laryngoscopy • Aspiration of foreign body from laryngopharynx. • <u>PHARYNX</u> • Differentiate extent, anatomical features, vascular supply, nerve supply of three parts of pharynx on anatomical basis List muscles of pharynx with nerve supply and action • Name structures passing through the spaces between muscles of pharynx

	• Trace origin of pharyngobasilar fascia on base of skull. • Correlate anatomical knowledge of pharyngobasilar fascia with patency of nasopharynx • Justify role of Eustachian tube in equalizing middle ear pressure, age related obliquity • Describe anatomical route of spread of infections from nasopharynx to middle ear. • Relate boundaries of tonsillar fossa and tonsillar bed with significant structures that must be protected during tonsillectomy. • Define Killian's dehiscence Skill • Identify and locate different subdivisions and boundaries of pharynx on given model. <u>Lymphatic drainage of neck</u> • Enumerate the groups of lymph nodes draining the neck. • Describe their location and areas of drainage. • Describe the formation of jugular lymph trunk. • Describe the clinical importance of • 'lymphatic drainage of neck.
Endocrine Glands	• Classify the glands • Describe the structure and location of all endocrine glands in the body Describe the gross anatomy, neurovascular supply and clinical importance of pituitary gland. • Describe the gross anatomy, neurovascular supply and clinical importance of Thyroid gland • Describe the gross anatomy, neurovascular supply and clinical importance of parathyroid glands • Describe the development and congenital anomalies of parathyroid glands • Revisit the gross anatomy, neurovascular supply and clinical importance of endocrine portion of pancreas. • Revisit the gross anatomy, neurovascular supply and clinical importance of adrenal gland •

Neurosciences

Course Content	Learning Outcomes
Spinal Cord	• List the major divisions, components of the central nervous system. • Demonstrate the structure of brain and spinal cord on prosected specimens and models. • Identify the normal structure of brain and spinal cord in the images of CT scan & MRI. Explain the gross appearance and the nerve cell groups in the anterior, posterior, and lateral gray columns of the spinal cord • Enumerate and illustrate the arrangements of ascending and descending tracts (white matter) in spinal cord at various levels. • Explain the given clinical conditions related to ascending and descending tracts of spinal cord. Explain the various thermal sensations, thermal receptors, and their excitation and transmission of thermal signals in the nervous system
	• Classify the different types of pain. • Compare the perception and transmission of the different types of pain. • Explain the pain suppression system in the brain and spinal cord. • Describe the brain's opiate system endorphins and enkephalins • Explain the role of proprioceptors (muscle spindles and Golgi tendon organs) in motor movements • Explain dynamic and static stretch reflex • Describe the flexor reflex and the crossed extensor reflex. • Explain the reciprocal inhibition and reciprocal innervation. • Identify the reflexes of posture and locomotion in the spinal cord. • Explain the role of primary motor cortex, premotor area, and supplementary motor area in the control of voluntary motor movements. • Identify the various pathways for the transmission of signals for voluntary motor control from the motor cortex to the muscles. • Explain the significance of anterior motor neurons as the lower motor neurons. • Identify the role of the brain stem in controlling motor function and role in posture of the body against gravity. • Explain the role of pyramidal and extrapyramidal tract in the voluntary motor movements. • Describe the clinical abnormalities of pain and other somatic sensations • Determine the anatomical and pathophysiological relevance of the following clinical conditions: • Upper motor neuron lesions, lower motor neuron lesions • Hemiplegia, paraplegia and Quadriplegia • Spinal shock syndrome • Complete cord transection syndrome • Anterior cord syndrome • Central cord syndrome • Brown sequard syndrome • Syringomyelia

	• Poliomyelitis • Multiple sclerosis • Amyotrophic lateral sclerosis
Brainstem	• Describe the gross appearance and internal structure of the medulla oblongata. • Illustrate the cross sections of medulla oblongata at different levels. Explain the effects of raised pressure in the posterior cranial fossa on the structures contained within it. • Describe the gross features and internal structure of pons. • Illustrate cross-section of pons at different levels showing major structures at each level. • Describe the gross appearance and internal structure of the midbrain. • Illustrate cross sections at the level of superior colliculus and inferior colliculus showing major structures at each level.
Cerebellum	• Enumerate and illustrate histological layers of cerebellar cortices and different cell types of these layers. • Summarize the characteristic developmental events of Cerebellum • Describe the gross features of cerebellum. • List intracerebellar nuclei and types of fibers constituting white matter of cerebellum and explain their routes of entry and exit. • Explain the pathways carrying afferent and efferent fibers to and from the cerebellum.
Cerebrum	• Identify main sulci and gyri of cerebral hemispheres and describe the extent of each of them. • Explain the divisions of cerebral lobes on superolateral, medial, and inferior surfaces of cerebral hemispheres. • Enumerate fibers making up the white matter of cerebral hemispheres and describe each of them. • Identify different components of cerebrum on prosected specimen • Describe the cortical functional areas in different lobes of cerebral hemispheres • Draw and Label Homunculus. Define important clinical correlates. • Describe internal structure of cerebral hemisphere; white matter, Basal ganglia, Lateral ventricle

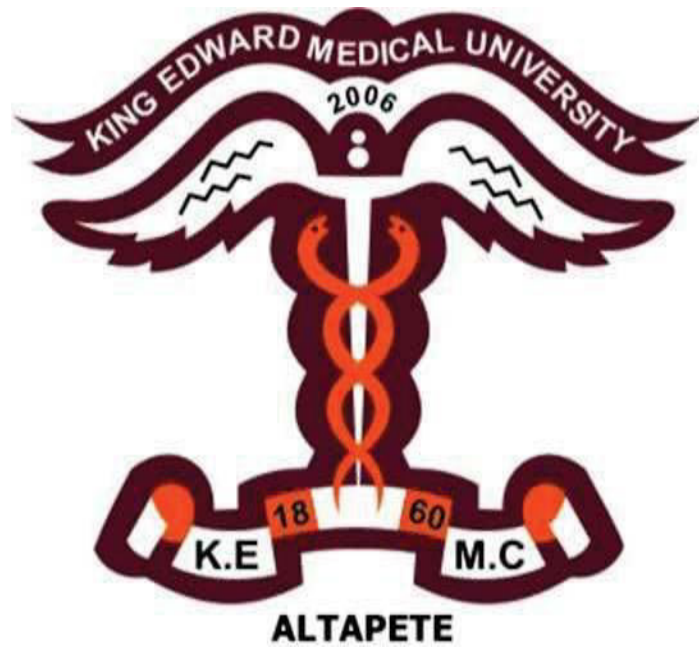
Diencephalon Basal Ganglia	• Discuss the Location, Relations, Blood supply, nuclei and major connections of Thalamus, Hypothalamus, Epithalamus, Subthalamus, Metathalamus • Describe and Illustrate the Hypothalamic and pituitary gland Nuclei with their functions, location afferents. • Describe the Hypothalamo-Hypophyseal Portal System. • Describe connections and functions of different nuclei constituting basal ganglia. • List hyperkinetic disorders related with various basal nuclei like chorea, hemiballismus and athetosis, • Describe Parkinson disease regarding • etiology, pathophysiology, clinical features and treatment. •
Ventricular system	• Describe the anatomical organization of ventricular system of brain • Explain the boundaries of each ventricle along with their choroid plexus. • Explain formation, circulation and absorption of CSF. • Enlist the structures forming blood brain and blood CSF barriers • Identify the features of various ventricles on models and prosected specimen. • Illustrate the floor of fourth ventricle
Limbic System	• Explain the functions of various components of limbic system and role of hippocampus in memory. • Classify memories based on type of sensory experience, time of retention, synaptic facilitation and habituation • Explain the process of consolidation of memory through chemical and anatomical changes occurring at the synapse.
BLOOD SUPPLY OF BRAIN, CSF	• Describe the blood supply of different parts of brain and spinal cord emphasizing on circle of Willis • Explain the formation and importance of venous system • Identify various blood vessels of brain and spinal cord on models and prosected specimen. • Explain the significance of blood brain barrier. • Describe the process of lumbar puncture, including sequential enumeration of the anatomical structures that a needle passes through during a spinal tap. • Explain causes & varieties of Hydrocephalus

HISTOLOGY PRACTICALS

Date	Topic
02-02-2026 to 07-02-2026	Lip
09-02-2026 to 14-02-2026	Tongue
16-02-2026 to 21-02-2026	Salivary glands (Parotid, submandibular, sublingual)
23-02-2026 to 28-02-2026	Thyroid & Parathyroid gland
02-03-2026 to 07-03-2026	Adrenal gland
09-03-2026 to 14-03-2026	Pituitary gland
16-03-2026 to 21-03-2026	Eyelid
24-03-2026 to 28-03-2026	Cornea
30-03-2026 – 11-04-26	Batch C (Cornea) Batch A, D,B (Revision)
13-04-26 to 17-04-26	Eye Ball
20-04-26 to 24-04-26	Pinna
27- 04-26 to 02-05-26	Revision
04-05-2026 to 09-05-2026	Spinal Cord
11-05-2026 to 16-05-2026	Cerebellum
18-05-2026 to 23-05-2026	Cerebrum
25-05-2026 to 30-05-2026	Mammary Gland
20-7-26 to 25-7-26	Oesophagus
27-7-26 to 1-8-26	Stomach

3-8-26 to 8-8-26	Small intestine
10-8-26 to 15-8-26	Large intestine (Colon & Appendix)
17-8-26 to 22-8-26	Rectum & Anal canal
24-8-26 to 29-8-26	Liver & Gall bladder
31-8-26 to 5-9-26	Pancreas

7-9-26 to 12-9-26	Kidney & Ureter
14-9-26 to 19-9-26	Urinary bladder & Urethra
21-9-26 to 26-9-26	Testis & Vas deferens
28-9-26 to 3-10-26	Prostate gland & Seminal vesicles
5-10-26 to 10-10-26	Ovary, Uterine tube & Uterus



THIRD YEAR MBBS CURRICULUM

2025-26

VISION STATEMENT

The vision of King Edward Medical University is to be a renowned national and world-class academic institution, maintaining a leading role in medical education, innovative research, and the provision of international-standard healthcare services.

MISSION STATEMENT

King Edward Medical University will prepare health professionals in accordance with the highest professional standards to practice evidence-based medicine, maintain international quality of patient-centered care in the healthcare delivery system, and produce research scholars demonstrating excellence in knowledge, skills, and ethical values, empowered with community-oriented, self-directed learning and professional development.

KEMU Curricular Map: A Competency-Based Framework

3rd YEAR MBBS Modular Integrated Framework

Period	Modules	Horizontal Integration	Skill component	Vertical Integration
January to February	Generalized Module (02-01-2025 to 13-01-2025) 1st Inter Module (14-01-2025 to 30-01-2025) Inflammation (01-02-2025 to 15-02-2025) 2nd Inter Module (17-02-2025 to 25-03-2025)	Pathology Pharmacology Forensic Medicine Interactive Lecture SDL <u>VENUE:</u> Forensic Lecture Theater	• Practical • Tutorial • Clinical ward/Rotation	Medicine, Surgery, ENT, Eye, Orthopedic, Physiology, Dermatology, Behavioral Sciences Interactive Lecture SDL <u>VENUE:</u> Forensic Lecture Theater
Assessment written component (MCQ's & SEQ's)				
March to May	Special Microbiology (06-03-2025 to 21-05-2025) Immunity (29-05-2025 to 05-06-2025)	Pathology Pharmacology Forensic Medicine Interactive Lecture SDL <u>VENUE:</u> Forensic Lecture Theater	• Practical • Tutorial • Clinical ward/Rotation	Medicine, Surgery, ENT, Eye, Orthopedic, Physiology, Dermatology, Urology, DME, Behavioral Sciences Interactive Lecture SDL <u>VENUE:</u> Forensic Lecture Theater
Assessment written component (MCQ's & SEQ's)				
July to September	Hemodynamics (10-07-2025 to 24-07-2025) 3rd Inter Module (25-07-2025 to 13-08-2025) 4th intermodule (15-08-2025 to 10-09-2025) Neoplasia (11-09-2025 to 20-09-2025)	Pathology Pharmacology Forensic Medicine Interactive Lecture SDL <u>VENUE:</u> Forensic Lecture Theater	• Practical • Tutorial • Clinical ward/Rotation	Medicine, Surgery, ENT, Eye, Orthopedic, Physiology, Dermatology, Urology, DME, Oncology, Community Medicine, Behavioral Sciences Interactive Lecture SDL <u>VENUE:</u> Forensic Lecture Theater
Assessment written component (MCQ's & SEQ's)				
November Preparation Leave four weeks				
December: Summative Assessment-Written Component + Structured Practical & Viva				

MODULE

GENERALIZED MODULE

DURATION **10 DAYS (02-01-25 to 13-01-2025)**

CONTACT HOURS Lectures =31.5 hours + Practicals= 30.50 Hours + Hospital stay = 10.5 HOURS

CREDIT HOURS = 2.7

TEACHING METHODOLOGIES Lectures/Practical/clinics

OBJECTIVES

The course is designed primarily for 3rd year MBBS students and will cover the fundamental aspects of General microbiology and the general aspects of pharmacology and Forensic medicine. The basic outlines and the introduction of interrelated clinical aspects of Medicine, Surgery, Orthopedics, Eye, Ear, Nose and Throat will be given. By the end of the module, the students should be able to:

1. Give:

- Introduction to General Microbiology
- Bacterial cell structure
- Bacterial genetics/ Mutations
- Pathogenesis
- Laboratory Diagnosis of bacterial infections

2. Discuss the

- Introduction & Branches of Pharmacology and development of new drugs

3. GENERAL ASPECTS OF FORENSIC TOXICOLOGY

4. History taking of Infectious diseases

5. Introduction to surgical Patients

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
Day 1 02-01-2025 (Thursday)							
8.00-8.45am	1	Branches of Pharmacology and development of new drugs			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30am	2	Introduction to Pathology/ General Microbiology		Prokaryotes vs. eukaryotes Branches of microbiology	Robins/Levinson	Pathology	45 min
9.30-10.15am	3	GENERAL ASPECTS OF FORENSIC TOXICOLOGY: sources ,forms, actions of poisons				Forensic Medicine	45 min
Hospital work 10.30-12.00							
12.10-2.00pm		Practical		Batch C: small group discussion Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
Day 2 03-01-2025 (Friday)							
8.00-8.45am	4	Active principles of Drugs			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30am	5	History taking of Infectious diseases				Medicine	45 min
9.30-10.15am	6	Bacterial cell structure		Cell wall composition and functions Intracellular structures and organelles Plasmids and spores		pathology	45 min

10.30 —12.00pm		PRACTICAL		Batch A: small group discussion Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 3 04-01-2025 (Saturday)							
8.00-8.45am	7	Bacterial growth		Nutritional requirements and types of bacteria on basis of nutritional requirements		Pathology	45 min
8.45-9.30am	8	Introduction to surgical Patients				Surgery	45 min
9.30-10.15am	9	Routes of administration of drugs			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
10.15-11.00am	10.					Pharmacology	45 min
11.00-11.45am	11.					Pathology	45 min
11.45-12.30pm	12.					Eye	45 min
12:45-02:30pm		Practical		Batch B: small group discussion Batch C: Pharmacology Batch A : Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 4 06-01-2025(Monday)							
8.00-8.45 am	13.	Diagnosis of poisoning(in living & dead)				Forensic Medicine	45 min
8.45-9.30am	14.	Transport of drugs across cell membrane			Basic and clinical pharmacology	Pharmacology	45 min
9.30-10.15am	15.	Pathogenesis				pathology	45 min
Hospital work 10.30-12.00							
12.10—02.00pm		PRACTICAL		Batch C: small group discussion Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

DAY 5 07-01-2025(Tuesday)							
8.00-8.45am	16.	Pathogenesis				pathology	45 min
8.45-9.30am	17.					Orthopedics	45 min
9.30-10.15am	18	General principles of treatment, medical and legal duties				Forensic Medicine	
Hospital work 10.30-12.00pm							
12.10am – 02:00 pm		PRACTICAL		Batch A: small group discussion Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 6 08-01-2025(Wednesday)							
8.00-8.45am	19.	Classification of medically important bacterial & normal flora			Robbins Pathology	Pathology	45 min
8.45-9.30am	20.	Common infections in ear, nose & throat		GRAM POSITIVE BACTERIA; Group A beta hemolytic streptococci Streptococcus pneumonia Staphylococcus aureus Streptococcus viridans		ENT	
9.30-10.15am	21.	Identification & preservation of evidentiary material, dispatch for analysis				Forensic Medicine	
Hospital work 10.30-12.00pm							
12.10pm — 02.00pm		PRACTICAL		Batch B: small group discussion Batch C: Pharmacology Batch A: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 7 09-01-2025 (Thursday)							
8.00-8.45am	22.	Laboratory Diagnosis of bacterial infections I		Approach to diagnosis		Pathology	45 min

8.45-9.30am	23	Absorption and factors affecting absorption of drugs bioavailability			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
9.30-10.15am	24	Laboratory Diagnosis of bacterial infections II		Antibiotic sensitivity testing		Pathology	45 min
Hospital work 10.30-12.00pm							
12.10-2.00pm		PRACTICAL		Batch C: small group discussion Batch A: Pharmacology Batch B: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 8 10-01-2025 (Friday)							
8.00-8.45am	25.	Sterilization & Disinfection I		Classification of disinfectants Methods of sterilization		Pathology	45min
8.45-9.30am	26.	Biotransformation & factors affecting them			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
9.30-10.15am	27.	Issuance of medico legal certificate in poisoning cases, related laws				Forensic Medicine	45 min
10.30 —12.00pm		PRACTICAL		Batch A: small group discussion Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 9 11-01-2025 (Saturday)							
8.00-8.45am	28.	Sterilization & Disinfection II			Robbins Pathology	Pathology	45 min
8.45-9.30am	29.	Excretion & plasma half life			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min

9.30-10.15am	30.	Basic concept of General Virology		Structure and classification pathogenesis		Pathology	45 min
10.15 – 11:00am	31.					Surgery	45 min
11.00- 11.45am	32.					Orthopedic	45 min
11:45-12.30pm	33.					Pathology	45 min
12.45—02.30pm		Practical		Batch B: small group discussion Batch C: Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 10 13-01-2025 (Monday)							
8.00-8.45am	34.	Excretion & plasma half life			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30am	35.	Fallacies in the results(Toxicological artifacts)				Forensic Medicine	45 min
9.30-10.15am	36.	Basic concept of General Mycology		Structure and classification pathogenesis		Pathology	45 min
Hospital work 10.30-12.00pm							
12.10—02.00pm		Practical		Batch C: small group discussion Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ Forensic radiological lab 12:45pm – 2:30pm	Class divisible in three batches	Respective departments	

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PROF. DR. AMBAREEN HAMID,
Chairperson
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MODULE

INFLAMMATION

DURATION **12 DAYS (01-02-2025 to 15-02-2025)**

CONTACT HOURS Lectures 39 =31.50 hours + Practicals = 30 Hours + Hospital stay = 12 Hours

CREDIT HOURS 2.6

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES

The course is designed primarily for 3rd year M.B.B.S students and will cover the fundamental aspects of inflammation, and pharmacology of anti-inflammatory drugs with interrelated clinical aspects of medicine, surgery, orthopaedic surgery, eye, nose and throat. By the end of the module the students should be able to:

1. Describe :

The cells and types of inflammation, cellular and vascular events of inflammation.

Process of phagocytosis.

Outcome of inflammatory process

Acute and chronic inflammatory conditions of nose and throat

Inflammatory conditions of orbit and eyelid

2. Discuss the role of:

Chemical mediators in inflammation and anti-inflammatory drugs.

Autocoids, serotonin and its antagonists.

Medicolegal certification in different injuries

3 .Elaborate

Types of Injuries along with their mechanics

Difference between antemortem/postmortem injuries

Systemic effects of inflammation and choice of analgesics.

TIME		COURSE CONTENT	PLAC E	LEARNING OUTCOME	Recommended books	DEPARTMEN T/ Facilitator	DURATION
WEEK 1							
DAY 1 01-02-25 (Saturday)							
8.00-8.45am	1	General Features and types of inflammation, Historical background, its cardinal signs. Acute Inflammation: introduction and stimuli leading to inflammation and vascular events.		Understanding the general concept of inflammation and being able to - define inflammation along with its types and cardinal signs - vascular changes such as change in caliber and vascular flow as well as vascular leakage.	Robbins Pathology	Pathology	45 min
8.45- 9.30 am	2	Clinical aspects of inflammation (immune, infections, chemical). Clinical differences between acute and chronic inflammation				Medicine	45 mins
9.30-10.15am	3	Classification of non-steroidal anti-inflammatory drugs. Pharmacokinetics of NSAIDs		Student should be able to enumerate various NSAIDs and understand their routes of administration absorption, distribution, metabolism and excretion.	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
10:15-11:00am	4					Forensic Medicine	45 min
11:00-11:45am	5					Forensic Medicine	45 min
11:45-12:30pm	6					Pharmacology	45 min
12:45-02:30pm		Practical		Batch B: Acute appendicitis Batch C: Small group discussion Batch A: General description of injury regarding age of injury.	Class divisible in three batches	Respective departments	

9.30-10.15am	12.	Autacoids histamine and antihistamine.		Student should be able to recall various generations of antihistamines and role of antihistamine in allergic conditions. Their adverse effects and drug interactions.	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
Hospital work 10.30-12.00							
12.10 -2.00pm		PRACTICAL		Batch A: Acute Appendicitis Batch B : Small group discussion Batch C: General description of injury regarding age of injury.	Class divisible in three batches	Respective departments	
DAY 4 06-02-25 (Thursday)							
8.00-8.45am	13	Serotonin agonist and antagonists		Student should be able to explain/understand the use of serotonin agonist and antagonists	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 Min
8.45-9.30am	14	Cell derived chemical mediators of inflammation cont: Details of cytokines,TNF,Chemokines,Reactive oxygen species and nitrous oxide		Students should have sound knowledge of Different components of cytokines and chemokines		Pathology	45 min
9.30-10.15 am	15	Clinical aspects of acute and chronic inflammation. An introduction to vasculitis.				Medicine	45 mins
Hospital Work 10.30-12.00							
12.10-02:00pm		PRACTICAL		BATCH C: Chronic cholecystitis Batch A: Small group Discussion Batch B: Certification of injury MLC's	Class divisible in three batches	Respective departments	

DAY 5 07-02-25 (Friday)							
8.00-8.45am	16.					Forensic Medicine	45 mins
8.45am-9.30am	17	Regional Injuries/Manner of Injuries		Student should be able to enumerate Regional Injuries/Manner Of Injuries		Forensic medicine	45 min
9.30-10.15am	18	Overview of Acute inflammatory conditions of nose and throat.		Students should be able to describe: Acute tonsillitis Acute pharyngitis Acute laryngitis Acute sinusitis		ENT	45 mins
10.30 - 12.00pm		PRACTICAL		Batch A: Chronic cholecystitis Batch B: small group discussion Batch C: Certification of injury MLC's	Class divisible in three batches	Respective departments	
DAY 6 08-02-25(Saturday)							
8.00-8.45am	19	Cellulitis, Boils, Folliculitis, Impetigo & erythema		Students should have sound understanding of acute inflammatory condition		Surgery	45 min
8.45-9.30am	20.	Prostaglandins pharmacological effects, Clinical uses of prostaglandins		The use of prostaglandins in various clinical conditions	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
9.30-10.15am	21.	Cell derived Chemical Mediators of Inflammation : details of Vasoactive amines Arachidonic acid metabolites ,Platelet activation factors.		Student should have a sound knowledge of - Prostaglandins and leucotrienes - Differences between different mediators involved in cyclooxygenase and lipooxygenase pathways.	Robbins pathology	Pathology	45 mins

10.15-11:00am	22.					Surgery	
11:00-11:45am	23.					Pathology	
11:45-12:30pm	24.					Forensic Medicine	
12.45-02.30		PRACTICAL		Batch B: ESR determination and its importance Batch C: Therapeutic modalities and choice of analgesics Batch A: Trauma cases which are kept under observation	Class divisible in three batches	Respective departments	
DAY 7 10-02-25 (Monday)							
8.00-8.45am	25.	Bacterimia, Pyaemia, Sepsis, Abscess, Septic Shock		Students should be able to describe various inflammatory processes.		Surgery	45 mins
8.45-9.30am	26.	Disease modifying anti- rheumatic drugs (DMARDS)		Student should be able to enumerate DMARDS and explain their MOA, adverse effects and contraindications	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 mins
9.30-10.15am	27.	Plasma protein derived Chemical Mediators of inflammation (details of complement system, kinin system, clotting system)		. The student should be able to i) Enumerate vasoactive amines ii) Describe the 3 systems of plasma proteins integrating during course of inflammation	Robbins Pathology	Pathology	45 min
Hospital work 10.30-12.00							
12.10-02.00		PRACTICAL		Batch C : ESR determination and its importance Batch A : Therapeutic modalities and choice of analgesics Batch B: Trauma cases which are kept under observation	Class divisible in three batches	Respective departments	

DAY 8		11-02-25 (Tuesday)					
8.00-8.45am	27.	Phagocytosis.		Student should develop the understanding of leucocyte activation and being able to describe: • Recognition and attachment of leucocytes • Engulfement • Killing and degradation • Release of leucocyte products and tissue injury caused by it Briefly the defects in leucocyte dysfunction and its effects on inflammation		Pathology	45 MIN
8.45- 9.30 am	28.	Glucocorticoids P/K:Therapeutic indications, Adverse effects, contraindications and drug interactions		Student should be able to explain p/k of various glucocorticoids, their clinical uses ,adverse effects, contraindications and drug interactions	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 mins
9.30-10.15 am	29.	Investigation and management of inflammatory case.				Medicine	45 Mins
Hospital work		10.30-12.00					
12.10-2.00		Practical		Batch A: ESR determination and its importance Batch B: Therapeutic modalities and choice of analgesics Batch C :Trauma cases which are kept under observation	Class divisible in three batches	Respective departments	

DAY 9 12-02-25 (Wednesday)							
8.00-8.45am	30.	Drugs/Age Of Injury		Students should have understanding of various drugs and be able to define age of injury		Forensic Medicine and Toxicology	45 MIN
8.45-9.30 am	31.	Phagocytosis by macrophages		Students should have sound knowledge of various recetors present on macrophages, their function and steps of phagocytosis in machrophages.		Pathology	45 mins
9.30- 10.15 am	32.	Antagonists of adrenocortical agents		They should have a sound knowledge of adverse effects and contraindications to the use of adrenocortical agents.	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 mins
Hospital work 10.30-12.00							
12.10-2.00		Practical		Batch B: ESR determination and its importance Batch C : Therapeutic modalities and choice of analgesics Batch A : Trauma cases which are kept under observation	Class divisible in three batches	Respective departments	
DAY 10 13-02-25 (Thursday)							
8.00-8.45am	33	Lymphangitis, Fascitis, Folliculitis		Students should be able to describe the the various acute inflammatory coditions		Surgery	45 mins
8.45-9.30 am	34.	Inflammatory conditions of eye : Stye,Chlazon,Blephritis, Preseptal Cellulitis and Herpes zoster Infection		Students should be able to identify the various inflammatory conditions of eye.		Eye	45 mins
9.30-10.15 am	35	Anti TB drugs		Students should have knowledge of various Anti tuberculous drugs and their adverse effects.	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	

Hospital work				10.30-12.00			
12.10-02.00		Practical		Batch C: Tuberculosis of lung/ Granuloma Batch A: small group discussion Batch B: (Final Opinion) Interpretation of results	Class divisible in three batches	Respective departments	
DAY 11 14-02-25 (Friday)							
8.00-8.45am	36	Overview of chronic inflammatory conditions of nose and throat.		Students should be able to describe: Chronic tonsillitis Quinsy(Peritonsillar Abscess) Chronic pharyngitis Chronic laryngitis Chronic sinusitis Rhinitis		ENT	45 mins
8.45-9.30am	37	Inflammatory conditions of bones and joints		Students should develop understanding of mechanism and complications of wound contamination		Orthopaedics	45 mins
9.30-10.15 am	38	Orbital Cellulitis, Pseudo tumors of orbit , Dacrocystitis		Students should be able to describe Orbital Cellulitis, Pseudo tumors of orbit , Dacrocystitis		Eye	45 mins
10.30- 12.00 pm		Practical		Batch A: Tuberculosis of lung/ Granuloma Batch B : small group discussion Batch C : (Final Opinion) Interpretation of results	Class divisible in three batches	Respective departments	
Day 12 15-02-25 (Saturday)							
8.00-8.45am	39	Paronychia , Subungal abscess,Hideradenitis		Students should be able to describe the acute inflammatory conditions and should have sound knowledge of septic shock		Dermatology	45 MIN

8.45-9.30am	40	Mineralocorticoid and mineralocorticoid antagonist .		Student should be able to understand uses of various mineralocorticoid agonist and antagonist.	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 mins
9.30-10.15am	41	Chronic Inflammation:Granulomatous Inflammation with special emphasis on Tuberculosis		Student should be able to describe • Cells of Chronic inflammation • Formation of granuloma • Tuberculous granuloma		Pathology	45 MIN
10.15-11:00am	42					Surgery	45 MIN
11.00-11.45am	43					Pathology	45 MIN
11.45-12.30pm	44					Forensic Medicine	45 MIN
12.45-02:30pm		Practical		Batch B : Tuberculosis of lung/ Granuloma Batch C: small group discussion Batch A: (Final Opinion) Interpretation of results	Class divisible in three batches	Respective departments	

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TIME TABLE OF 3rd YEAR MBBS (Generalized Module& 1stIntermodule) (2024-2025)

GENERALIZED MODULE 02-01-2025 TO 13-01-2025								
Date	Day	8.00-8.45am	8.45-9.30am	9.30-10.15am	Hospital work 10.30-12.00pm			Practical 12.10-02.00 pm
02-01-25	Thursday	Pharmacology	Pathology	Forensic Medicine	Hospital work 10:30 am to 12:00 pm			C: Pathology A: Pharmacology B: Forensic medicine
03-01-25	Friday	Pharmacology	Medicine	Pathology	Practical Respective Departments (10:30am to 12:00pm)			A: Pathology B: Pharmacology C: Forensic medicine
04-01-25	Saturday	Pathology	Surgery	Pharmacology	Pharmacology (10.15-11.00 am)	Pathology (11.00-11.45am)	EYE (11.45-12.30 pm)	B: Pathology C: Pharmacology A: Forensic medicine (12:45 am to 02:30 pm)
06-01-25	Monday	Forensic Medicine	Pharmacology	Pathology	Hospital work 10:30 am to 12:00 pm			C: Pathology A: Pharmacology B: Forensic medicine (12:45 pm to 2:30pm)
07-01-25	Tuesday	Pathology	Orthopedics	Forensic Medicine	Hospital work 10:30 am to 12:00 pm			A: Pathology B: Pharmacology C: Forensic medicine
08-01-25	Wednesday	Pathology	ENT	Forensic Medicine	Hospital work 10:30 am to 12:00 pm			B: Pathology C: Pharmacology A: Forensic medicine
09-01-25	Thursday	Pathology	Pharmacology	Pathology	Hospital work 10:30 am to 12:00 pm			C: Pathology A: Pharmacology B: Forensic medicine
10-01-25	Friday	Pathology	Pharmacology	Forensic Medicine	Practical Respective Departments (10:30am to 12:00pm)			A: Pathology B: Pharmacology C: Forensic medicine
11-01-25	Saturday	Pathology	Pharmacology	Forensic Medicine	Surgery (10.15-11.00)	Orthopedics (11.00-11.45)	Pathology (11.45-12.30)	B: Pathology C: Pharmacology A: Forensic medicine (12:45 am to 02:30 pm)
13-01-25	Monday	Pharmacology	Forensic Medicine	Pathology	Hospital work 10:30 am to 12:00 pm			C: Pathology A: Pharmacology B: Forensic medicine

1ST INTERMODULE (14-01-2025 TO 30-01-2025)

14-01-25	Tuesday	Pathology	Medicine	Surgery	Hospital work 10:30 am to 12:00 pm			A: Pathology B:Pharmacology C: Forensic medicine
15-01-25	Wednesday	Pharmacology	Pathology	Forensic Medicine	Hospital work 10:30 am to 12:00 pm			B: Pathology C:Pharmacology A: Forensic medicine
16-01-25	Thursday	Pharmacology	ENT	Pathology	Hospital work 10:30 am to 12:00 pm			C: Pathology A:Pharmacology B: Forensic medicine
17-01-25	Friday	Forensic Medicine	Pharmacology	Pathology	Practical Respective Departments (10:30am to 12:00pm)			A: Pathology B:Pharmacology C: Forensic medicine
18-01-25	Saturday	Surgery	ENT	Medicine	Forensic Medicine 10:15-11:00	Pathology 11:00-11:45	Pharmacology 11:45-12:30	B: Pathology C:Pharmacology A: Forensic medicine (12:45 pm to 02:30pm)
20-01-25	Monday	Medicine	Orthopaedics	Pathology	Hospital work 10:30 am to 12:00 pm			C: Pathology A:Pharmacology B: Forensic medicine
21-01-25	Tuesday	Pathology	Pharmacology	Pathology	Hospital work 10:30 am to 12:00 pm			A: Pathology B:Pharmacology C: Forensic medicine
22-01-25	Wednesday	Pharmacology	Forensic Medicine	Pathology	Hospital work 10:30 am to 12:00 pm			B: Pathology C:Pharmacology A: Forensic medicine
23-01-25	Thursday	Forensic Medicine	Pharmacology	Pathology	Hospital work 10:30 am to 12:00 pm			C: Pathology A:Pharmacology B: Forensic Medicine
24-01-25	Friday	Forensic Medicine	Pharmacology	Pathology	Practical Respective Departments (10:30am to 12:00pm)			A: Pathology B:Pharmacology C: Forensic medicine (10:30 am to 12:00 pm)
25-01-25	Saturday	Surgery	Pathology	Pharmacology	Pharmacology 10:15-11:00	Forensic Medicine 11:00-11:45	EYE 11:45-12:30	B: Pathology C:Pharmacology A: Forensic medicine (12:45 pm to 02:30pm)
27-01-25	Monday	Forensic Medicine	Pathology	Surgery	Hospital work 10:30 am to 12:00 pm			C: Pathology A:Pharmacology

						B: Forensic medicine
28-01-25	Tuesday	Forensic Medicine	Pharmacology	Pathology	Hospital work 10:30 am to 12:00 pm	A: Pathology B: Pharmacology C: Forensic medicine
29-01-25	Wednesday	Pharmacology	Pathology	Forensic Medicine	Hospital work 10:30 am to 12:00 pm	B: Pathology C: Pharmacology A: Forensic medicine
30-01-25	Thursday	Pathology	Pharmacology	Forensic Medicine	Hospital work 10:30 am to 12:00 pm	C: Pathology A: Pharmacology B: Forensic medicine

All lectures will be conducted in Forensic Lecture Theatre.

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TIME TABLE OF 3rd YEAR MBBS (Inflammation & 2nd Intermodule)
1st February, 2025 to 05th March, 2025

INFLAMMATION MODULE (28th February 2024 To 12th March 2024)								
Date	Day	8.00-8.45 am	8.45-9.30am	9.30-10.15am	Hospital work 10.30-12.00pm			Practical 12:10Pm-02:00PM
01-02-25	Sat	Pathology	Medicine	Pharmacology	10:15-11:00 Forensic Medicine	11:00-11:45 Forensic Medicine	11:45-12:30 Pharmacology	B: Pathology C: Pharmacology A: Forensic medicine (12:45pm to 02:30pm)
03-02-25	Mon	Pharmacology	Pharmacology	Pathology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
04-02-25	Tue	Forensic Medicine	Pharmacology	Pharmacology	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
06-02-25	Thu	Pharmacology	Pathology	Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
07-02-25	Fri	Forensic Medicine (Test)		ENT	PRACTICAL 10.30-12:00			A: Pathology B: Pharmacology C: Forensic medicine
08-02-25	Sat	Surgery	Pharmacology	Pathology	10:15-11:00 Surgery	11:00-11:45 Pathology	11:45-12:30 Forensic Medicine	B: Pathology C: Pharmacology A: Forensic medicine (12:45pm to 02:30pm)
10-02-25	Mon	Surgery	Pharmacology	Pathology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
11-02-25	Tue	Pathology	Pharmacology	Medicine	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
12-02-25	Wed	Forensic medicine	Pathology	Pharmacology	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine

13-02-25	Thu	Surgery	Eye	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
14-02-25	Fri	ENT	Orthopaedics	Eye	PRACTICAL 10.30-12:00			A: Pathology B: Pharmacology C: Forensic medicine
15-02-25	Sat	Dermatology	Pharmacology	Pathology	10:15-11:00 Surgery	11:00-11:45 Pathology	11:45-12:30 Forensic Medicine	B: Pathology C: Pharmacology A: Forensic medicine (12:45pm to 02:30pm)
2nd Intermodule (17th February, 2025 to 05th March, 2025)								
17-02-25	Mon	Surgery	Forensic Medicine	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
18-02-25	Tue	Medicine	Pharmacology	Forensic Medicine	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
19-02-25	Wed	Forensic Medicine	Pharmacology	Orthopaedics	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine
20-02-25	Thu	Pharmacology	Forensic Medicine	Pathology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
21-02-25	Fri	Forensic Medicine	Pharmacology	Medicine	PRACTICAL 10.30-12:00			A: Pathology B: Pharmacology C: Forensic medicine
22-02-25	Sat	Forensic Medicine	Medicine	Pharmacology	10:15-11:00 Orthopedics	11:00-11:45 ENT	11:45-12:30 Eye	B: Pathology C: Pharmacology A: Forensic medicine (12:45PM to 02:30pm)
24-02-25	Mon	Forensic Medicine	Pharmacology	Pathology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
25-02-25	Tue	Forensic Medicine	Surgery	Forensic Medicine	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine

26-02-25	Wed	ENT	Forensic Medicine	Surgery	Hospital work 10.30-12.00pm	B: Pathology C: Pharmacology A: Forensic medicine
27-02-25	Thu	Forensic Medicine	Surgery	Forensic Medicine	Hospital work 10.30-12.00pm	C: Pathology A: Pharmacology B: Forensic medicine
28-02-25	Fri	SELF STUDY		Hospital work 10.30-12.00pm		
01-03-25	Sat	Pathology Assessment (09:00a.m. to 10:00a.m.)		Hospital work 10.30-12.00pm		
03-03-25	Mon	Forensic Medicine Assessment (09:00a.m. to 10:00a.m.)		Hospital work 10.30-12.00pm		
04-03-25	Tue	SELF STUDY		Hospital work 10.30-12.00pm		
05-03-25	Wed	Pharmacology Assessment (09:00a.m. to 10:00a.m.)		Hospital work 10.30-12.00pm		

All lectures will be conducted in Forensic Lecture Theatre

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2nd INTERMODULE

[illegible]

CONTACT HOURS Lectures =22.5 hours + Practicals = 22.50 Hours + Hospital stay = 10.5 HOURS

CREDIT HOURS = 2.0

TEACHING METHODOLOGIES Lectures/Practicals/clinics

OBJECTIVES

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
DAY 1 17-02-2025 (Monday)							
8.00-8.45	1	-				SURGERY	45 min
8.45-9.30	2	Drug dependence, Polydrug abuse & identification of addiction at autopsy				Forensic medicine	45 min
9.30-10.15	3	CVS			Basic and clinical pharmacology 12 th edition Katzung	Pharmacology	45 min
HOSPITAL WORK 10:30 – 12:00							
12.10—02.00		Practical		Batch C: Group discussions Batch A : Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 2 18-02-25 (Tuesday)							
8.00-8.45	6.	Symptoms of Neurological system		Coma Upper motor neuron hemiplegia- paraplegia Lower motor neuron paraplegia Headaches Seizure Movement disorders (parkinsonism)		Medicine	45 min

8.45-9.30	7.	CVS			Basic and clinical pharmacology 12 th edition Katzung	Pharmacology	45 min
9.30-10.15	8.	Alcohols/Forensic medical examination, diagnosis & certification in living & dead				Forensic medicine	45 min
HOSPITAL WORK 10:30 – 12:00							
12.10-02.00		PRACTICAL		Batch A: Group Discussions Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 3 19-02-25 (Wednesday)							
8.00-8.45	9.	Hypnotics & sedatives				Forensic medicine	45 min
8.45-9.30	10.	CVS			Basic and clinical pharmacology 12 th edition Katzung	Pharmacology	45 min
9.30-10.15	11.					Orthopaedics	45 min
HOSPITAL WORK 10:30 – 12:00							
12.10 — 02.00pm		PRACTICAL		Batch B: Group Discussions Batch C : Pharmacology Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 4 20-02-25 (Thursday)							
8.00-8.45	12.					Pharmacology	45 min
8.45-9.30	13.	Hallucinogens: Cannabis, cocaine				Forensic medicine	45 min
9.30-10.15	14.	Healing by repair & scar formation				Pathology	45 min

HOSPITAL WORK 10:30 – 12:00							
12.10-02.00p.m.		PRACTICAL		BATCH C : Group Discussions Batch A : Pharmacology Batch B : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 5 21-02-25(Friday)							
8.00-8.45	15	Insecticides ,venomous insects & snakes				Forensic medicine	45 min
8.45-9.30	16	CVS			Basic and clinical pharmacology	Pharmacology	45 min
9.30-10.15	17					Medicine	45 min
10.30-12.00p.m.		PRACTICAL		Batch A: Group Discussions Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 6 22-02-2025 (Saturday)							
8.00-8.45	21.	Statue laws related to dangerous drugs				Forensic medicine	45 min
8.45-9.30	22.	-		-		Medicine	45 min
9.30-10.15	23				Basic and clinical pharmacology 12 th edition Katzung	Pharmacology	45 MIN
10.15-11:00am	24					Orthopedics	45 min
11:00-11:45am	25					ENT	45 min
11:45am- 12:30pm	26					Eye	45 min
12.45-2.30		PRACTICAL		Batch B: Group Discussions Batch C: Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

DAY 7 24-02-25 (Monday)							
8.00-8.45	27.	Agrarian toxicology; Poisonous plants			-	Forensic medicine	45 min
8.45-9.30	28.	CVS				Pharmacology	45 min
9.30-10.15	29.					Pathology	45 min
Hospital work 10.30-12.00							
12.10 —2.00		Practical		Batch C: Group Discussions Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	12.10—2.30
DAY 8 25-02-25 (Tuesday)							
8.00-8.45	30.	ENVIRONMENTAL TOXICOLOGY; Poisoning by CO,CO2, H2S, methane „Forensic medical examination & certification as cause of death				Forensic medicine	45 min
8.45-9.30	31.	-	-	-		Surgery	45 min
9.30-10.15	32.	Pesticides				Forensic medicine	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch A: Group Discussions Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 9 26-02-25 (Wednesday)							
8.00-8.45	33					ENT	45 min
8.45-9.30	34.	Herbicide				Forensic medicine	45 min
9.30-10.15	35					Surgery	45 min

Hospital work10.30-12.00							
12.10—02.00p.m		Practical		Batch B : Group Discussions Batch C: Pharmacology Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
Day 1027-02-25 (Thursday)							
8.00-8.45 am	36	Medicolegal Importance according to Qisas and Diyat law (Nature of injury)		Students should have thorough understanding of medicolegal importance of Islamic law		Forensic medicine and Toxicology	45mins
8.45-9.30 am	37					Surgery	45 mins
9.30-10.15 am	38	Complications of Injury		-		Forensic Medicine and Toxicology	45 mins
Hospital work10.30-12.00							
12.10-02.00pm				Batch C: Group discussions Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab			
28-02-2025 (Friday)		SELF STUDY			HOSPITAL WORK 10.30-12.00p.m.		
01-03-2025 (Saturday)		Pathology Assessment (09:00a.m- 10:00a.m.)			HOSPITAL WORK 10.30-12.00p.m.		
03-03-2025 (Monday)		Forensic Medicine Assessment (09:00a.m- 10:00a.m.)					
04-03-2025 (Tuesday)		SELF STUDY			HOSPITAL WORK 10.30-12.00p.m.		
05-03-2025 (Wednesday)		PHARMACOLOGY ASSESSMENT (09:00a.m- 10:00a.m.)			HOSPITAL WORK 10.30-12.00p.m.		

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TIME TABLE OF 3rd YEAR MBBS (Special Microbiology Module)
(06-03-2025 to 21-05-2025)

Date	Day	8.00-8.45 am	8.45-9.30am	9.30-10.15am	Hospital work			Practical (12.10-2.00 pm)
06-03-2025	Thursday	Surgery	Pathology	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
07-03-2025	Friday	Pathology	Medicine	Forensic Medicine	Practical Respective Departments 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
08-03-2025	Saturday	Pharmacology	Pathology	Medicine	Orthopedics 10:15-11:00am	ENT 11:00-11:45am	EYE 11:45-12:30Noon	B: Pathology C: Pharmacology A: Forensic medicine (12.45-2.30pm)
10-03-2025	Monday	Pharmacology	Pathology	Forensic Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
11-03-2025	Tuesday	Forensic medicine	Pathology	Surgery	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
12-03-2025	Wednesday	Pharmacology	Pathology	Forensic Medicine	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine
13-03-2025	Thursday	Pathology	Surgery	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
14-03-2025	Friday	Pathology	Medicine	Surgery	Practical Respective Departments 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
15-03-2025	Saturday	Pathology	Medicine	Pharmacology	Forensic Medicine 10:15-11:00am	ENT 11:00-11:45am	EYE 11:45-12:30Noon	B: Pathology C: Pharmacology A: Forensic medicine (12.45-2.30pm)
17-03-2025	Monday	Pharmacology	Pathology	Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine

18-03-2025	Tuesday	Surgery	Pharmacology	Pathology	Hospital work 10.30-12.00pm			A: Pathology B:Pharmacology C: Forensic medicine
19-03-2025	Wednesday	Pathology	Dermatology	Pharmacology	Hospital work 10.30-12.00pm			B: Pathology C:Pharmacology A: Forensic medicine
20-03-2025	Thursday	Forensic Medicine	Pathology	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A:Pharmacology B: Forensic medicine
21-03-2025	Friday	Pathology	Urology	Forensic Medicine	Practical Respective Departments 10.30-12.00pm			A: Pathology B:Pharmacology C: Forensic medicine
22-03-2025	Saturday	Pathology	Medicine	Pharmacology	Surgery 10:15- 11:00am	Medicine 11:00- 11:45am	EYE 11:45- 12:30Noon	B: Pathology C:Pharmacology A: Forensic medicine (12.45-2.30pm)
24-03-2025	Monday	Pharmacology	Forensic Medicine	Medicine	Hospital work 10.30-12.00pm			C: Pathology A:Pharmacology B: Forensic medicine
25-03-2025	Tuesday	Forensic Medicine	Pharmacology	Pathology	Hospital work 10.30-12.00pm			A: Pathology B:Pharmacology C: Forensic medicine
26-03-2025	Wednesday	Pharmacology	Pharmacology	Orthopedics	Hospital work 10.30-12.00pm			B: Pathology C:Pharmacology A: Forensic medicine
27-03-2025	Thursday	Forensic Medicine	Pharmacology	Pathology	Hospital work 10.30-12.00pm			C: Pathology A:Pharmacology B: Forensic medicine
28-03-2025	Friday	Forensic Medicine	Medicine	Forensic Medicine	Practical Respective Departments 10.30-12.00pm			A: Pathology B:Pharmacology C: Forensic medicine
29-03-2025	Saturday	Pharmacology	Forensic Medicine	Forensic Medicine	Pathology 10:15- 11:00am	Pharmacology 11:00- 11:45am	ENT 11:45- 12:30Noon	B: Pathology C:Pharmacology A: Forensic medicine (12.45-2.30pm)
31-03-2025	Monday	Surgery	Medicine	Pathology	Hospital work 10.30-12.00pm			C: Pathology A:Pharmacology B: Forensic medicine

09-04-2025	Wednesday	Pathology	Medicine	Pathology	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine
10-04-2025	Thursday	Forensic Medicine	Pathology	Surgery	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
11-04-2025	Friday	Physiology	Pharmacology	Pathology	Practical Respective Departments 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
12-04-2025	Saturday	Orthopedics	Pathology	Pharmacology	Pharmacology 10:15- 11:00am	Forensic Medicine 11:00- 11:45am	Orthopedics 11:45- 12:30Noon	B: Pathology C: Pharmacology A: Forensic medicine (12.45-2.30pm)
14-04-2025	Monday	Pathology	Forensic Medicine	Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
15-04-2025	Tuesday	Pathology	Forensic Medicine	Pathology	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
16-04-2025	Wednesday	Pathology	Surgery	Forensic Medicine	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic Medicine
17-04-2025	Thursday	Forensic Medicine	Medicine	Pathology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
18-04-2025	Friday	Surgery	Pathology	Medicine	Practical Respective Departments 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
19-04-2025	Saturday	EYE	Orthopedics	Pathology	Forensic Medicine 10:15- 11:00am	ENT 11:00- 11:45am	Pathology 11:45- 12:30Noon	B: Pathology C: Pharmacology A: Forensic Medicine (12.45-2.30pm)
21-04-2025	Monday	Pathology	Forensic Medicine	Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
22-04-2025	Tuesday	Pathology	Surgery	Forensic Medicine	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
23-04-2025	Wednesday	Pathology	Medicine	Pharmacology	Hospital work			B: Pathology

					10.30-12.00pm			C: Pharmacology A: Forensic Medicine
24-04-2025	Thursday	Pathology	Medicine	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
25-04-2025	Friday	Surgery	Pathology	Pharmacology	Practical Respective Departments 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
26-04-2025	Saturday	Forensic Medicine	ENT	EYE	ENT 10:15- 11:00am	Pharmacol ogy 11:00- 11:45am	Pharmacolo gy 11:45- 12:30Noon	B: Pathology C: Pharmacology A: Forensic Medicine (12.45-2.30pm)
28-04-2025	Monday	Pharmacology	Pathology	Forensic Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
29-04-2025	Tuesday	Pathology	Medicine	Forensic Medicine	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
30-04-2025	Wednesday	Surgery	Forensic Medicine	Pathology	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic Medicine
02-05-2025	Friday	Pharmacology	Surgery	Pathology	Practical Respective Departments 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
03-05-2025	Saturday	Forensic Medicine	Pathology	Orthopedics	Pathology 10:15- 11:00am	Surgery 11:00- 11:45am	Pharmacolo gy 11:45- 12:30Noon	B: Pathology C: Pharmacology A: Forensic Medicine (12.45-2.30pm)
05-05-2025	Monday	Forensic Medicine	Forensic Medicine	Pathology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
06-05-2025	Tuesday	Pathology	ENT	EYE	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
07-05-2025	Wednesday	Forensic Medicine	Pathology	Orthopedics	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic Medicine

08-05-2025	Thursday	Pathology	Forensic Medicine	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
09-05-2025	Friday	Pathology	DME	Pharmacology	Practical Respective Departments 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
10-05-2025	Saturday	EYE	Pathology	Orthopedics	Pharmacology (10:15-11:00am)	Forensic Medicine (11:00-11:45am)	Orthopedics (11:45-12:30PM)	B: Pathology C: Pharmacology A: Forensic Medicine (12:45PM to 02:30PM)
12-05-2025	Monday	ENT	Forensic Medicine	Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
13-05-2025	Tuesday	Forensic Medicine	Pharmacology	Orthopedics	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic Medicine
14-05-2025	Wednesday	Forensic Medicine	Pathology	EYE	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic Medicine
15-05-2025	Thursday	Surgery	Forensic Medicine	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic Medicine
16-05-2025	Friday	Self-Study			Hospital work 10.30-12.00pm			
17-05-2025	Saturday	Pathology Assessment (Special Bacteriology) (09:00am to 10:00am)			Hospital work 10.30-12.00pm			
19-05-2025	Monday	Forensic Assessment (09:00am to 10:00am)			Hospital work 10.30-12.00pm			
20-05-2025	Tuesday	Self-Study			Hospital work 10.30-12.00pm			
21-05-2025	Wednesday	Pharmacology Assessment (09:00am to 10:00am)			Hospital work 10.30-12.00pm			

All lectures and assessment will be conducted in Forensic Lecture Theatre.

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MODULE

SPECIAL MICROBIOLOGY

DURATION **58 DAYS (06th March, 2025 to 21st May, 2025)**

CONTACT HOURS Lectures 168 = 126 hours + Practicals = 48 Hours + Hospital stay = 120 Hours

CREDIT HOURS 11.9

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES:

This integrated module of special microbiology is proposed for 3rd year M.B;B.S. It will introduce the class with microorganisms, the various diseases produced by them and their clinical presentations. It is intended to extend knowledge, understanding and practical skills in the field of microbiology.

By the end of the module the students should have acquired a basic theoretical and practical knowledge of:

Antimicrobial agents and their use,

Clinical microbiology

Parasitology and mycology

Medical, surgical and allied (Eye, ENT, Orthopaedic surgery) related infections and their clinical presentation

A core knowledge of forensic medicine and toxicology will also be included in this module.

The course is intended to cover the capabilities of:

Knowledge (Of microbes and antimicrobial agents)

Technical expertise (Handling of samples, examination of urine and stool specimens, interpretation of antibiogram and various biochemical tests, performing autopsies etc)

Critical analysis and problem solving) (small group discussions, tutorials)

Communication (working in clinics, studying clinical cases)

TIME			PLAC E	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURAT ION
DAY 1 06-03-2025 (Thursday)							
8.00-8.45am	1.	Overview of Bacteraemia and Septicaemia				Surgery	
8.45-9.30am	2.	Staphylococcus aureus (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15am	3.	Principles of antimicrobial drug action				Pharmacology	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch C: Gram staining Batch A : Small group discussion Batch B: Medico legal autopsies	Class divisible in three batches	Respective departments	
DAY 2 07-03-2025 (Friday)							
8.00-8.45am	4.	Streptococcus pneumonia, Beta hemolytic Streptococcus type a and b (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30am	5.	Pneumonia				Medicine	45 mins
9.30-10.15am	6.	Objectives, rules and techniques of autopsy				Forensic Medicine	45 mins
10.30—12.00pm		Practical		Batch A: Gram staining Batch B : Small group discussion Batch C : Medico legal autopsies	Class divisible in three batches	Respective departments	
DAY 3 08-03-2025 (Saturday)							
8.00-8.45am	7.	Penicillines and cephalosporins (1)				Pharmacology	45 mins

8.45-9.30am	8.	Beta Haemolytic streptococci (Cont) ,Diphtheria Sp. (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15am	9.	Infective endocarditis				Medicine	45 mins
10.15-11.00am						Orthopedics	
11.00-11.45am						ENT	
11.45-12.30am						EYE	
12.45—2.30pm		PRACTICAL		Batch B: Gram staining Batch C: Small group discussion Batch A: Medico legal autopsies	Class divisible in three batches	Respective departments	
DAY 4 10-03-2025 (Monday)							
8.00-8.45am	10.	Penicillines and cephalosporins (2)				Pharmacology	45 min
8.45-9.30am	11.	Bacillus anthracis, Bordetella sp. (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15am	12.	Biological weapons (Anthrax, tetanus etc)				Forensic Medicine	45 mins
Hospital work 10.30-12.00							
12.10—2.00 pm		PRACTICAL		Batch C : Oxidase and catalase test Batch A : Small group discussion Batch B : Examination of stomach contents	Class divisible in three batches	Respective departments	

DAY 5 11-03-2025 (Tuesday)							
8.00-8.45am	13.	Preperation of autopsy protocol, types of autopsy				Forensic Medicine	45 min
8.45-9.30am	14.	Actinomyces israelli, Nocardia asteroides (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15am	15	Actinomycosis ,Anthrax and Gonorrhea				surgery	45 mins
Hospital work 10.30-12.00							
12.10-02:00 pm		PRACTICAL		Batch A: Oxidase and catalase test. Batch B: Small group discussion Batch C : Examination of stomach contents	Class divisible in three batches	Respective departments	
DAY 6 12-03-2025 (Wednesday)							
8.00-8.45am	16.	Penicillines and cephalosporins (3)				Pharmacology	45 min
8.45-9.30 am	17.	Clostridium difficile, Clostridium botulinum (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15am	18.	Food poisoning including botulism				Forensic Medicine	45 mins
Hospital work 10.30-12.00							
12.10—2.00 pm		PRACTICAL		Batch B: Oxidase and catalase test. Batch C: Small group discussion Batch A : Examination of stomach contents	Class divisible in three batches	Respective departments	

Day 7 13-03-2025 (Thursday)							
8.00-8.45am	22.	Clostridium perfringens (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
8.45-9.30am	23.	Gas gangrene and synergistic gangrene				Surgery	45 mins
9.30-10.15am	24.	Sulphonamides and trimethoprim				Pharmacology	45 mins
Hospital work 10.30-12.00							
12.10 — 02.00pm		PRACTICAL		Batch C : Various culture media Batch A : Small group discussion Batch B: Preparation of autopsy report (certification)	Class divisible in three batches	Respective departments	
DAY 8 14-03-2025 (Friday)							
8.00-8.45 am	25.	Clostridium tetani (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45mins
8.45-9.30 am	26.	Tetanus				Medicine	45 mins
9.30-10.15 am	27.	Surgical aspects of tetanus				Surgery	45 Mins
10.30-12.00pm		Practical		Batch A : Various culture media Batch B: Small group discussion Batch C : Preparation of autopsy report (certification)	Class divisible in three batches	Respective departments	
DAY 9 15-03-2025 (Saturday)							
8.00-8.45 am	28.	Neisseria meningitidis, Neisseria gonorrhoeae (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins

8.45-9.30 am	29.	Meningitis				Medicine	45 mins
9.30-10.15 am	30.	Macrolides				Pharmacology	45 mins
10.15-11.00 am						Forensic Medicine	45 mins
11.00-11.45 am						ENT	45 mins
11.45-12.30pm						EYE	45 mins
12.45—2.30pm		Practical		Batch B : Various culture media Batch C : Small group discussion Batch A : Preparation of autopsy report (certification)	Class divisible in three batches	Respective departments	
DAY 10 17-03-2025 (Monday)							
8.00-8.45 am	31.	Tetracyclins				Pharmacology	45 min
8.45-9.30 am	32.	Gardenella vaginalis, Hemophilus influenzae (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	33.	Tuberculosis				Medicine	45mins

Hospital work 10.30-12.00							
12.10-02.00 pm		Practical		Batch C : ZN staining Batch A: Small group discussion Batch B: Identification of volatile poisons by steam distillation	Class divisible in three batches	Respective departments	
Day 11 18-03-2025 (Tuesday)							
8.00-8.45am	34.	Surgery in tropics : tuberculosis				Surgery	45 mins
8.45-9.30 am	35.	Anti Tuberculous Drugs				Pharmacology	45 min
9.30-10.15 am	36.	Mycobacterium tuberculosis (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	
Hospital work 10.30-12.00							
12.10-02.00 pm		Practical		Batch A : ZN staining Batch B : Small group discussion Batch C : Identification of volatile poisons by steam distillation			
DAY 12 19-03-2025 (Wednesday)							
8.00-8.45 am	37.	Mycobacterium leprae and atypical mycobacterium (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	38.	Tuberculosis and Leprosy				Dermatology	45 mins
9.30-10.15 am	39.	Anti leprosy drugs				Pharmacology	45 mins

Hospital work 10.30-12.00							
12.10— 02.00 pm		Practical		Batch B : ZN staining Batch C : Small group discussion Batch A : Identification of volatile poisons by steam distillation	Class divisible in three batches	Respective departments	
DAY 13 20-03-2025 (Thursday)							
8.00-8.45 am	43.	Definition and diagnosis of death				Forensic medicine	45 mins
8.45-9.30 am	44.	E. Coli		students should be able to know the characteristics of the micro-organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15 am	45.	Urinary antiseptics				Pharmacology	45 min
Hospital work 10.30-12.00							
12.10-02.00 pm		Practical		Batch C: Urine examination Batch A: Small group Discussion Batch B: Collection , preservation and labeling of specimens for lab examination	Class divisible in three batches	Respective departments	
DAY 14 21-03-2025 (Friday)							
8.00-8.45 am	46.	Klebsiella, Proteus (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	47.	Urinary tract infections				Urology	45 min
9.30-10.15 am	48.	Corrosives (Mineral acids)				Forensic medicine	45 min
10.30-12.00 pm		Practical		Batch B: Urine examination Batch C: Small group Discussion Batch A: Collection , preservation and labeling of specimens for lab examination	Class divisible in three batches	Respective departments	

Day 15 22-03-2025 (Saturday)							
8.00-8.45 am	49.	Salmonella (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro-organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
8.45-9.30 am	50.	Enteric Fever				Medicine	45 mins
9.30-10.15 am	51.	Chloramphenicol				Pharmacology	45 min
10.15-11.00 am						Surgery	45 min
11.00-11.45 am						Medicine	45 min
11.45-12.30pm						EYE	45 min
12.45-02.30 pm		PRACTICAL		Batch B: Urine examination Batch C: Small group Discussion Batch A: Collection , preservation and labeling of specimens for lab examination	Class divisible in three batches	Respective departments	
Day 16 24-03-2025 (Monday)							
8.00-8.45 am	52.	Aminoglycosides				Pharmacology	45 min
8.45-9.30 am	53.	Collection, preservation , dispatch of viscera and other specimens to forensic science laboratory				Forensic medicine	45 mins
9.30-10.15 am	54.	Pyrexia of unknown origin				Medicine	45 mins
Hospital work 10:30-12:00							
12.10-02.00 pm		PRACTICAL		Batch C : Widal test Batch A: Small group Discussion Batch B: Identification of inorganic metallic poisons.	Class divisible in three batches	Respective departments	

Day 17				25-03-2025 (Tuesday)			
8.00-8.45 am	55.	Medicolegal aspects of sudden and unexplained death, suspended animation				Forensic Medicine	45 min
8.45-9.30 am	56.	Miscellaneous antibacterials (1)				Pharmacology	45 min
9.30-10.15 am	57.	Shigella and yersinia pestis (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
Hospital work				10:30-12:00			
12.10-02.00 pm		Practical		Batch A : Widal test Batch B: Small group Discussion Batch C: Identification of inorganic metallic poisons	Class divisible in three batches	Respective departments	
Day 18				26-03-2025 (Wednesday)			
8.00-8.45 am	58.					Pharmacology	45 min
8.45-9.30 am	59.	Miscellaneous antibacterials (2)				Pharmacology	45 min
9.30-10.15 am	60.					Orthopedics	45 min
Hospital work				10:30-12:00			
12.10-02.00 pm		Practical		Batch B : Widal test Batch C: Small group Discussion Batch A: Identification of inorganic metallic poisons	Class divisible in three batches	Respective departments	

Day 19 27-03-2025 (Thursday)							
8.00-8.45am	64.	Changes after death				Forensic medicine	45 mins
8.45-9.30 am	65.	Quinolones				Pharmacology	
9.30-10.15 am	66.	Vibrio cholera, Vibrio parahemolyticus(Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
Hospital work 10:30-12:00							
12.10-02.00pm		Practical		Batch C: Biochemical test (1) Batch A: group discussion Batch B: Storage of dead bodies, introduction to autopsy instruments.	Class divisible in three batches	Respective departments	
Day 20 28-03-2025 (Friday)							
8.00-8.45 am	67 .	Corrosives (organic acids, alkalis)				Forensic medicine	45 mins
8.45-9.30 am	68 .	Infective diarrhea				Medicine	45 min
9.30-10.15 am	69 .	Autopsy of fragmented remains, mutilated and decomposed bodies				Forensic Medicine	45 mins
10.30-12.00 pm		Practical		Batch A: Biochemical test (1) Batch B: group discussion Batch C: Storage of dead bodies, introduction to autopsy instruments.	Class divisible in three batches	Respective departments	
Day 21 29-03-2025 (Saturday)							
8.00-8.45 am	70 .	Prophylactic use of antimicrobial drugs				Pharmacology	45 mins
8.45-9.30 am	71 .	War gasess				Forensic Medicine	
9.30-10.15 am	72 .					Forensic Medicine	45 min

10.15-11.00 am		Campylobacter jejuni, Helicobacter pylori (Pathogenesis, Epidemiology, Prevention and Control)		Students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
11.00-11.45 am						Pharmacology	45 min
11.45-12:30 pm						ENT	45 min
12.45—02.30 pm		Practical		Batch B : Biochemical test (1) Batch C: group discussion Batch A: Storage of dead bodies, introduction to autopsy instruments.	Class divisible in three batches	Respective departments	
Day 22 31-03-2025(Monday)							
8.00-8.45 am		Chest Infection				Surgery	45 min
8.45-9.30 am		Cystic Fibrosis /Pneumonia				Medicine	45 min
9.30-10.15 am						Pathology	45 min
Hospital work 10:30-12:00							
12:10-02:00		PRACTICAL		Batch C: Pathology Batch A : Pharmacology Batch B : Forensic Medicine	Class divisible in three batches	Respective departments	
Day 23 09-04-2025 (Wednesday)							
8.00-8.45 am	73	Legionella, Mycoplasma pneumonia. (Pathogenesis, Epidemiology, Prevention and Control)		Students should be able to know the characteristics of the microorganisms, disease caused by them their investigations and treatment		Pathology	45 Mins
08:45 – 09:30am	74	Abscesses (Acute and chronic) and their management				Medicine	45 Mins
09:30 – 10:15am	75	Chlamydia (Pathogenesis, Epidemiology, Prevention and Control, Treatment)		Students should be able to know the characteristics of the microorganisms, disease caused by them their investigations and treatment		Pathology	45 Mins

Hospital work 10:30-12:00							
12:10-02:00p.m		RESPECTIVE PRACTICAL		Batch B: Biochemical tests (2) Batch C: Group discussion Batch A: Stas OHO,s process (Extraction technique)	Class divisible in three batches	Respective Departments	
Day 24				10-04-2025 (Thursday)			
8.00-8.45 am	76.	Artifacts, autopsy lab essentials, embalming				Forensic Medicine	45 Mins
08:45 – 09:30am	77.	Treponema pallidum (Pathogenesis, Epidemiology, Preventions and Control, Treatment)				Pathology	45 Mins
09:30 – 10:15am	78.	Syphillus and Candidiasis				Surgery	45 Mins
Hospital Work 10:30 – 12:00noon							
12:10-02:00p.m.		PRACTICAL		Batch C: Biochemical tests (2) Batch A: Group Discussion Batch B: Stas OHO, s process (Extraction technique)	Class divisible in three batches	Respective Departments	
Day 25				11-04-2025 (Friday)			
8.00-8.45 am	79.	Physiology of cough reflex				Physiology	45 Mins
08:45 – 09:30am	80.	Anti tussives, mucolytics and expectorants				Pharmacology	45 Mins
09:30 – 10:15am	81.	Leptospira Rickettsia sp. (Pathogenesis, Epidemiology, Prevention and Control, Treatment)				Pathology	45 Mins
10:30-12:00p.m.		PRACTICAL		Batch A: Biochemical tests (2) Batch B: Group Discussion Batch C: Stas OHO, s process (Extraction technique)	Class divisible in three batches	Respective Departments	
Day 26				12-04-2025 (Saturday)			
8.00-8.45 am	82.					Orthopaedics	45 min

8.45 am-9.30 am	83.	Measles and Mumps virus (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30 am-10.15 am	84.	Anti viral drugs (1)				Pharmacology	45 min
10.15 am-11.00 am						Pharmacology	45 min
11.00 am-11.45 am						Forensic Medicine	45 min
11.45 am-12.30pm						Orthopedics	45 min
12.45—2.30 pm		Practical		Batch B: Collection and dispatch of samples Batch C : group discussion Batch A : Thin layer chromatography	Class divisible in three batches	Respective departments	
Day 27 14-04-2025 (Monday)							
8.00-8.45 am	85.	Hepatitis A,B,C D E (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	86.	Exhumation procedure, law relating to autopsy and exhumation				Forensic medicine	45 mins
9.30-10.15 am	87.	Acute Hepatitis : A and E infection				Medicine	45 min
Hospital Work 10:30 – 12:00							
12.10—02.00 pm		Practical		Batch C: Tutorial Batch A : group discussion Batch B : Plant poisons	Class divisible in three batches	Respective departments	

Day 28		15-04-2025 (Tuesday)					
8.00-8.45 am	88.	Rubella Virus (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	89.	Death certification according to WHO				Forensic medicine	45 mins
9.30-10.15 am	90.	Herpes virus (Simplex and Zoster) (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
Hospital Work 10:30 – 12:00							
12:10-02:00p.m.		PRACTICAL		Batch A: Biochemical tests (2) Batch B: Group Discusion Batch C: Stas OHO,s process (Extraction technique)	Class divisible in three batches	Respective Departments	
DAY 29 16-04-2025 (Wednesday)							
8.00-8.45 am	94.	Influenza, Para influenza (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	95.	Hepatitis A,B and C				Surgery	45 min
9.30-10.15 am	96.	Organ transplantation and molecular death				Forensic Medicine	45 mins
Hospital work 10.30-12.00							
12.10—02.00 pm		PRACTICAL		Batch B: tutorial Batch C : group discussion Batch A : Plant poisons	Class divisible in three batches	Respective departments	

DAY 30				17-04-2025 (Thursday)			
8.00-8.45 am	97.	Irritants (Metallic Poisons)				Forensic Medicine	45 mins
8.45-9.30 am	98.	Chronic hepatitis : Hepatitis B and C infection				Medicine	45 min
9.30-10.15 am	99.	CMV and EBV (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
Hospital work				10.30-12.00			
12.00-02:00		PRACTICAL		Batch C: tutorial Batch A: group discussion Batch B: Plant poisons	Class divisible in three batches	Respective departments	
DAY 31				18-04-2025 (Friday)			
8.00-8.45 am	100.	AIDS				Surgery	45 min
8.45-9.30 am	101.	HIV (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15 am	102.	HIV				Medicine	45 mins
10.30—12.00 pm		PRACTICAL		Batch A: tutorial Batch B: group discussion Batch C: Plant poisons	Class divisible in three batches	Respective departments	
DAY 32				19-04-2025 (Saturday)			
8.00-8.45 am	103.	Viral Conjunctivitis : Adenoviral, Molluscum contagiosum conjunctivitis.				Eye	45 min
8.45-9.30 am	104.					Orthopedic	45 mins

9.30-10.15 am	105.	Rabies Virus (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
10.15-11.00 am						Forensic Medicine	45 mins
11.00-11.45 am						ENT	45 mins
11.45-12.30pm						Pathology	45 mins
12.45-2.30pm		Practical		Batch B : Antibigram Batch C : group discussion Batch A :Examination of blood i) Physical examination ii) spectroscopic examination iii) examination under U/v lamp	Class divisible in three batches	Respective departments	
DAY 33 21-04-2025 (Monday)							
8.00-8.45 am	106.	Cryptococcus neoformans, Histoplasma sp (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	107.	Definition, types, medicolegal significance of personal identity				Forensic Medicine	45 mins
9.30-10.15 am	108.	Antifugal drugs (1)				Medicine	45 Mins
Hospital work 10.30-12.00							
12.10—02.00 pm		Practical		Batch C: Tutorial Batch A : group discussion Batch B : Plant poisons	Class divisible in three batches	Respective departments	
DAY 34 22-04-2025 (Tuesday)							
8.00-8.45 am	109.	Candida albicans and Aspergillus sp (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min

8.45-9.30 am	110.	Anti-fungal drugs (2)				Surgery	45 mins
9.30-10.15 am	111.	Parameters/ methods of establishing identity				Forensic medicine	45 mins
Hospital work 10.30-12.00							
12:10-02:00p.m.		Practical		Batch A: Tutorial Batch B: Group discussion Batch C: Plant poisons	Class divisible In three batches	Respective department	
DAY 35 23-04-2025 (Wednesday)							
8.00-8.45 am	115.	Tinea species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	116.	Nosocomial infection				Medicine	45 mins
9.30-10.15 am	117.	Anti malarial drugs (1)				Pharmacology	45 mins
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch B : Demonstration of malarial parasite Batch C : group discussion Batch A : Preliminary chemical examination of Blood	Class divisible in three batches	Respective departments	12.00—2.30
Day 36 24-04-2025 (Thursday)							
8.00-8.45 am	118.	Plasmodium sp (Pathogenesis, Epidemiology , prevention and control)				Pathology	
8.45-9.30 am	119.	Malaria				Medicine	45 Mins
9.30-10.15 am	120.	Anti malarials (2)				Pharmacology	

Hospital work 10.30-12.00							
12.10 - 02.00		Practical		Batch C : Demonstration of malarial parasite Batch A : group discussion Batch B : Preliminary chemical examination of Blood	Class divisible in three batches	Respective departments	10.15 - 12.00
DAY 37 25-04-2025 (Friday)							
8.00-8.45 am	121.	Prophylaxis of surgical infections: Use of antibiotics (according to type of surgery)				Surgery	45 mins
8.45-9.30 am	122.	Giardia lamblia, Entamoeba histolytica (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	123.	Anti amboeic drugs (1)				Pharmacology	45 min
10.30— 12.00pm		Practical		Batch A : Worm specimens Ascaris, Tenia, Hydatid cyst Batch B : group discussion Batch C : Confirmatory chemical examination of Blood	Class divisible in three batches	Respective departments	
DAY 38 26-04-2025 (Saturday)							
8.00-8.45 am	124.	Jdentification of living/ dead (Race and age determination)				Forensic Medicine	45min
8.45-9.30 am	125.	Acute Laryngitis				ENT	45 mins
9.30-10.15 am	126.	Post operative infections : Enophthalmitis, Panophthalmitis				Eye	45 mins
10.15- 11.00 am						ENT	45 mins
11.00- 11.45am						Pharmacology	45 mins

11.45-12.30pm						Pharmacology	45 mins
12.45—02.30		Practical		Batch B : Demonstration of malarial parasite Batch C : group discussion Batch A: Preliminary chemical examination of Blood	Class divisible in three batches	Respective departments	
DAY 39 28-04-2025 (Monday)							
8.00-8.45 am	127.	Anti Amoebics (2)				Pharmacology	45 mins
8.45-9.30 am	128.	Leishmania sp (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	129.	Metallic poisons (Mercury, copper, Thallium)				Forensic medicine	45 min
Hospital work 10.30-12.00							
12.10—02.00 pm		Practical		Batch C: Tutorial Batch A: group discussion Batch B: Plant poisons	Class divisible in three batches	Respective departments	
DAY 40 29-04-2025 (Tuesday)							
8.00-8.45 am	130.	Toxoplasmosis gonadi and pneumocystis Carinii (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	131.	Toxoplasmosis				Medicine	45 min
9.30-10.15 am	132.	Gender determination of living/ dead				Forensic medicine	45 mins

Hospital work 10.30-12.00							
12:10-02:00		Practical		Batch A : Worm specimens Ascaris, Tenia, Hydatid cyst Batch B : group discussion Batch C : Confirmatory chemical examination of Blood	Class divisible in three batches	Respective departments	
Day 41 30-04-2025 (Wednesday)							
8.00-8.45 am	136.	Prophylaxis of surgical infection : pre operative preperation				Surgery	45 mins
8.45-9.30 am	137.	Forensic Odontology				Forensic Medicine	45 mins
9.30-10.15 am	138.	Cryptosporidium and trichomonas vaginalis (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
Hospital work 10.30-12.00							
12.10— 02.30		PRACTICAL		Batch B : Worm specimens Ascaris, Tenia, Hydatid cyst Batch C : group discussion Batch A : Confirmatory chemical examination of Blood	Class divisible in three batches	Respective departments	
DAY 42 02-05-2025 (Friday)							
8.00-8.45 am	139.	Anti Helmintics (2)				Pharmacology	45 min
8.45-9.30 am	140.	Prophylaxis of surgical infection : Scrubbing techniques				Surgery	45 min
9.30-10.15 am	141.	Ascaris Lumbricoides (Pathogenesis, Epidemiology, prevention and control)				Pathology	45 min

10.30— 12.00		PRACTICAL		Batch A: tutorial Batch B: group discussion Batch C: Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	
DAY 43 03-05-2025 (Saturday)							
8.00-8.45 am	142.	Non metallic poisonous irritants (Phosphorus) Mechanical irritants				Forensic Medicine	45 min
8.45-9.30 am	143.	Acchylostoma duodenale (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	144					Orthopedics	45 mins
10.15- 11:00 am						Pathology	45 mins
11.00- 11.45 am						Surgery	45 mins
11.45- 12.30 Pm						Pharmacology	45 mins
12.45- 02.30pm		PRACTICAL		Batch B : Tutorial Batch C: group discussion Batch A: Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	
DAY 44 05-05-2025 (Monday)							
8.00-8.45 am	145.					Forensic Medicine	45 mins
8.45-9.30 am	146.					Forensic Medicine	45 min
9.30-10.15 am	147.	Entrobis Vermicularis and Trichris Trichuria (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins

Hospital work 10.30-12.00							
12.10-02.00Noon		PRACTICAL		Batch C : tutorial Batch A : group discussion Batch B : Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	
DAY 45 06-05-2025 (Tuesday)							
8.00-8.45 am	148	Strongyloides Stercoralis and Hymenolepis Nana (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	149.	Chronic Laryngitis				ENT	
9.30-10.15 am	150.	Infections of cornea : Bacterial keratitis, fungal keratitis, Herpes simplex keratitis, herpes Zoster, interstitial keratits, Protozoan keratitis				Eye	45 mins
Hospital work 10.30-12.00							
12:10-02:00Noon		PRACTICAL		Batch A : stool examination Batch B : group discussion Batch C : Examination of hair/Fibre	Class divisible in three batches	Respective departments	
DAY 46 07-05-2025 (Wednesday)							
8.00-8.45 am	151.	Finger prints and other congenital and acquired marks of identification				Forensic medicine	45 mins
8.45-9.30 am	152.	Filarial species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	153.					Orthopaedic surgery	45 mins

Hospital work				10.30-12.00			
12.10— 02.00pm		Practical		Batch B : stool examination Batch C: group discussion Batch A: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 47				08-05-2025 (Thursday)			
8.00-8.45 am	157.	Echinococcus Species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	158.	Establishment of identity from skeleton and skeletal remains				Forensic medicine	45 min
9.30-10.15 am	159.	Pharmacological agents used for Treatment of bronchial asthma				Pharmacology	45 mins
Hospital work				10.30-12.00			
12.10— 02.00		Practical		Batch C : stool examination Batch A: group discussion Batch B: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 48				09-05-2025 (Friday)			
8.00-8.45 am	160.	Taenia solium and Taenia saginata (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	161.	Career counseling				DME	45 mins
9.30-10.15 am	162.	Bronchdilators				Pharmacology	45 mins
10.30— 12.00		Practical		Batch A : stool examination Batch B : group discussion Batch C: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	

DAY 49							
10-05-2025 (Saturday)							
8.00-8.45 am	157.	Uveitis : Toxoplasmosis, Toxocariasis, Uveitis in HIV, Fungal uveitis, Bacterial uveitis				Eye	45 mins
8.45-9.30 am	158.	Schistosoma Species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	159.					Orthopedics	45 min
10:15-11:00am						Pharmacology	45 min
11:00-11:45am						Forensic Medicine	45 min
11:45-12:30pm						Orthopedics	45 min
12.45—02.30		Practical		Batch B : Tutorial Batch C: group discussion Batch A : Semen/ Seminal stain analysis	Class divisible in three batches	Respective departments	

DAY 50 12-05-2025 (Monday)							
8.00-8.45 am		Acute Sinusitis				ENT	45 min
8.45-9.30 am						Forensic Medicine	45 min
9.30-10.15 am		Clinical Aspects Of Ebola And Dengue Virus				Medicine	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch C : stool examination Batch A: group discussion Batch B: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 51 13-05-2025 (Tuesday)							
8.00-8.45 am						Forensic Medicine	45 min
8.45-9.30 am						Pharmacology	45 min
9.30-10.15 am						Orthopedics	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch A : stool examination Batch B: group discussion Batch C: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 52 14-05-2025 (Wednesday)							
8.00-8.45 am						Forensic Medicine	45 min
8.45-9.30 am						Pathology	45 min
9.30-10.15 am						EYE	45 min
Hospital work 10.30-12.00							
12.10-02.00pm		PRACTICAL		Batch B : Tutorial Batch C: group discussion Batch A: Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	

DAY 53 15-05-2025 (Thursday)							
8.00-8.45 am						Surgery	
8.45-9.30 am						Forensic Medicine	
9.30-10.15 am						Pharmacology	
Hospital work				10.30-12.00			
12.45—02.30		Practical		Batch C : Tutorial Batch A: group discussion Batch B : Semen/ Seminal stain analysis	Class divisible in three batches	Respective departments	
DAY 54 16-05-2025 (Friday)							
SELF-STUDY							
DAY 55 17-05-2025 (Saturday)							
		Pathology Assessment (Special Bacteriology) (09:00 to 10:00am)					
Hospital work				10.30-12.00			
DAY 56 19-05-2025 (Monday)							
24-07-2024		Forensic Assessment (09:00 to 10:00am)					
Hospital work				10.30-12.00			
DAY 57 20-05-2025 (Tuesday)							
SELF-STUDY							
Hospital work				10.30-12.00			
DAY 58 21-05-2025 (Wednesday)							
		Pharmacology Assessment (09:00 to 10:00am)					
Hospital work				10.30-12.00			

All lectures and assessment will be conducted in Forensic Lecture Theatre.

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APWMO,
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PROF. DR. FAIZA BASHIR,
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MODULE

SPECIAL MICROBIOLOGY

DURATION **58 DAYS (06th March, 2025 to 21st May, 2025)**

CONTACT HOURS Lectures 168 = 126 hours + Practicals = 48 Hours + Hospital stay = 120 Hours

CREDIT HOURS 11.9

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES:

This integrated module of special microbiology is proposed for 3rd year M.B;B.S. It will introduce the class with microorganisms, the various diseases produced by them and their clinical presentations. It is intended to extend knowledge, understanding and practical skills in the field of microbiology.

By the end of the module the students should have acquired a basic theoretical and practical knowledge of:

Antimicrobial agents and their use,

Clinical microbiology

Parasitology and mycology

Medical, surgical and allied (Eye, ENT, Orthopaedic surgery) related infections and their clinical presentation

A core knowledge of forensic medicine and toxicology will also be included in this module.

The course is intended to cover the capabilities of:

Knowledge (Of microbes and antimicrobial agents)

Technical expertise (Handling of samples, examination of urine and stool specimens, interpretation of antibiogram and various biochemical tests, performing autopsies etc)

Critical analysis and problem solving) (small group discussions, tutorials)

Communication (working in clinics, studying clinical cases)

TIME			PLAC E	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURAT ION
DAY 1 06-03-2025 (Thursday)							
8.00-8.45am	1.	Overview of Bacteraemia and Septicaemia				Surgery	
8.45-9.30am	2.	Staphylococcus aureus (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15am	3.	Principles of antimicrobial drug action				Pharmacology	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch C: Gram staining Batch A : Small group discussion Batch B: Medico legal autopsies	Class divisible in three batches	Respective departments	
DAY 2 07-03-2025 (Friday)							
8.00-8.45am	4.	Streptococcus pneumonia, Beta hemolytic Streptococcus type a and b (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30am	5.	Pneumonia				Medicine	45 mins
9.30-10.15am	6.	Objectives, rules and techniques of autopsy				Forensic Medicine	45 mins
10.30—12.00pm		Practical		Batch A: Gram staining Batch B : Small group discussion Batch C : Medico legal autopsies	Class divisible in three batches	Respective departments	
DAY 3 08-03-2025 (Saturday)							
8.00-8.45am	7.	Penicillines and cephalosporins (1)				Pharmacology	45 mins

8.45-9.30am	8.	Beta Haemolytic streptococci (Cont) ,Diphtheria Sp. (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15am	9.	Infective endocarditis				Medicine	45 mins
10.15-11.00am						Orthopedics	
11.00-11.45am						ENT	
11.45-12.30am						EYE	
12.45—2.30pm		PRACTICAL		Batch B: Gram staining Batch C: Small group discussion Batch A: Medico legal autopsies	Class divisible in three batches	Respective departments	
DAY 4 10-03-2025 (Monday)							
8.00-8.45am	10.	Penicillines and cephalosporins (2)				Pharmacology	45 min
8.45-9.30am	11.	Bacillus anthracis, Bordetella sp. (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15am	12.	Biological weapons (Anthrax, tetanus etc)				Forensic Medicine	45 mins
Hospital work 10.30-12.00							
12.10—2.00 pm		PRACTICAL		Batch C : Oxidase and catalase test Batch A : Small group discussion Batch B : Examination of stomach contents	Class divisible in three batches	Respective departments	

DAY 5 11-03-2025 (Tuesday)							
8.00-8.45am	13.	Preperation of autopsy protocol, types of autopsy				Forensic Medicine	45 min
8.45-9.30am	14.	Actinomyces israeli, Nocardia asteroides (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15am	15	Actinomycosis ,Anthrax and Gonorrhea				surgery	45 mins
Hospital work 10.30-12.00							
12.10-02:00 pm		PRACTICAL		Batch A: Oxidase and catalase test. Batch B: Small group discussion Batch C : Examination of stomach contents	Class divisible in three batches	Respective departments	
DAY 6 12-03-2025 (Wednesday)							
8.00-8.45am	16.	Penicillines and cephalosporins (3)				Pharmacology	45 min
8.45-9.30 am	17.	Clostridium difficile, Clostridium botulinum (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15am	18.	Food poisoning including botulism				Forensic Medicine	45 mins
Hospital work 10.30-12.00							
12.10—2.00 pm		PRACTICAL		Batch B: Oxidase and catalase test. Batch C: Small group discussion Batch A : Examination of stomach contents	Class divisible in three batches	Respective departments	

Day 7 13-03-2025 (Thursday)							
8.00-8.45am	22.	Clostridium perfringens (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
8.45-9.30am	23.	Gas gangrene and synergistic gangrene				Surgery	45 mins
9.30-10.15am	24.	Sulphonamides and trimethoprim				Pharmacology	45 mins
Hospital work 10.30-12.00							
12.10 — 02.00pm		PRACTICAL		Batch C : Various culture media Batch A : Small group discussion Batch B: Preparation of autopsy report (certification)	Class divisible in three batches	Respective departments	
DAY 8 14-03-2025 (Friday)							
8.00-8.45 am	25.	Clostridium tetani (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45mins
8.45-9.30 am	26.	Tetanus				Medicine	45 mins
9.30-10.15 am	27.	Surgical aspects of tetanus				Surgery	45 Mins
10.30-12.00pm		Practical		Batch A : Various culture media Batch B: Small group discussion Batch C : Preparation of autopsy report (certification)	Class divisible in three batches	Respective departments	
DAY 9 15-03-2025 (Saturday)							
8.00-8.45 am	28.	Neisseria meningitidis, Neisseria gonorrhoeae (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins

8.45-9.30 am	29.	Meningitis				Medicine	45 mins
9.30-10.15 am	30.	Macrolides				Pharmacology	45 mins
10.15-11.00 am						Forensic Medicine	45 mins
11.00-11.45 am						ENT	45 mins
11.45-12.30pm						EYE	45 mins
12.45—2.30pm		Practical		Batch B : Various culture media Batch C : Small group discussion Batch A : Preparation of autopsy report (certification)	Class divisible in three batches	Respective departments	
DAY 10 17-03-2025 (Monday)							
8.00-8.45 am	31.	Tetracyclins				Pharmacology	45 min
8.45-9.30 am	32.	Gardenella vaginalis, Hemophilus influenzae (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	33.	Tuberculosis				Medicine	45mins

Hospital work 10.30-12.00							
12.10-02.00 pm		Practical		Batch C : ZN staining Batch A: Small group discussion Batch B: Identification of volatile poisons by steam distillation	Class divisible in three batches	Respective departments	
Day 11 18-03-2025 (Tuesday)							
8.00-8.45am	34.	Surgery in tropics : tuberculosis				Surgery	45 mins
8.45-9.30 am	35.	Anti Tuberculous Drugs				Pharmacology	45 min
9.30-10.15 am	36.	Mycobacterium tuberculosis (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	
Hospital work 10.30-12.00							
12.10-02.00 pm		Practical		Batch A : ZN staining Batch B : Small group discussion Batch C : Identification of volatile poisons by steam distillation			
DAY 12 19-03-2025 (Wednesday)							
8.00-8.45 am	37.	Mycobacterium leprae and atypical mycobacterium (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	38.	Tuberculosis and Leprosy				Dermatology	45 mins
9.30-10.15 am	39.	Anti leprosy drugs				Pharmacology	45 mins

Hospital work 10.30-12.00							
12.10— 02.00 pm		Practical		Batch B : ZN staining Batch C : Small group discussion Batch A : Identification of volatile poisons by steam distillation	Class divisible in three batches	Respective departments	
DAY 13 20-03-2025 (Thursday)							
8.00-8.45 am	43.	Definition and diagnosis of death				Forensic medicine	45 mins
8.45-9.30 am	44.	E. Coli		students should be able to know the characteristics of the micro-organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15 am	45.	Urinary antiseptics				Pharmacology	45 min
Hospital work 10.30-12.00							
12.10-02.00 pm		Practical		Batch C: Urine examination Batch A: Small group Discussion Batch B: Collection , preservation and labeling of specimens for lab examination	Class divisible in three batches	Respective departments	
DAY 14 21-03-2025 (Friday)							
8.00-8.45 am	46.	Klebsiella, Proteus (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	47.	Urinary tract infections				Urology	45 min
9.30-10.15 am	48.	Corrosives (Mineral acids)				Forensic medicine	45 min
10.30-12.00 pm		Practical		Batch B: Urine examination Batch C: Small group Discussion Batch A: Collection , preservation and labeling of specimens for lab examination	Class divisible in three batches	Respective departments	

Day 15 22-03-2025 (Saturday)							
8.00-8.45 am	49.	Salmonella (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro-organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
8.45-9.30 am	50.	Enteric Fever				Medicine	45 mins
9.30-10.15 am	51.	Chloramphenicol				Pharmacology	45 min
10.15-11.00 am						Surgery	45 min
11.00-11.45 am						Medicine	45 min
11.45-12.30pm						EYE	45 min
12.45-02.30 pm		PRACTICAL		Batch B: Urine examination Batch C: Small group Discussion Batch A: Collection , preservation and labeling of specimens for lab examination	Class divisible in three batches	Respective departments	
Day 16 24-03-2025 (Monday)							
8.00-8.45 am	52.	Aminoglycosides				Pharmacology	45 min
8.45-9.30 am	53.	Collection, preservation , dispatch of viscera and other specimens to forensic science laboratory				Forensic medicine	45 mins
9.30-10.15 am	54.	Pyrexia of unknown origin				Medicine	45 mins
Hospital work 10:30-12:00							
12.10-02.00 pm		PRACTICAL		Batch C : Widal test Batch A: Small group Discussion Batch B: Identification of inorganic metallic poisons.	Class divisible in three batches	Respective departments	

Day 17				25-03-2025 (Tuesday)			
8.00-8.45 am	55.	Medicolegal aspects of sudden and unexplained death, suspended animation				Forensic Medicine	45 min
8.45-9.30 am	56.	Miscellaneous antibacterials (1)				Pharmacology	45 min
9.30-10.15 am	57.	Shigella and yersinia pestis (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
Hospital work				10:30-12:00			
12.10-02.00 pm		Practical		Batch A : Widal test Batch B: Small group Discussion Batch C: Identification of inorganic metallic poisons	Class divisible in three batches	Respective departments	
Day 18				26-03-2025 (Wednesday)			
8.00-8.45 am	58.					Pharmacology	45 min
8.45-9.30 am	59.	Miscellaneous antibacterials (2)				Pharmacology	45 min
9.30-10.15 am	60.					Orthopedics	45 min
Hospital work				10:30-12:00			
12.10-02.00 pm		Practical		Batch B : Widal test Batch C: Small group Discussion Batch A: Identification of inorganic metallic poisons	Class divisible in three batches	Respective departments	

Day 19 27-03-2025 (Thursday)							
8.00-8.45am	64.	Changes after death				Forensic medicine	45 mins
8.45-9.30 am	65.	Quinolones				Pharmacology	
9.30-10.15 am	66.	Vibrio cholera, Vibrio parahemolyticus(Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
Hospital work 10:30-12:00							
12.10-02.00pm		Practical		Batch C: Biochemical test (1) Batch A: group discussion Batch B: Storage of dead bodies, introduction to autopsy instruments.	Class divisible in three batches	Respective departments	
Day 20 28-03-2025 (Friday)							
8.00-8.45 am	67 .	Corrosives (organic acids, alkalis)				Forensic medicine	45 mins
8.45-9.30 am	68 .	Infective diarrhea				Medicine	45 min
9.30-10.15 am	69 .	Autopsy of fragmented remains, mutilated and decomposed bodies				Forensic Medicine	45 mins
10.30-12.00 pm		Practical		Batch A: Biochemical test (1) Batch B: group discussion Batch C: Storage of dead bodies, introduction to autopsy instruments.	Class divisible in three batches	Respective departments	
Day 21 29-03-2025 (Saturday)							
8.00-8.45 am	70 .	Prophylactic use of antimicrobial drugs				Pharmacology	45 mins
8.45-9.30 am	71 .	War gasess				Forensic Medicine	
9.30-10.15 am	72 .					Forensic Medicine	45 min

10.15-11.00 am		Campylobacter jejuni, Helicobacter pylori (Pathogenesis, Epidemiology, Prevention and Control)		Students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
11.00-11.45 am						Pharmacology	45 min
11.45-12:30 pm						ENT	45 min
12.45—02.30 pm		Practical		Batch B : Biochemical test (1) Batch C: group discussion Batch A: Storage of dead bodies, introduction to autopsy instruments.	Class divisible in three batches	Respective departments	
Day 22 31-03-2025(Monday)							
8.00-8.45 am		Chest Infection				Surgery	45 min
8.45-9.30 am		Cystic Fibrosis /Pneumonia				Medicine	45 min
9.30-10.15 am						Pathology	45 min
Hospital work 10:30-12:00							
12:10-02:00		PRACTICAL		Batch C: Pathology Batch A : Pharmacology Batch B : Forensic Medicine	Class divisible in three batches	Respective departments	
Day 23 09-04-2025 (Wednesday)							
8.00-8.45 am	73	Legionella, Mycoplasma pneumonia. (Pathogenesis, Epidemiology, Prevention and Control)		Students should be able to know the characteristics of the microorganisms, disease caused by them their investigations and treatment		Pathology	45 Mins
08:45 – 09:30am	74	Abscesses (Acute and chronic) and their management				Medicine	45 Mins
09:30 – 10:15am	75	Chlamydia (Pathogenesis, Epidemiology, Prevention and Control, Treatment)		Students should be able to know the characteristics of the microorganisms, disease caused by them their investigations and treatment		Pathology	45 Mins

Hospital work 10:30-12:00							
12:10-02:00p.m.		RESPECTIVE PRACTICAL		Batch B: Biochemical tests (2) Batch C: Group discussion Batch A: Stas OHO,s process (Extraction technique)	Class divisible in three batches	Respective Departments	
Day 24 10-04-2025 (Thursday)							
8.00-8.45 am	76.	Artifacts, autopsy lab essentials, embalming				Forensic Medicine	45 Mins
08:45 – 09:30am	77.	Treponema pallidum (Pathogenesis, Epidemiology, Preventions and Control, Treatment)				Pathology	45 Mins
09:30 – 10:15am	78.	Syphillus and Candidiasis				Surgery	45 Mins
Hospital Work 10:30 – 12:00noon							
12:10-02:00p.m.		PRACTICAL		Batch C: Biochemical tests (2) Batch A: Group Discussion Batch B: Stas OHO, s process (Extraction technique)	Class divisible in three batches	Respective Departments	
Day 25 11-04-2025 (Friday)							
8.00-8.45 am	79.	Physiology of cough reflex				Physiology	45 Mins
08:45 – 09:30am	80.	Anti tussives, mucolytics and expectorants				Pharmacology	45 Mins
09:30 – 10:15am	81.	Leptospira Rickettsia sp. (Pathogenesis, Epidemiology, Prevention and Control, Treatment)				Pathology	45 Mins
10:30-12:00p.m.		PRACTICAL		Batch A: Biochemical tests (2) Batch B: Group Discussion Batch C: Stas OHO, s process (Extraction technique)	Class divisible in three batches	Respective Departments	
Day 26 12-04-2025 (Saturday)							
8.00-8.45 am	82.					Orthopaedics	45 min

8.45 am-9.30 am	83.	Measles and Mumps virus (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30 am-10.15 am	84.	Anti viral drugs (1)				Pharmacology	45 min
10.15 am-11.00 am						Pharmacology	45 min
11.00 am-11.45 am						Forensic Medicine	45 min
11.45 am-12.30pm						Orthopedics	45 min
12.45—2.30 pm		Practical		Batch B: Collection and dispatch of samples Batch C : group discussion Batch A : Thin layer chromatography	Class divisible in three batches	Respective departments	
Day 27 14-04-2025 (Monday)							
8.00-8.45 am	85.	Hepatitis A,B,C D E (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	86.	Exhumation procedure, law relating to autopsy and exhumation				Forensic medicine	45 mins
9.30-10.15 am	87.	Acute Hepatitis : A and E infection				Medicine	45 min
Hospital Work 10:30 – 12:00							
12.10—02.00 pm		Practical		Batch C: Tutorial Batch A : group discussion Batch B : Plant poisons	Class divisible in three batches	Respective departments	

Day 28				15-04-2025 (Tuesday)			
8.00-8.45 am	88.	Rubella Virus (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	89.	Death certification according to WHO				Forensic medicine	45 mins
9.30-10.15 am	90.	Herpes virus (Simplex and Zoster) (Pathogenesis, Epidemiology, Prevention and Control)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
Hospital Work 10:30 – 12:00							
12:10-02:00p.m.		PRACTICAL		Batch A: Biochemical tests (2) Batch B: Group Discusion Batch C: Stas OHO,s process (Extraction technique)	Class divisible in three batches	Respective Departments	
DAY 29 16-04-2025 (Wednesday)							
8.00-8.45 am	94.	Influenza, Para influenza (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	95.	Hepatitis A,B and C				Surgery	45 min
9.30-10.15 am	96.	Organ transplantation and molecular death				Forensic Medicine	45 mins
Hospital work 10.30-12.00							
12.10—02.00 pm		PRACTICAL		Batch B: tutorial Batch C : group discussion Batch A : Plant poisons	Class divisible in three batches	Respective departments	

DAY 30				17-04-2025 (Thursday)			
8.00-8.45 am	97.	Irritants (Metallic Poisons)				Forensic Medicine	45 mins
8.45-9.30 am	98.	Chronic hepatitis : Hepatitis B and C infection				Medicine	45 min
9.30-10.15 am	99.	CMV and EBV (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
Hospital work				10.30-12.00			
12.00-02:00		PRACTICAL		Batch C: tutorial Batch A: group discussion Batch B: Plant poisons	Class divisible in three batches	Respective departments	
DAY 31				18-04-2025 (Friday)			
8.00-8.45 am	100.	AIDS				Surgery	45 min
8.45-9.30 am	101.	HIV (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
9.30-10.15 am	102.	HIV				Medicine	45 mins
10.30—12.00 pm		PRACTICAL		Batch A: tutorial Batch B: group discussion Batch C: Plant poisons	Class divisible in three batches	Respective departments	
DAY 32				19-04-2025 (Saturday)			
8.00-8.45 am	103.	Viral Conjunctivitis : Adenoviral, Molluscum contagiosum conjunctivitis.				Eye	45 min
8.45-9.30 am	104.					Orthopedic	45 mins

9.30-10.15 am	105.	Rabies Virus (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins
10.15-11.00 am						Forensic Medicine	45 mins
11.00-11.45 am						ENT	45 mins
11.45-12.30pm						Pathology	45 mins
12.45-2.30pm		Practical		Batch B : Antibigram Batch C : group discussion Batch A :Examination of blood i) Physical examination ii) spectroscopic examination iii) examination under U/v lamp	Class divisible in three batches	Respective departments	
DAY 33 21-04-2025 (Monday)							
8.00-8.45 am	106.	Cryptococcus neoformans, Histoplasma sp (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	107.	Definition, types, medicolegal significance of personal identity				Forensic Medicine	45 mins
9.30-10.15 am	108.	Antifugal drugs (1)				Medicine	45 Mins
Hospital work 10.30-12.00							
12.10—02.00 pm		Practical		Batch C: Tutorial Batch A : group discussion Batch B : Plant poisons	Class divisible in three batches	Respective departments	
DAY 34 22-04-2025 (Tuesday)							
8.00-8.45 am	109.	Candida albicans and Aspergillus sp (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min

8.45-9.30 am	110.	Anti-fungal drugs (2)				Surgery	45 mins
9.30-10.15 am	111.	Parameters/ methods of establishing identity				Forensic medicine	45 mins
Hospital work 10.30-12.00							
12:10-02:00p.m.		Practical		Batch A: Tutorial Batch B: Group discussion Batch C: Plant poisons	Class divisible In three batches	Respective department	
DAY 35 23-04-2025 (Wednesday)							
8.00-8.45 am	115.	Tinea species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	116.	Nosocomial infection				Medicine	45 mins
9.30-10.15 am	117.	Anti malarial drugs (1)				Pharmacology	45 mins
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch B : Demonstration of malarial parasite Batch C : group discussion Batch A : Preliminary chemical examination of Blood	Class divisible in three batches	Respective departments	12.00—2.30
Day 36 24-04-2025 (Thursday)							
8.00-8.45 am	118.	Plasmodium sp (Pathogenesis, Epidemiology , prevention and control)				Pathology	
8.45-9.30 am	119.	Malaria				Medicine	45 Mins
9.30-10.15 am	120.	Anti malarials (2)				Pharmacology	

Hospital work 10.30-12.00							
12.10 - 02.00		Practical		Batch C : Demonstration of malarial parasite Batch A : group discussion Batch B : Preliminary chemical examination of Blood	Class divisible in three batches	Respective departments	10.15 - 12.00
DAY 37 25-04-2025 (Friday)							
8.00-8.45 am	121.	Prophylaxis of surgical infections: Use of antibiotics (according to type of surgery)				Surgery	45 mins
8.45-9.30 am	122.	Giardia lamblia, Entamoeba histolytica (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the microorganism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	123.	Anti amboeic drugs (1)				Pharmacology	45 min
10.30— 12.00pm		Practical		Batch A : Worm specimens Ascaris, Tenia, Hydatid cyst Batch B : group discussion Batch C : Confirmatory chemical examination of Blood	Class divisible in three batches	Respective departments	
DAY 38 26-04-2025 (Saturday)							
8.00-8.45 am	124.	Jdentification of living/ dead (Race and age determination)				Forensic Medicine	45min
8.45-9.30 am	125.	Acute Laryngitis				ENT	45 mins
9.30-10.15 am	126.	Post operative infections : Enophthalmitis, Panophthalmitis				Eye	45 mins
10.15- 11.00 am						ENT	45 mins
11.00- 11.45am						Pharmacology	45 mins

11.45-12.30pm						Pharmacology	45 mins
12.45—02.30		Practical		Batch B : Demonstration of malarial parasite Batch C : group discussion Batch A: Preliminary chemical examination of Blood	Class divisible in three batches	Respective departments	
DAY 39 28-04-2025 (Monday)							
8.00-8.45 am	127.	Anti Amoebics (2)				Pharmacology	45 mins
8.45-9.30 am	128.	Leishmania sp (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	129.	Metallic poisons (Mercury, copper, Thallium)				Forensic medicine	45 min
Hospital work 10.30-12.00							
12.10—02.00 pm		Practical		Batch C: Tutorial Batch A: group discussion Batch B: Plant poisons	Class divisible in three batches	Respective departments	
DAY 40 29-04-2025 (Tuesday)							
8.00-8.45 am	130.	Toxoplasmosis gonadi and pneumocystis Carinii (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	131.	Toxoplasmosis				Medicine	45 min
9.30-10.15 am	132.	Gender determination of living/ dead				Forensic medicine	45 mins

Hospital work 10.30-12.00							
12:10-02:00		Practical		Batch A : Worm specimens Ascaris, Tenia, Hydatid cyst Batch B : group discussion Batch C : Confirmatory chemical examination of Blood	Class divisible in three batches	Respective departments	
Day 41 30-04-2025 (Wednesday)							
8.00-8.45 am	136.	Prophylaxis of surgical infection : pre operative preperation				Surgery	45 mins
8.45-9.30 am	137.	Forensic Odontology				Forensic Medicine	45 mins
9.30-10.15 am	138.	Cryptosporidium and trichomonas vaginalis (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
Hospital work 10.30-12.00							
12.10— 02.30		PRACTICAL		Batch B : Worm specimens Ascaris, Tenia, Hydatid cyst Batch C : group discussion Batch A : Confirmatory chemical examination of Blood	Class divisible in three batches	Respective departments	
DAY 42 02-05-2025 (Friday)							
8.00-8.45 am	139.	Anti Helmintics (2)				Pharmacology	45 min
8.45-9.30 am	140.	Prophylaxis of surgical infection : Scrubbing techniques				Surgery	45 min
9.30-10.15 am	141.	Ascaris Lumbricoides (Pathogenesis, Epidemiology, prevention and control)				Pathology	45 min

10.30— 12.00		PRACTICAL		Batch A: tutorial Batch B: group discussion Batch C: Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	
DAY 43 03-05-2025 (Saturday)							
8.00-8.45 am	142.	Non metallic poisonous irritants (Phosphorus) Mechanical irritants				Forensic Medicine	45 min
8.45-9.30 am	143.	Acchylostoma duodenale (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	144					Orthopedics	45 mins
10.15- 11:00 am						Pathology	45 mins
11.00- 11.45 am						Surgery	45 mins
11.45- 12.30 Pm						Pharmacology	45 mins
12.45- 02.30pm		PRACTICAL		Batch B : Tutorial Batch C: group discussion Batch A: Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	
DAY 44 05-05-2025 (Monday)							
8.00-8.45 am	145.					Forensic Medicine	45 mins
8.45-9.30 am	146.					Forensic Medicine	45 min
9.30-10.15 am	147.	Entrobis Vermicularis and Trichris Trichuria (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 mins

Hospital work 10.30-12.00							
12.10-02.00Noon		PRACTICAL		Batch C : tutorial Batch A : group discussion Batch B : Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	
DAY 45 06-05-2025 (Tuesday)							
8.00-8.45 am	148	Strongyloides Stercoralis and Hymenolepis Nana (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	149.	Chronic Laryngitis				ENT	
9.30-10.15 am	150.	Infections of cornea : Bacterial keratitis, fungal keratitis, Herpes simplex keratitis, herpes Zoster, interstitial keratits, Protozoan keratitis				Eye	45 mins
Hospital work 10.30-12.00							
12:10-02:00Noon		PRACTICAL		Batch A : stool examination Batch B : group discussion Batch C : Examination of hair/Fibre	Class divisible in three batches	Respective departments	
DAY 46 07-05-2025 (Wednesday)							
8.00-8.45 am	151.	Finger prints and other congenital and acquired marks of identification				Forensic medicine	45 mins
8.45-9.30 am	152.	Filarial species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	153.					Orthopaedic surgery	45 mins

Hospital work				10.30-12.00			
12.10— 02.00pm		Practical		Batch B : stool examination Batch C: group discussion Batch A: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 47				08-05-2025 (Thursday)			
8.00-8.45 am	157.	Echinococcus Species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	158.	Establishment of identity from skeleton and skeletal remains				Forensic medicine	45 min
9.30-10.15 am	159.	Pharmacological agents used for Treatment of bronchial asthma				Pharmacology	45 mins
Hospital work				10.30-12.00			
12.10— 02.00		Practical		Batch C : stool examination Batch A: group discussion Batch B: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 48				09-05-2025 (Friday)			
8.00-8.45 am	160.	Taenia solium and Taenia saginata (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
8.45-9.30 am	161.	Career counseling				DME	45 mins
9.30-10.15 am	162.	Bronchdilators				Pharmacology	45 mins
10.30— 12.00		Practical		Batch A : stool examination Batch B : group discussion Batch C: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	

DAY 49							
10-05-2025 (Saturday)							
8.00-8.45 am	157.	Uveitis : Toxoplasmosis, Toxocariasis, Uveitis in HIV, Fungal uveitis, Bacterial uveitis				Eye	45 mins
8.45-9.30 am	158.	Schistosoma Species (Pathogenesis, Epidemiology, Prevention and Control,Treatment)		students should be able to know the characteristics of the micro organism, diseases caused by them, their investigations and treatment		Pathology	45 min
9.30-10.15 am	159.					Orthopedics	45 min
10:15-11:00am						Pharmacology	45 min
11:00-11:45am						Forensic Medicine	45 min
11:45-12:30pm						Orthopedics	45 min
12.45—02.30		Practical		Batch B : Tutorial Batch C: group discussion Batch A : Semen/ Seminal stain analysis	Class divisible in three batches	Respective departments	

DAY 50 12-05-2025 (Monday)							
8.00-8.45 am		Acute Sinusitis				ENT	45 min
8.45-9.30 am						Forensic Medicine	45 min
9.30-10.15 am		Clinical Aspects Of Ebola And Dengue Virus				Medicine	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch C : stool examination Batch A: group discussion Batch B: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 51 13-05-2025 (Tuesday)							
8.00-8.45 am						Forensic Medicine	45 min
8.45-9.30 am						Pharmacology	45 min
9.30-10.15 am						Orthopedics	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch A : stool examination Batch B: group discussion Batch C: Examination of hair/ Fibre	Class divisible in three batches	Respective departments	
DAY 52 14-05-2025 (Wednesday)							
8.00-8.45 am						Forensic Medicine	45 min
8.45-9.30 am						Pathology	45 min
9.30-10.15 am						EYE	45 min
Hospital work 10.30-12.00							
12.10-02.00pm		PRACTICAL		Batch B : Tutorial Batch C: group discussion Batch A: Species specific and microscopic examination of blood.	Class divisible in three batches	Respective departments	

DAY 53 15-05-2025 (Thursday)							
8.00-8.45 am						Surgery	
8.45-9.30 am						Forensic Medicine	
9.30-10.15 am						Pharmacology	
Hospital work				10.30-12.00			
12.45—02.30		Practical		Batch C : Tutorial Batch A: group discussion Batch B : Semen/ Seminal stain analysis	Class divisible in three batches	Respective departments	
DAY 54 16-05-2025 (Friday)							
SELF-STUDY							
DAY 55 17-05-2025 (Saturday)							
		Pathology Assessment (Special Bacteriology) (09:00 to 10:00am)					
Hospital work				10.30-12.00			
DAY 56 19-05-2025 (Monday)							
24-07-2024		Forensic Assessment (09:00 to 10:00am)					
Hospital work				10.30-12.00			
DAY 57 20-05-2025 (Tuesday)							
SELF-STUDY							
Hospital work				10.30-12.00			
DAY 58 21-05-2025 (Wednesday)							
		Pharmacology Assessment (09:00 to 10:00am)					
Hospital work				10.30-12.00			

All lectures and assessment will be conducted in Forensic Lecture Theatre.

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RESPIRATORY SYSTEM (Session 2024-25)

DURATION 17-03-2025 To 12-04-2025

CONTACT HOURS Lectures 49 =33.75 hours (2.1) + Practical's + Hospital stay = 31.45 Hours (0.6)

CREDIT HOURS 2.7

TEACHING METHODOLOGIES Lectures/ Practical's / small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of LUNGS & PLEURA. The interrelated clinical aspects of Medicine, Surgery, Eye, Ear, Nose and Throat and Gynecological problems will also be covered. By the end of the module, the students should be able to:

Discuss the Pathological and all clinical aspects of:

- Congenital Anomalies
- Tuberculosis
- Pulmonary infections
- Obstructive & Restrictive lung diseases
- Pulmonary edema
- Benign & malignant tumors of Lung, Pleura, Larynx
- Various related interventional techniques (Bronchoscopy, tracheostomy)
- Imaging

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
17-03-2025 Monday							
08:00 – 08:30	1.	Stridor				ENT	30 min
08:30 – 09:00	2.	Chicken pox and small pox		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease (Students will get full knowledge of disease determinants, distribution, dynamics, diagnostic investigations & effective preventive measures)		Community Medicine	30 min
09:00 – 09:30	3.	Topic Not Specified				Eye	30 min
Hospital work 10:10 a.m. to 1:00 p.m.							
18-03-2025 Tuesday							
08:00 – 08:30	4.	Topic Not Specified				Behavioral Sciences	30 min
08:30 – 09:00	5.	Congenital Anomalies Atelectasis, Pulmonary Edema				Pathology	30 min
09:00 – 09:30	6.	Management of respiratory failure				Anesthesia	30 min
HOSPITAL WORK 10:00 To 11:45						Community Lecture/Practical 11:45-1:00PM	
19-03-2025 Wednesday							
08:00 – 08:30	7.	Obstructive lung diseases		Clinical aspects		Chest Medicine	30 min
08:30 – 09:00	8.	Obstructive lung diseases		Pathogenesis, Morphology • Emphysema Chronic Bronchitis	Robbins & Cotrans	Pathology	30 min
09:00 – 09:30	9.	Measles and Mumps		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease		Community medicine	30 min
Hospital work 10:00 a.m. to 1:00 p.m.							
20-03-2025 Thursday							
08:00 – 08:30	10.	Physiological changes in Respiratory system in Pregnancy				Obstetrics & Gynecology	30 min
08:30 – 09:00	11.	Obstructive lung diseases		Pathogenesis& Morphology Asthma, Bronchiectasis	Robbins & Cotrans	Pathology	30 min

09:00 – 09:30	12.	Respiratory involvement in Systemic disorders		ILD, Vasculitis & Connective tissue disorders		Medicine	30 min
HOSPITAL WORK 10:00 To 11:45						Community Lecture /Practical 11:45-1:00PM	
21-03-2025 Friday							
08:00 – 08:30	13.	Respiratory Failure		Type I & II & Ventilator support		Medicine	30 min
08:30 – 09:00	14.	Pyogenic infections (Pneumococcal, H. influenzae, Meningococcal infections)		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease		Community medicine	30 min
09:00 – 09:30	15.	Perioperative management of Asthma & COPD & Post-operative pulmonary complications				Anesthesia	30 min
HOSPITAL WORK 10.10-12.00							
22-03-2025 Saturday							
08:00 – 08:30	16.	Empyema Thoracis				Surgery	30 min
08:30 – 09:00	17	Tracheostomy				ENT	30 min
09:00 – 09:30	18	Neurological causes of Type II Respiratory failure & Diagnostic approach				Neurology	30 min
Hospital work 10:10 a.m. to 1:00 p.m.							
24-03-2025 Monday							
08:00 – 08:30	19.	Bronchoscopy				ENT	30 min
08:30 – 09:00	20.	Restrictive Lung diseases		Pathogenesis & Morphology of Sarcoidosis Smoking related Interstitial diseases Feedback & Views of students in last 10mins about smoking	Robbins & Cotrans	Pathology	30 min
09:00 – 09:30	21.	Rubella & Influenza (Bird flu, SARS, MERS)		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease		Community medicine	30 min
Hospital work 10:10 a.m. to 1:00 p.m.							

25-03-2025 Tuesday							
08:00 – 08:30	22	Test				Pathology	30 min
08:30 – 09:00	23	Test				Pathology	30 min
09:00 – 09:30	24	Test				Pathology	30 min
Hospital Work 09:45a.m. To 11:00 a.m.							
PRACTICAL						Respective departments	11.45—1.00
26-03-2025 Wednesday							
08:00 – 08:30	25.	Pneumothorax		Presentation & management		Surgery	30 min
08:30 – 09:00	26.	Restrictive Lung diseases		Pathogenesis & Morphology of • Usual interstitial Pneumonia • Cryptogenic organizing Pneumonia • Pneumoconiosis • Silicosis • Asbestosis	Robbins & Cotrans	Pathology	30 min
09:00 – 09:30	27.	Anthrax & Plague/ Bioterrorism		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease		Community medicine	30 min
HOSPITAL WORK 09:45 To 01:00							
27-03-2025 Thursday							
08:00 – 08:30	28.	Pneumonias & lung abscess		Diagnosis & Management		Chest Medicine	30 min
08:30 – 09:00	29.	Pulmonary Infections		Pathogenesis & Morphology of • Chronic Pneumonia/Tuberculosis • Community acquired Pneumonia • Hospital acquired Pneumonia	Robbins & Cotrans	Pathology	30 min
09:00 – 09:30	30.	Tuberculosis		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease		Community Medicine	30 min

Hospital Work: 09: 45 to 11: 00 a.m.							
PRACTICAL						Respective departments	11.45—1.00
28-03-2025 Friday							
08:00 – 08:30	31.	Respiratory diseases in Pregnancy		- Asthma - Pulmonary edema		Obstetrics & Gynecology	30 min
08:30 – 09:00	32.	Pulmonary Infections		Pathogenesis & Morphology of - Aspiration Pneumonia - Pneumonia in Immunocompromised patients Lung abscess	Robbins & Cotrans	Pathology	30 min
09:00 – 09:30	33.					Eye	30 min
Hospital Work: 09: 45 to 1: 00 a.m.							
29-03-2025 Saturday							
08:00 – 08:30	34.	Tumors of lung		Symptoms & investigations		Chest Medicine	30 min
08:30 – 09:00	35.	Tumors of lung		Pathogenesis, Morphology of - Carcinomas - Neuroendocrine tumors - Metastatic tumors	Robbins & Cotrans	Pathology	30 min
09:00 – 09:30	36.	Mediastinal Masses		Clinical aspect & Management		Surgery	30 min
Hospital work: 09:45 a.m. to 1:00 p.m.							
Eid and Spring Holidays							
09-04-2025 Wednesday							
08:00 – 08:45	40.	Benign & malignant lesions of Larynx				ENT	45 min
08:45 – 09:30	41.	Diphtheria & Whooping cough		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease		Community medicine	45 min
09:30 – 10:15	42					Eye	45 min
Hospital work: 10.30-2.30							

10-04-2025 Thursday							
08:00 – 08:45	43.	Vascular Diseases of Lung		Pathogenesis, Morphology of • Pulmonary Embolism • Pulmonary Hypertension • Good Pasteur syndrome • Wegener Granulomatosis	Robbins & Cotrans	Pathology	45 min
08:45 – 09:30	44.	HIV/AIDS		Epidemiology, Outbreak, Investigations and Five levels of prevention of Disease		Community Medicine	45 min
09:30 – 10:15	45.	Relationship between stress, personality, emotions, immunity & respiratory illnesses				Behavioral Sciences	45 min
Hospital work 10.30-11.45							
PRACTICAL						Respective departments	12.00—2.30
11-04-2025 Friday							
08:00 – 08:45	46.	Chest wall Masses		Symptoms & investigations		Surgery	45 min
08:45 – 09:30	47.	Laryngeal Paralysis				ENT	45 min
09:30 – 10:15	48.	Management of type II respiratory failure associated with neurological diseases				Neurology	45 min
HOSPITAL WORK 10.30-12.00							
12-04-2025 Saturday							
08:00 – 08:45	49.	Diaphragm Hernias				Surgery	45 min
08:45 – 09:30	50.	Pleura		Pathogenesis & Morphology of • Pleural effusion • Pneumothorax • Pleural tumors	Robbins & Cotrans	Pathology	45 min
09:30 – 10:15	51.	Lung Injury		•		Medicine	45 min
Hospital work: 10.30-2.30							

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MODULE

HAEMODYNAMICS

DURATION **DAYS (10-07-2025 to 24-07-2025)**

CONTACT HOURS Lectures 27 = 20.5 hours + Practicals = 20 Hours + Hospital stay = 9 hours

CREDIT HOURS 1.8

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

LEARNING OBJECTIVES : This module is developed for 3rd year M.B:B.S students . It is intended to impart them core knowledge about the pathologies involved in haemodynamic circulation along with different pharmacological agents used to combat the clinical conditions. Students will also be introduced to clinical conditions which are encountered due to disturbances in haemodynamics. Lectures of forensic medicine and toxicology will also included in this module.

By the end of the module the students should be able to :

1. Apply the knowledge of the biochemical and cellular physiology to discuss the pathogenic mechanisms resulting in alterations in haemodynamics and shock.
2. Describe the clinical manifestations associated with these pathologic changes.
3. Discuss the role of different pharmacological agents used in clinical conditions which arise due to disturbance in haemodynamics.

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
WEEK 1							
DAY 1 10-07-2025 (Thursday)							
8.00-8.45am	1	Accidents in home and environment :Death due to drowning				Forensic Medicine	45 mins

8.45-09.30am	2	Oedema , Ascites, hydrothorax and Anasarca		To be able to define and categorize edema according to various pathophysiological categories	Robbins Pathology	Pathology	45 min
9.30-10.15am	3	Diuretics		Student should be able to enumerate various diuretics and understand their routes of administration absorption, distribution, metabolism and excretion.	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
Hospital work 10.30-12.00							
12.10—02.00		Practical		Batch C: Congestion of liver. Batch A : Small group discussion Batch B : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 2 11-07-2025 (Friday)							
8.00-8.45 am	4.	Haematinics		To be able to define and differentiate between hyperemia, congestion		Pharmacology	45 mins
8.45-9.30am	5.	Hyperemia and congestion				Pathology	45 mins
9.30-10.15am	6.	Accidents in home and environment : Burns (Dry and Wet burns)		Student should have sound knowledge of different types of burns.		Forensic Medicine	45 min
10.30— 12.00pm		PRACTICAL		Batch A: Pathology Batch B: Pharmacology Batch C: Forensic Medicine	Class divisible in three batches	Respective departments	
DAY 3 12-07-2025 (Saturday)							
8.00-8.45am	7.	Accidents in home and environment : Death due to starvation , Heat and cold effect		Students should be able to describe the effects of starvation and cold/ heat on body.		Forensic Medicine	45 mins
8.45-9.30am	8.					Pathology	45 mins
9.30-10.15am	9.	Coagulants				Pharmacology	45 min
10.15-11.00am	10.					Pharmacology	45 min
11.00-11.45am	11.					Medicine	45 min
11.45-12.30pm	12.					Surgery	45 min

12.45—02.30		PRACTICAL		Batch B : Congestion of liver Batch C : Small group discussion Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 4 14-07-2025 (Monday)							
8.00-8.45am	13.	Shock Its pathophysiology, types (hypovlemic , cardiogenic, vasovagal and septic) , causes and compensatory mechanisms involved.			Robbins pathology	Pathology	45 mins
8.45-9.30am	14.	Haemorrhage			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
9.30-10.15am	15.	Arsenic poisoning				Forensic medicine	45 min
Hospital work 10.30-12.00							
12.10—02.00		PRACTICAL		Batch C: Pathology Batch A: Small group Discussion Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 5 15-07-2025 (Tuesday)							
8.00-8.45am	16.	Anticoagulants : Heparin (low molecular weight and unfractionated)		The use of anticoagulants in various clinical conditions	Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30am	17	Infarction: Its types, morphological picture and differences between different types.				Pathology	45 min
9.30-10.15am	18	Mesenteric Ischaemia				Surgery	45 mins
Hospital work 10.30-12.00							
12.10-2.00pm		PRACTICAL		Batch A: Pathology Batch B: small group discussion Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

DAY 6 16-07-2025 (Wednesday)							
8.00-8.45am	19	Overview of myocardial infarction				Medicine	45 mins
8.45-9.30am	20					Orthopedics	45 min
9.30-10.15am	21	Thrombosis: Etiology and pathogenesis, possible consequences. Differences between thrombi and clot.		To be able to define and differentiate various types of embolism	Robbins Pathology	Pathology	45 min
Hospital work 10.30-12.00							
12.10 —02.00		PRACTICAL		Batch: B Pathology Batch: C Small group discussion Batch: A Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 7 17-07-2025 (Thursday)							
8.00-8.45am	22.	Thrombophlebitis , deep venous thrombosis				Surgery	45 min
8.45-9.30am	23.	Fibrinolytics and antiplatelet drugs				Pharmacology	45 mins
9.30-10.15am	24.	Vascular lesions of orbit / eye; AV Shunt/ Malformatins/ communications Carotico sinus thrombosis Cavernous sinus thrombosis Haemangioma of orbit/ eye				Eye	45 mins
Hospital work 10: 30 to 12: 00 p.m.							
12: 10 —2:00		Practical		Batch C : Pathology Batch A : Small group discussion Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	Practical
Day 08 18-07-2025 (Friday)							
8.00-8.45am	25	Embolism: Classification of emboli according to their composition. Differences between arterial and venous thrombi				Pathology	45 mins
08.45-09.30am	26	Warfarin and other drugs				Pharmacology	45 mins

09.30-10.15am	27	Complications of trauma : Thromboembolic phenomenon, haemorrhage, shock, Pulmonary, Air and fat embolism, Crush syndrome				Forensic medicine and toxicology	45 Mins
10.30— 12.00pm		Practical		Batch A : Pathology Batch B : Small group discussion Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
Day 09 19-07-2025 (Saturday)							
		Self-Study	Hospital Work (10:30 – 12.00pm)				
Day 10 21-07-2025 (Monday)							
		Pathology Assessment (Special Microbiology (09:00-10.00am)		Hospital Work (10:30 – 12.00pm)			
Day 11 22-07-2025 (Tuesday)							
		Pharmacology Assessment (09:00-10.00am)		Hospital Work (10:30 – 12.00pm)			
Day 12 23-07-2025 (Wednesday)							
		Self-Study		Hospital Work (10:30 – 12.00pm)			
Day 13 24-07-2025 (Thursday)							
		Forensic Assessment (09:00-10.00am)		Hospital Work (10:30 – 12.00pm)			

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HAEMODYNAMICS MODULE OF 3RD YEAR MBBS (10-07-2025 24-07-2025)

10-07-25	Thursday	Forensic Medicine	Pathology	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
11-07-25	Friday	Pharmacology	Pathology	Forensic medicine	Practical Respective Department (10:30-12.00pm)			A: Pathology B: Pharmacology C: Forensic medicine
12-07-25	Saturday	Forensic medicine	Pathology	Pharmacology	Pharmacology (10.15-11.00 am)	Medicine 11.00-11.45am	Surgery (11.45-12.30)	B: Pathology C: Pharmacology A: Forensic medicine 12.45-02.30PM
14-07-25	Monday	Pathology	Pharmacology	Forensic Medicine	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
15-07-25	Tuesday	Pharmacology	Pathology	surgery	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
16-07-25	Wednesday	Medicine	Orthopedics	Pathology	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine
17-07-25	Thursday	Surgery	Pharmacology	EYE	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
18-07-25	Friday	Pathology	Pharmacology	Forensic Medicine	Practical Respective Department (10:30-12.00pm)			A: Pharmacology B: Forensic C: Pathology
19-07-25	Saturday	Self-Study			Hospital work 10.30-12.00pm			
21-07-25	Monday	Pathology Assessment Special Bacteriology (9.00-10.00 am)			Hospital work 10.30-12.00pm			
22-07-25	Tuesday	Pharmacology Assessment (9.00-10.00 am)			Hospital work 10.30-12.00pm			
23-07-25	Wednesday	Self-Study			Hospital work 10.30-12.00pm			
24-07-25	Thursday	Forensic Assessment (9.00-10.00 am)			Hospital work 10.30-12.00pm			

3RD INTERMODULE (25-07-2025 to 13-08-2025)								
Date	Day	8.00-8.45 am	8.45-9.30am	9.30-10.15am	Hospital work 10.30-12.00pm			Practical 12.10-2.00 pm
25-07-25	Fri	Pharmacology	Forensic medicine	Medicine	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
26-07-25	Saturday	Pharmacology	Forensic medicine	Forensic medicine	Medicine (10.15-11.00 am)	Surgery 11.00-11.45am	ENT (11.45-12.30)	B: Pathology C: Pharmacology A: Forensic medicine (12.45-02.30pm)
28-07-25	Monday	Forensic medicine	Behavioral sciences	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
29-07-25	Tuesday	Pharmacology	Orthopaedics	Surgery	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
30-07-25	Wednesday	Forensic medicine	Pharmacology	Behavioral sciences	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine
31-07-25	Thursday	Pharmacology	Forensic Medicine	Surgery	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
01-08-25	Friday	Behavioral Sciences	Forensic Medicine	Pharmacology	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
02-08-25	Saturday	Pharmacology	Forensic medicine	Pharmacology	Pharmacology (10.15-11.00 am)	Medicine 11.00-11.45am	Forensic Medicine (11.45-12.30)	B: Pathology C: Pharmacology A: Forensic medicine (12.45-02.30pm)
04-08-25	Monday	Pharmacology	Forensic medicine	Behavioural sciences	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine

05-08-25	Tuesday	Forensic medicine	Pharmacology	ENT	Hospital work 10.30-12.00pm	A: Pathology B: Pharmacology C: Forensic medicine
06-08-25	Wednesday	Forensic medicine	Pharmacology	Behavioral sciences	Hospital work 10.30-12.00pm	B: Pathology C: Pharmacology A: Forensic medicine
07-08-25	Thursday	Self-Study			Hospital work 10.30-12.00pm	
08-08-25	Friday	Pharmacology Assessment (9.00-10.00 am)			Hospital work 10.30-12.00pm	
09-08-25	Saturday	Self-Study			Hospital work 10.30-12.00pm	
11-08-25	Monday	Pathology Assessment (Virology, Parasitology & Hemodynamic) (9.00-10.00 am)			Hospital work 10.30-12.00pm	
12-08-25	Tuesday	Self-Study			Hospital work 10.30-12.00pm	
13-08-25	Wednesday	Forensic Assessment (9.00-10.00 am)			Hospital work 10.30-12.00pm	

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3RD INTERMODULE/BEHAVIORIAL SCIENCES

DURATION 12 DAYS (25-07-2025 to 13-08-2025)

CONTACT HOURS Lectures =22 hours + Practicals = 22.50 Hours + Hospital stay = 10.5 HOURS

CREDIT HOURS 2

DAY 1 25-07-25(Friday)							
8.00-8.45	1	CNS				Pharmacology	45 min
8.45-9.30	2	FORENSIC ASPECT OF VIOLENT ASPHYXIAL DEATHS; mechanism ,physio-chemico-pathological changes				Forensic Medicine	45 min
9.30-10.15	3		-	=	-	Medicine	45 min
10.30—12.00		PRACTICAL		BATCH A : Pathology Batch B: Pharmacology Batch C: Forensic Medicine	Class divisible in three batches	Respective departments	
DAY 2 26-07-2025(Saturday)							
8.00-8.45	4	CNS			Basic and clinical pharmacology	Pharmacology	45 min
8.45-9.30	5	Autopsy findings (interpretation + cause of death)		smothering ,suffocation, ,strangulation ,hanging & Traumatic asphyxia		Forensic medicine	45 min
9.30-10.15	6	Surgical wounds			-	Forensic Medicine	45 min
10.15-11:00						Medicine	45 min
11.00-11.45						Surgery	45 min
11.45-12.30						ENT	45 min
12.45-02:30pm		PRACTICAL		BATCH B : Pathology Batch C: Pharmacology Batch A: Forensic Medicine	Class divisible in three batches	Respective departments	

DAY 3				28-07-2025 (Monday)			
8.00-8.45	7	Autopsy findings (interpretation + cause of death)		smothering ,suffocation, ,strangulation ,hanging & Traumatic asphyxia		Forensic medicine	45 min
8.45-9.30	8	Alzeihmers disease				Behaviorial sciences	45 min
9.30-10.15	9	CNS				Pharmacology	45 min
Hospital work				10.30-12.00			
12:10-02:00pm		PRACTICAL		BATCH C: Pathology Batch A: Pharmacology Batch B:Forensic Medicine	Class divisible in three batches	Respective departments	
DAY 4				29-07-2025 (Tuesday)			
8.00-8.45	10	CNS				Pharmacology	45 min
8.45-9.30	11					Orthopedics	45 min
9.30-10.15	12	Surgical site infection				surgery	45 min
Hospital work				10.30-12.00			
12.10—02.00		PRACTICAL		BATCH A : Pathology Batch B : Pharmacology Batch C : Forensic Medicine Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 5				30-07-2025 (Wednesday)			
8.00-8.45 am	13	MEDICOLEGAL ASPECTS OF SEX		Current laws regarding impotency ,sterility, marriage & sexual abuse	Robbins Pathology	Forensic medicine	45 min
8.45-9.30	14	CNS				Pharmacology	45 min
9.30-10.15	15	Mental health act				Behaviorial sciences	45 min
Hospital work				10.30-12.00			
12.10—02.00		PRACTICAL		BATCH B: Pathology Batch C: Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

DAY 6	31-07-2025 (Thursday)						
8.00-8.45	19.	CNS			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30	20	Legal & ethical issues		regarding impotency ,sterility, marriage & sexual abuse		Forensic Medicine	45 MIN
9.30-10.15	21	Skin closure techniques				surgery	45 min
Hospital work 10.30-12.00							
12.10-02.00		PRACTICAL		Batch C : Pathology Batch A : Pharmacology Batch B : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 7	01-08-2025 (Friday)						
8.00-8.45	22.	Ethics & professionalsim				Behaviorial sciences	45 min
8.45-9.30	23.	Legal implications in cases of sexual assault				Forensic medicine	45 min
9.30-10.15	24.	CNS			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
10.30 — 12.00		PRACTICAL		Batch A: Pathology Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	45 min
DAY 8 02-08-2025 (Saturday)							
8.00-8.45	25.	CNS			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30	26.	Legal and ethical issues related to unwanted pregnancy				Forensic medicine	45 min
9.30-10.15	27.					Pharmacology	45 min
10.15-11.00						Pharmacology	45 min

11.00-11.45						Medicine	45 min
11.45-12.30						Surgery	45 min
12.45-02.30		Practical		Batch B: Pathology Batch C: Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 9 04-08-2025 (Monday)							
8.00-8.45		CNS				Pharmacology	45 min
8.45-9.30		Criminal abortion; identification at autopsy				Forensic Medicine	45 min
9.30-10.15		Patient doctor relationship				Behavior Sciences	45 min
Hospital work 10.30-12.00							
12.10 — 02.00		PRACTICAL		Batch C: Pathology Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 10 05-08-2025 (Tuesday)							
8.00-8.45		Procedure for collection preservation dispatch of specimen in cases of sexual assault				Forensic Medicine	45 min
8.45-9.30		CNS				Pharmacology	45 min
9.30-10.15						ENT	45 min
Hospital work 10.30-12.00							
12.10 — 02.00		PRACTICAL		Batch A: Pathology Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

DAY 11 06-08-2025 (Wednesday)							
8.00-8.45		Other medicolegal aspects of sex				Forensic Medicine	45 min
8.45-9.30		CNS				Pharmacology	45 min
9.30-10.15		Non communicable psychiatric illness				Behavioral Sciences	45 min
Hospital work 10.30-12.00							
12.10 — 02.00		PRACTICAL		Batch B: Pathology Batch C: Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 12 07-08-2025 (Thursday)							
		Self-study					
		Hospital Work					
DAY 13 08-08-2025 (Friday)							
		Pharmacology Assessment					
		Hospital Work					
DAY 14 09-08-2025 (Saturday)							
		Self-study					
		Hospital Work					
DAY 15 11-08-2025 (Monday)							
		Pathology Assessment (Virology, Parasitology & Hemodynamic)					
		Hospital Work					
DAY 16 12-08-2025 (Tuesday)							
		Self-study					
		Hospital Work					
DAY 17 13-08-2025 (Wednesday)							
		Forensic Assessment					
		Hospital Work					

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MUSCULOSKELETAL SYSTEM, 2025

DURATION 18 DAYS

Dated: 11-08-25 to 30-08-25

CONTACT HOURS Lectures 22 = 16.5 hours (1) + Practical's + Hospital stay = 44 Hours (0.91)

CREDIT HOURS 2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of Bones, Joints & Soft tissue. The interrelated clinical aspects of Medicine, Surgery, Orthopaedics will be covered. The radiological aspects will also be dealt with. By the end of the module, the students should be able to:

1. Describe:

Basic structure & function of Bones, Joints & soft tissue

2. Discuss the Pathological and all clinical aspects of:

- Congenital bone diseases
- Acquired bone diseases
- Tumours of bones, joints & soft tissue
- Various types of Arthritis

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
11-8-25 Monday							
8:00-8:45	1					Orthopaedics	45 min
8:45-9:30	2	Developmental disorders of Bone & Cartilage		Metabolic disorders	Robbins & Cotran	Pathology	45 min
9:30-10:15	3	Developmental dysplasia of bone				Radiology	45 min
Hospital work 10.30-2.30							
12-08-25 Tuesday							
8:00-8:45	4.	Rickets & Osteomalacia, Osteoporosis		Definition, Causes, Clinical Features, Investigations and management of Rickets & Osteomalacia. Definition, Causes, Clinical Features, Investigations and management of Osteoporosis		Medicine	45 min
8:45-9:30	5.	Metabolic & Degenerative bone diseases				Radiology	45 min
9:30-10:15	6.					Orthopaedics	45 min
Hospital work 10.30-11.45							
		PRACTICAL		<u>-- OVERVIEW</u> <u>-- PRACTICAL</u> <u>-- SMALL GROUP DISCUSSIONS</u>		Respective departments	12.00—2.30
13-08-25 Wednesday							
8:00-8:45	7.	Rickets & Osteomalacia		Definition, Causes, Clinical Features, Investigations and management of Rickets & Osteomalacia.		Medicine	45 min
8:45-9:30	8.					Orthopaedics	45 min
9:30-10:15	9.	Acquired Bone diseases		Pathophysiology of - Osteoporosis - Paget's disease	Robbins & Cotran	Pathology	45 min
Hospital work 10.30-2.30							
14-08-25 Thursday (Holiday)							
15-08-25 Friday							
8:00-8:45	13.	Osteomyelitis		Surgical Aspects		Surgery	45 min
8:45-9:30	14	Fractures				Radiology	45 min

9:30-10:15	15	Bone tumours		• Bone and cartilage forming tumours	Robbins & Cotran	Pathology	45 min
HOSPITAL WORK 10.30-12.00							
16-08-25 Saturday							
8:00-8:45	16.	Basic principles of Fracture management		•		Surgery	45 min
8:45-9:30	17.	Multiple Myeloma		Definition, Causes, Clinical Features, Investigations and management of Multiple Myeloma	•	MEDICINE	
9:30-10:15	18.	Tumours of Bones				Radiology	45 min
HOSPITAL WORK 10.30-2.30							
18-08-25 Monday							
8:00-8:45		Arthritis		Etiology, Pathogenesis & Morphology with special emphasis over Osteoarthritis, Rheumatoid Arthritis	Robbins & Cotran	Pathology	45 min
8:45-9:30	21					Orthopedics	45 min
9:30-10:15	22	Hyperparathyroidism. Renal osteodystrophy		Definition, Causes, Clinical Features, Investigations and management of Hyperparathyroidism and Renal osteodystrophy		Medicine	
Hospital work 10.30-2.30							
19-08-25 Tuesday							
8:00-8:45	23					Orthopedics	45 min
8:45-9:30	24	Arthritis		Clinical features of Arthritis. Case scenario.....Rheumatoid arthritis	•	Medicine	45 min
9:30-10:15	25.	Inflammatory conditions		Bones & Joints		Radiology	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Respective departments	12.00—2.30
20-08-25 Wednesday							
8:00-8:45	26	Soft tissue infection				Surgery	45 min
8:45-9:30	27	Seronegative Arthritis		Seronegative Arthritis.....Case Scenarios.		Medicine	45 min
9:30-	28	Other types of arthritis				Pathology	45 min

10:15							
Hospital work				10.30-2.30			
21-08-25 Thursday							
8:00-8:45		Infectious arthritis & Crystal induced arthritis		Etiology, Pathogenesis & Morphology of Gout	Robbins & Cotran	Pathology	45 min
8:00-8:45	29.					Orthopedics	45 min
8:45-9:30	30.	Crystal Arthropathy		Definition, Causes, Clinical Features, Investigations and management of Crystal Arthropathy (Gout)	•	Medicine	45 min
Hospital work				10.30-11.45			
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
22-08-25 Friday							
8:00-8:45	32.	Soft tissue tumors				Pathology	45 min
8:45-9:30	33	Soft tissue tumor				Radiology	45 min
9:30-10:15	33	Soft tissue tumors (Benign)		Surgical Aspects		Surgery	45 min
		HOSPITAL WORK				Respective departments	10.30-12.00
23-08-25 Saturday							
8:00-8:45	34.	Bone & soft tissue sarcomas Overview				Oncology	45 min
8:45-9:30	35.	Soft tissue tumor (Sarcoma)				Surgery	
9:30-10:15	36.					Orthopedics	45 min
Hospital work				10.30-2.30			
25-08-2025 Monday							
8:00-8:45	37					Orthopedics	45 min
8:45-9:30	38					Radiology	45 min
9:30-10:15	39					Surgery	45 min
Hospital work				10.30-2.30			

26-08-2025 Tuesday							
8:00-8:45	40					Medicine	45 min
8:45-9:30	41					Orthopedic	45 min
9:30-10:15	42					Radiology	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
27-08-2025 Wednesday							
8:00-8:45	43					Surgery	45 min
8:45-9:30	44					Medicine	45 min
9:30-10:15	45					Orthopedic	45 min
Hospital work 10.30-2.30							
28-08-2025 Thursday							
8:00-8:45	46					Pathology	45 min
8:45-9:30	47					Surgery	45 min
9:30-10:15	48					Radiology	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
29-08-2025 Friday							
8:00-8:45	49					Medicine	45 min
8:45-9:30	50					Oncology	45 min
9:30-10:15	51					Orthopedics	45 min
HOSPITAL WORK 10.30-12.00							
30-08-2025 Saturday							
8:00-8:45	52					Oncology	45 min
8:45-9:30	53					Surgery	45 min

9:30-10:15	54					Radiology	45 min

All lectures will be conducted in Maqboold Ahmad, Block of KEMU, Lahore.

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TIME TABLE OF 3rd YEAR MBBS (4th Intermodule)
15-08-2025 to 10-09-2025

Date	Day	8.00-8.45 am	8.45-9.30am	9.30-10.15am	Hospital work			Practical 12.10-2.00 pm
15-08-25	Friday	Pathology	Medicine	Pharmacology	Practicals Respective Departments (10:30-12:00pm)			A: Pathology B: Pharmacology C: Forensic medicine
16-08-25	Saturday	Medicine	Pathology	Pharmacology	Pharmacology 10:15-11:00	Medicine 11:00-11:45	Surgery 11:45-12:30	B: Pathology C: Pharmacology A: Forensic medicine 12:45PM-02:30PM
18-08-25	Monday	Ophthalmology	Pharmacology	Pathology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
19-08-25	Tuesday	Pharmacology	Orthopedics	ENT	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
20-08-25	Wednesday	Pharmacology	Pharmacology	Orthopedics	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine
21-08-25	Thursday	Pharmacology	Orthopedics	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
22-08-25	Friday	Pharmacology	Ophthalmology	Pathology	Practicals Respective Departments (10:30-12:00pm)			A: Pathology B: Pharmacology C: Forensic medicine
23-08-25	Saturday	Pathology	Ophthalmology	Pharmacology	Pharmacology 10:15-11:00	Orthopedics 11:00-11:45	ENT 11:45-12:30	B: Pathology C: Pharmacology A: Forensic medicine 12:45PM-02:30PM
25-08-25	Monday	Ophthalmology	Pathology	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
26-08-25	Tuesday	Pharmacology	Pharmacology	Pathology	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine

27-08-25	Wednesday	Pharmacology	Pathology	Pharmacology	Hospital work 10.30-12.00pm			B: Pathology C: Pharmacology A: Forensic medicine
28-08-25	Thursday	ENT	Pathology	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
29-08-25	Friday	Pharmacology	Ophthalmology	Pharmacology	Practicals Respective Departments (10:30-12:00pm)			A: Pathology B: Pharmacology C: Forensic medicine
30-08-25	Saturday	Pharmacology	Surgery	Pharmacology	Pharmacology 10:15-11:00	Orthopedics 11:00-11:45	ENT 11:45-12:30	B: Pathology C: Pharmacology A: Forensic medicine 12:45PM-02:30PM
01-09-25	Monday	Ophthalmology	Pharmacology	ENT	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine
02-09-25	Tuesday	Pharmacology	Surgery	Orthopedics	Hospital work 10.30-12.00pm			A: Pathology B: Pharmacology C: Forensic medicine
03-09-25	Wednesday	Surgery	Orthopedics	ENT	Hospital work 10.30-12.00pm			C: Pathology A: Pharmacology B: Forensic medicine

04-09-25	Thursday	SELF-STUDY	Hospital work 10.30-12.00pm
05-09-25	Friday	Pharmacology Assessment	Hospital work 10.30-12.00pm
06-09-25	Saturday	SELF-STUDY	Hospital work 10.30-12.00pm
08-09-25	Monday	Pathology Assessment	Hospital work 10.30-12.00pm
09-09-25	Tuesday	SELF-STUDY	Hospital work 10.30-12.00pm
10-09-25	Wednesday	Forensic Assessment	Hospital work 10.30-12.00pm

All lectures and assessment will be conducted in Forensic Lecture Theatre.

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TIME TABLE OF 3rd YEAR MBBS (4th Intermodule)

24-10-2022 to 26-10-2022

Date	Day	8.00-8.45 am	8.45-9.30am	9.30-10.15am	Practical 10:30-12:30 p.m.
24-10-22	Monday	Ophthalmology	Forensic Medicine	ENT	Batch: B Squamous Cell Carcinoma
25-10-22	Tuesday	PHARMACOLOGY CLASS TEST		Ortho	Batch: B Batch: C Leiomyoma
26-10-22	Wednesday	Surgery	Orthopedics	ENT	

All lectures and assessment will be conducted in Library Hall in Patiala Block.

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4TH INTERMODULE

DURATION 15 DAYS

CONTACT HOURS Lectures =44 hours + Practicals= 44.50 Hours + Hospital stay = 20.5 HOURS

CREDIT HOURS 4

DAY 1 (15-08-2025) Friday							
8.00-8.45	1.				Robbins Pathology	Pathology	45 min
8.45-9.30	2.	Symptoms of Immunological /connective tissue disorders		CASE SCENARIOS: Monoarthritis Polyarthritis SLE Disorders of calcium metabolism		Medicine	45 Min
9.30-10.15	3.	Endocrinology				Pharmacology	45 min
10.30-12.00		PRACTICAL		BATCH A: Pathology Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 2 (16-08-2025) Saturday							
8.00-08.45	3.	Symptoms of Endocrinology Disorders & Diabetes				Medicine	45 Min
8.45-09.30	4.					Pathology	45 Min
9.30-10.15	5.					Pharmacology	45 Min
10.15-11.00						Pharmacology	45 Min
11.00-11.45						Medicine	45 Min
11.45-12.30						Surgery	45 Min

12.45-02.30		Practical		BATCH B: Small Group Discussion Batch C: Pharmacology Batch A: Medicolegal / autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective Departments	
DAY 3 (18-08-2025) Monday							
8.00-8.45	9.					Ophthalmology	45 min
8.45-9.30	10.	Endocrinology			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	
9.30-10.15	11.					Pathology	45 min
Hospital Work (10.30 – 12.00)							
12.10-02.00		Practical		BATCH C: Small Group Discussion Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective Departments	
DAY 4 (19-08-2025) Tuesday							
8.00-8.45	12.					Pharmacology	
8.45-9.30	13.					Orthopedics	
9.30-10.15	14.	ENT INFECTIONS		MTB , Cornebacterium diphtheria		ENT	45 min
Hospital Work (10.30 – 12.00)							
12.10-02.00		PRACTICAL		Batch A: small group discussions Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 5 (20-08-2025) Wednesday							
8.00-8.45	15.	Endocrinology				Pharmacology	45 min
8.45-9.30	16.					Pharmacology	45 min
9.30-10.15	17.					Orthopaedics	45 min

Hospital Work (10.30 – 12.00)							
12.10-02.00		Practical		Batch C: small group discussions Batch C : Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 6 (21-08-2025) Thursday							
8.00-8.45	18.	GIT			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30	19.					Orthopedics	45 min
9.30-10.15	20.	Revision				Pharmacology	45 min
Hospital Work (10.30 – 12.00)							
12.10-02:00		Practical		Batch C : small group discussions Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 7 (22-08-2025) Friday							
8.00-8.45	21.	GIT				Pharmacology	45 min
8.45-9.30	22.					Ophthalmology	45 min
9.30-10.15	23.					Pathology	45 min
10.30-12.00		Practical		Batch A: pathology: Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 8 (23-08-2025) Saturday							
8.00-8.45	24.					Pathology	45 min
8.45-9.30	25.					Ophthalmology	45 min
9.30-10.15	26.					Pharmacology	45 min

10.15-11.00						Pharmacology	45 min
11.00-11.45						Ophthalmology	45 min
11.45-12.30						ENT	45 min
12.45-02.30		PRACTICAL		BATCH B: Pathology Batch C: Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 9 (25-08-2025) Monday							
8.00-8.45	30.					Ophthalmology	45 min
8.45-9.30	31.					Pathology	45 min
9.30-10.15	32.	GIT				Pharmacology	45 min
Hospital work 10.30-12.00							
12.10-02.00		PRACTICAL		Batch C: Pathology Batch A : Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 10 (26-08-2025) Tuesday							
8.00-8.45	33.					Pharmacology	45 min
8.45-9.30	34.	GIT			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
9.30-10.15	35.					Pathology	45 min
Hospital work 10.30-12.00							
12.10 -02.00		PRACTICAL		Batch A: Pathology Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 11 (27-08-2025) Wednesday							
8.00-8.45	36.					Pharmacology	45 min
8.45-9.30	37.					Pathology	45

9.30-10.15	38.					Pharmacology	45 min
Hospital work				10.30-12.00			
12.1-02.00		Practical		Batch B small group discussions Batch C : Pharmacology practical Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 12 (28-08-2025) Thursday							
8.00-8.45	39.					ENT	45 min
8.45-9.30	40.					Pathology	45 min
9.30-10.15	41.	GIT			Basic & clinical pharmacology 12 th edition Katzung	Pharmacology	45 min
Hospital work				10.30-12.00			
12.10-02.00		PRACTICAL		Batch C : small group discussions Batch A : Pharmacology practical Batch B : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 13 (29-08-2025) Friday							
8.00-8.45	42.	GIT				Pharmacology	45 min
8.45-9.30	43.					Ophthalmology	45 min
9.30-10.15	44.	GIT				Pharmacology	45 min
10.30-12:00		PRACTICAL		Batch A : Pathology Batch B : Pharmacology practical Batch C : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 14 (30-08-2025) Saturday							
8.00-8.45	45.	GIT				Pharmacology	45 min
8.45-9.30	46.					Surgery	45 min
9.30-10.15	47.					Pharmacology	45 min
10.15-11.00						Pharmacology	45 min
11.00-11.45						Orthopedics	45 min

11.45-12.30						ENT	45 min
12.45-02.30		PRACTICAL		Batch B : small group discussions Batch C : Pharmacology practical Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 15 (01-09-2025) Monday							
8.00-8.45	39.					Ophthalmology	45 min
8.45-9.30	40.					Pharmacology	45 min
9.30-10.15	41.					ENT	45 min
Hospital work 10.30-12.00							
12.10-02.00		PRACTICAL		Batch C : Pathology Batch A : Pharmacology practical Batch B : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 16 (02-09-2025) Tuesday							
8.00-8.45						Pharmacology	45 Min
8.45-9.30						Surgery	45 Min
9.30-10.15						Orthopedics	45 Min
Hospital work 10.30-12.00							
12.10-02:00		PRACTICAL		Batch A : Pathology Batch B : Pharmacology practical Batch C : Medicolegal/ autopsy/ analytical/serology/ radiological lab			
DAY 17 (03-09-2025) Wednesday							
8.00-8.45	39.					Surgery	45 min
8.45-9.30	40.					Orthopedics	45 min
9.30-10.15	41.					ENT	45 min

Hospital work				10.30-12.00			
12.10-02.00		PRACTICAL		Batch B: Pathology Batch C: Pharmacology practical Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab			
DAY 18 (04-09-2025) Thursday							
SELF-STUDY					Hospital Work (10.30-12.00pm)		
DAY 19 (05-09-2025) Friday							
Pharmacology Assessment				Hospital Work (10.30-12.00pm)			
DAY 20(06-09-2025) Saturday							
SELF-STUDY					Hospital Work (10.30-12.00pm)		
DAY 21 (08-09-2025) Monday							
Pharmacology Assessment					Hospital Work (10.30-12.00pm)		
DAY 22 (09-09-2025) Tuesday							
SELF-STUDY					Hospital Work (10.30-12.00pm)		
DAY 23 (10-09-2025) Wednesday							
Forensic Medicine Assessment					Hospital Work (10.30-12.00pm)		

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MODULE

NEOPLASIA

DURATION **9 DAYS (11-09-2025 to 20-09-2025)**

CONTACT HOURS Lectures =22.5 hours + Practicals =22.50 Hours + Hospital stay = 10.5 HOURS

CREDIT HOURS = 2.0

TEACHING METHODOLOGIES Lectures/Practicals/clinics

OBJECTIVES

The course is designed primarily for 3rd year M.B;B.S students and will cover the fundamental aspects of NEOPLASIA and the pharmacology of antineoplastic drugs with interrelated clinical aspects of Medicine, Surgery, Orthopedics ,Eye , Ear, Nose and Throat. By the end of the module, the students should be able to :

1. Describe:

- The differences between Benign and Malignant neoplasms
- Epidemiology of Cancer
- Neoplastic conditions of orbit , eyelid and ENT
- Molecular genetics of Neoplasia

2. Discuss the role of:

Chemotherapy, anticancer drug development, Neoplasia cell burden, Cell cycle Kinetics, resistance to cytotoxic drugs

3. Clinical aspects of neoplasia :

Cancer Cachexia, Para neoplastic syndrome

4. Diagnosis , staging and surgical intervention

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT	FACILITATOR
DAY 1 11-09-2025 (Thursday)							
8.00-8.45	1	Introduction to Neoplasia		The students should be able to define the terms : Neoplasia , dysplasia , metaplasia, anaplasia, They should be familiar with the nomenclature of neoplasia	Robbins Pathology	Pathology	45 min
8.45-9.30	2	Evolution of pre malignant conditions into malignancy : case scenario of Colonic CA developing in ulcerative colitis				Medicine	
9.30-10.15	3	Introduction to Cancer chemotherapy, anticancer drug development, Neoplasia cell burden, Cell cycle Kinetics, resistance to cytotoxic drugs			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
Hospital work 10.30-12.00							
12:10-02:00		Practical		Batch C: Fibroadenoma, Leiomyoma Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 2 12-09-2025 (Friday)							
8.00-8.45	4.	Basic Pharmacology of cancer chemotherapeutic drugs, Polyfunctional alkylating agents, antimetabolites, antibiotics and hormonal agents			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30	5.	Benign and malignant neoplasms		The students should be able to: Enumerate the differences between benign and malignant neoplasms . Describe the process of metastasis		Pathology	45 min
9.30-10.15	6.	Epidemiology of cancer				Community Medicine	45 min

10.30-12.00		PRACTICAL		Batch A: Fibroadenoma, Leiomyoma, Lipoma Batch B : Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
13-09-2025 (Supplementary 1st Modular Assessment of 3rd year only for supply students (10:00am to 12:00noon Topics: General Microbiology, Inflammation, Cell Injury & Repair and Genetics							
DAY 4				15-09-2025 (Monday)			
8.00-8.45	10.	Clinical presentations of common neoplastic conditions				Medicine	45 mins
8.45-9.30	11.	Molecular genetics of cancer : Role of tumor suppressor genes : RB gene and P53			Robbins Pathology	Pathology	45 min
9.30-10.15	12.	Basic Pharmacology of cancer chemotherapeutic drugs, Polyfunctional alkylating agents, antimetabolites, antibiotics and hormonal agents			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
Hospital work				10.30-12.00			
12.10-02.00		PRACTICAL		Batch C: Fibroadenoma, Leiomyoma, Lipoma Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 5				16-09-2025 (Tuesday)			
8.00-8.45	13.	Causes and screening for neoplasia				Surgery	45 min
8.45-9.30	14.	Molecular genetics of cancer : Role of tumor suppressor genes : APC ,WTN, NF1			Robbins pathology	Pathology	45 min
9.30-10.15	15					Orthopedics	45 min
Hospital work				10.30-12.00			
12.10—2.00		PRACTICAL		BATCH A: Squamous cell carcinoma Batch B: Pharmacology Batch C: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

DAY 6				17-09-2025 (Wednesday)			
8.00-8.45	16.	Squamous cell carcinoma of Larynx				ENT	45 min
8.45-9.30	17	Diagnosis , staging and surgical intervention				Surgery	45 min
9.30-10.15	18	Warburg effect, evasion of apoptosis , limitless replicative potential of neoplastic cells				Pathology	45 min
Hospital work				10.30-12.00			
12.10-2.00		PRACTICAL		Batch B: Squamous cell carcinoma Batch C: Pharmacology Batch A: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 7				18-09-24 (Thursday)			
8.00-8.45	19.				Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30	20.	Evasion of host defense : Role of tumor antigens				Pathology	45 min
9.30-10.15	21.	Introduction to chemotherapy and Radiotherapy , overview of tumor lysis syndrome				Oncology	45 min
Hospital work				10.30-12.00			
12.10 — 2.00		PRACTICAL		Batch C: Squamous cell carcinoma Batch A: Pharmacology Batch B: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 8				19-09-2025 (Friday)			
8.00-8.45	22.	Genomic instability, cancer enabling inflammation				Pathology	45 min
8.45-9.30	23.	Breaking the bad news				Behavioural sciences	
9.30-10.15	24.	Carcinogens : Chemical , radiation			Robbins Pathology	Pathology	45 min

10.30— 12.00		Practical		Batch A: Basal cell carcinoma Batch B: Pharmacology Batch C: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 9 20-09-2025(Saturday)							
8.00-8.45	25.	Clinical aspects of neoplasia : Cancer Cachexia , Para neoplastic syndrome			Basic and clinical pharmacology 12 th edition katzung	Medicine	45 min
8.45-9.30	26.	Microbial carcinogens		EBV, HEP-B VIRUS		Pathology	45 min
9.30-10.15	27.					Pharmacology	45 Min
10.15-11.00						EYE	
11.00-11.45						ENT	
11.45-12.30						Pathology	
12.45— 02.30pm		Practical		Batch B: Basal cell carcinoma Batch C: Pharmacology Batch A: Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

All lectures will be conducted in Forensic Medicine lectures hall.

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TIME TABLE OF 3RD YEAR MBBS (NEOPLASIA), 2025

NEOPLASIA MODULE								
Date	Day	Time (08:00-08:45am)	Time (08:45-09:30am)	Time (09:30-10:15am)	Hospital Works			Practicals (12:10-02:00)
11-09-25	Thursday	Pathology	Medicine	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A:Pharmacology B: Forensic medicine
12-09-25	Friday	Pharmacology	Pathology	Community Medicine	Respective Department Practical (10:30-12:00pm)			A: Pathology B:Pharmacology C: Forensic medicine
13-09-2025 (Supplementary 1st Modular Assessment of 3rd year only for supply students (10:00am to 12:00noon Topics: General Microbiology, Inflammation, Cell Injury & Repair and Genetics								
15-09-25	Monday	Medicine	Pathology	Pharmacology	Hospital work 10.30-12.00pm			C: Pathology A:Pharmacology B: Forensic medicine
16-09-25	Tuesday	Surgery	Pathology	Orthopedics	Hospital work 10.30-12.00pm			A: Pathology B:Pharmacology C: Forensic medicine
17-09-25	Wednesday	ENT	Surgery	Pathology	Hospital work (10.30-12.00pm)			B: Pathology C:Pharmacology A: Forensic medicine
18-09-25	Thursday	Pharmacology	Pathology	Oncology	Hospital work (10.30-12.00pm)			C: Pathology A:Pharmacology B: Forensic medicine
19-09-25	Friday	Pathology	Behavioural Sciences	Pathology	Respective Department Practical (10:30-12:00pm)			A: Pathology B:Pharmacology C: Forensic medicine
20-09-25	Saturday	Medicine	Pathology	Pharmacology	EYE 10:15-11:00am	ENT 11:00-11:45am	Pathology 11:45-12:30pm	B: Pathology C:Pharmacology A: Forensic medicine (12:45-02:30PM)

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TABLE OF SPECIFICATIONS (TOS)FOR 3RD PROFESSIONAL EXAMINATION

GENERAL PATHOLOGY AND MICROBIOLOGY

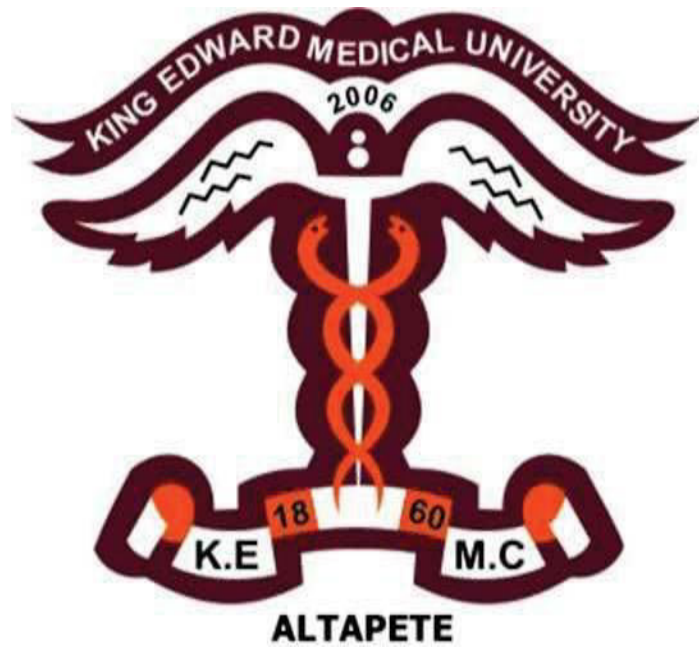
Total marks: 135

(MCQs Marks: 45 & SEQs Marks: 90)

Sr. No.	Topics	MCQs (30) 1.5 Marks each	SEQs (10) 09 Marks each
01	Cell & cell cycle	02	01
02	Cell injury & cellular adaptations	02	
03	Genetics	02	01
04	Healing & Repair	01	
05	General Bacteriology	02	01
06	Special Bacteriology	05	02
07	Virology	02	01
08	Parasitology	02	
09	Mycology	02	
10	Hemodynamics	02	01
11	Inflammation	02	01
12	Neoplasia	02	01
13	Immunity	02	01
14	Diseases of infancy & childhood	01	
15	Environmental & Nutritional diseases	01	

Recommended Books:

- **Pathological Basis of Disease: Robins & Cortan (09th /updated edition)**
- **Review of Medical Microbiology & Immunology by Warren Levinson (16th / updated edition)**



FOURTH YEAR MBBS

CURRICULUM 2025-26

VISION STATEMENT

The vision of King Edward Medical University is to be a renowned national and world-class academic institution, maintaining a leading role in medical education, innovative research, and the provision of international-standard healthcare services.

MISSION STATEMENT

King Edward Medical University will prepare health professionals in accordance with the highest professional standards to practice evidence-based medicine, maintain international quality of patient-centered care in the healthcare delivery system, and produce research scholars demonstrating excellence in knowledge, skills, and ethical values, empowered with community-oriented, self-directed learning and professional development.

**TABLE OF SPECIFICATIONS (TOS) FOR 3RD PROFESSIONAL EXAMINATION (4th Year)
SPECIAL PATHOLOGY**

Total marks: 135

(MCQs Marks: 45 & SEQs Marks: 90)

Sr.No.	Topics	MCQs (30) 1.5 Marks each)	SEQs (10) 09 Marks each
01	Heart	02	01
02	Blood Vessels	02	
03	Hematology (Diseases of Blood cells/RBCS/Thymus/Spleen/Lymph Node)	02	01
04	Lung	02	
05	Head & Neck	02	01
06	GIT	02	01
07	Liver & Biliary Tract	02	
08	Pancreas	02	
09	Kidney & Bladder	02	01
10	Male Genital Tract	02	01
11	Female Genital Tract	02	
12	Breast	02	01
13	Skin	01	
14	Endocrine	02	
15	CNS/Peripheral Nerves/Eye	01	01
16	Bones, Joint, Soft Tissue	02	01

Recommended Books:

- **Pathological Basis of Disease: Robins & Cortan (10th /updated edition)**



HAEMATOLOGY MODULE OF 4TH YEAR MBBS (SESSION 2024-25)

DURATION: 29 DAYS

TIME	COURSE CONTENT		PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
02-01-2025 Thursday							
08.00-8.45	1	Evaluating Patients with orbital lesions				EYE	45 mins
08.45-9.30	2	Basic concepts of Community Medicine and Public Health				Community medicine	45 min
09.30-10.15	3	Normal haematopoiesis & Overview of various Lab investigations		- Students should have understanding of normal haematopoeitic development - Should be familiar with the terms of leucopenia, leukocytosis, lymphocytosis, lymphopenia and their causes. - A clear understanding of basic hematological investigations	Robbins Pathology	Pathology	45 min
Hospital work				10:30 a.m. to 2:30 p.m.			
03-01-2025 Friday							
08.00-8.45	4.					Anaesthesia	45 mins
08.45-9.30	5.	Anemia in Pregnancy				Gynaecology	45 min
9.30-0.15	6.	Anemias: their classification, anemias of blood loss, hemolytic anemias due to membrane disorders		Students should be able to define & classify anemias, know their underlying pathology and have clear concept of anemias due to membrane disorders	Robbins Pathology	Pathology	45 min
Hospital work				10:30 a.m. to 12:00 p.m.			

04-01-2025 Saturday							
8.00-8.45	7.	Surgical management of condition arising from hemolytic anemias				Surgery	45 min
8.45-9.30	8.	Inherited Hemolytic Anemias		• Red cell membrane defect • Hb. Abnormalities • Thalassemia • Sickle cell syndrome • Metabolic disorders (G6PD deficiency)		Paediatric Medicine	45 min
9.30-10.15	9.	Hemolytic anemias due to enzymopathies & haemoglobinopathies		Student should have a clear understanding of pathogenesis, clinical presentation and lab diagnosis of G6PD and sickle cell disease.	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
06-01-2025 Monday							
8.00-8.45	10.	Basic concepts of Community Medicine and Public Health				Community Medicine	45 min
8.45-9.30	11.	Thalassemia		Genetic counseling and special care of patient		Gynecology	45 min
9.30-10.15	12.	Thallasemias		Student should have a clear understanding of pathogenesis, clinical presentation and lab diagnosis of Beta and alpha thalassemia .	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							

07-01-2025 Tuesday							
8.00-8.45	13.	PNH and immune haemolytic anaemias		Students should be able to differentiate between different types of immune haemolytic anaemias and should have a clear understanding of their pathogenesis, clinical presentation and lab diagnosis	Robbins Pathology	Pathology	45 min
8.45-9.30	14	Acquired Hemolytic Anemias		• Autoimmune • Drug induced • Alloimmune • Non immune • Mechanical		Paediatric Medicine	45 min
9.30-10.15	15	Medical indications of splenectomy				surgery	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
08-01-2025 Wednesday							
8.00-8.45	16.	Vertigo				ENT	45 min
8.45-9.30	17.	Orbital Lesions				Eye	45 min
9.30-10.15	18.	Anaemias of diminished erythropoiesis – Iron deficiency anaemia		Student should have a clear understanding of pathogenesis, clinical presentation and lab diagnosis of iron deficiency anemia	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
09-01-2025 Thursday							
8.00-8.45	20.	Basic concepts of Community Medicine and Public Health				Community Medicine	45 min
8.45-9.30	21.	Deficiency Anemias		• Iron deficiency		Medicine	45 min

		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		- Vit.B 12 - Folic acid			
9.30-10.15	22.	Megaloblastic anaemia		Student should have a clear concept of pathogenesis , clinical presentation and lab diagnosis of megaloblastic anaemia	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
10-01-2025 Friday							
8.00-8.45	23.	Fluid & electrolyte abnormalities and interpretation of ABG'S in surgical patients				Surgery	45 min
8.45-9.30	24.	Aplastic anaemia, Pure red cell aplasia and anemia of chronic disease		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of Aplastic anaemia, Pure red cell aplasia and anemia of chronic disease	Robbins Pathology	Pathology	45 min
9.30-10.15	25.	Anemias due to Bone marrow failure (Etiology, Clinical features ,Lab diagnosis & Management)		❖ Aplastic anemia Bone marrow transplantation Etiology, Clinical features ,Lab diagnosis & Management		Oncology	
Hospital work 10:30 to 12:00 p.m.							
11-01-2025 Saturday							
8.00-8.45	26.	Personality Development & impact on Patient interaction			Integrating Behavioral Sciences in Healthcare (Asma Humayun) Brig Mowadat Rana book on behavioral sciences	Behavioral sciences	45 min
8.45-9.30	27					Gynecology	45 mins

9.30-10.15	28.	Acute myeloid leukemia,		Students should be able to classify acute myeloid leukemia, should have a clear concept of their pathogenesis and related investigations.	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
13-01-2025 Monday							
8.00-8.45	29.	Otosclerosis				ENT	45 min
8.45-9.30	30.	Health & Disease				Community medicine	45 min
9.30-10.15	31.	Acute lymphoid leukemia		Students should be able to classify acute lymphoid leukemia, should have a clear concept of their pathogenesis and related investigations	Robbins Pathology	Pathology	45 min
Hospital work 10:30 to 2:30 p.m.							
15-01-2025 Wednesday							
8.00-8.45	32.	Surgical ethics		To understand: • The importance of autonomy in good surgical practice • The moral and legal boundaries and practical difficulties of informed consent • Good practice in making decisions about the withdrawal of life-sustaining treatment • The importance and boundaries of confidentiality in surgical practice • The importance of appropriate regulation in surgical research • The importance of rigorous training and maintenance of good practice standards	Surgery	Surgery	45 min
8.45-9.30	33.	Retinoblastoma				Eye	45 min

9.30-10.15	34.	Lymphoid neoplasms . Their classification , B cell NHL (1)		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of B cell NHL and special emphasis on CLL	Robbins Pathology	Pathology	45 min
Hospital work 10:30 to 2:30 p.m.							
16-01-2025 Thursday							
8.00-8.45	35.	Health & Disease				Community medicine	45 min
8.45-9.30	35.	B and T cell NHL (2)		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of B and T cell NHL	Robbins Pathology	Pathology (Dr. Sobia)	45 min
9.30-10.15	36.	Lymphoproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		Medicine	45 min
Hospital work 10:30 to 2:30 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
17-01-2025 Friday							
8.00-8.45	37.	Hodgkin's lymphoma		Should be familiar with its type, clinical and morphological features.	Robbins Pathology	Pathology	45 min
		Lymphoproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		Medicine	45 min
8.45-9.30	38.	Management of Lymphoproliferative disorders		Management of Lymphoproliferative diseases including adverse effects & complications of Chemotherapy		Oncology	45 min
Hospital work 10:30 to 12:00 p.m.							
18-01-2025 Saturday							
08:00 – 8:45	39.	Health and Disease				Community Medicine	
08:45 – 9:30	40	Multiple Myeloma				Pathology	

9:30 – 10:15	41	Multiple myeloma and Gamma globulin pathis				Medicine	
Hospital work 10:30 to 02:30 p.m.							
20-01-2025 Monday							
8.00-8.45	42.	Critically ill surgical patient				Surgery	45 min
8.45-9.30	43.	Glomus tumor				ENT	45 min
9.30-10.15	44.	Myeloproliferative disorders- Chronic myeloid leukemia Multiple myeloma		Students should be able to classify various myeloproliferative disorders, should be able to discuss in detail chronic myeloid leukaemia	Robbins Pathology	Pathology (Dr. Arsala)	45 min
Hospital work 10:30 to 2:30 p.m.							
21-01-2025 Tuesday							
8.00-8.45	45.	Myeloproliferative disorders-polycythemia Vera, Essential thrombocythemia and myelofibrosis		students should be able to describe various myeloproliferative disorders and their lab diagnosis	Robbins Pathology	Pathology	45 min
8.45-9.30	46.	Myeloproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		MEDICINE	
9.30-10.15	47.	Management of Myeloproliferative Disorders		❖ Etiology, Clinical features ,Lab diagnosis & Management		Oncology	45 min
Hospital work 10:30 to 12:00 a.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12: 00 to 02:30 p.m.
22-01-2025 Wednesday							
8.00 – 8.45	48	Health & Disease				Community Medicine	45 min
8.45 – 9.30	49.	Myelodysplastic syndrome		Student should have a clear concept of myelodysplasia and how to investigate it.	Robbins Pathology	Pathology (Dr. Rafeeda)	45 min
9.30 – 10.15	50.	Myelodysplasia& Stem cell Transplantation		Etiology, Clinical features ,Lab diagnosis & Management		Oncology	45 min

HOSPITAL WORK 10.30-2.30 p.m.							
23-01-2025 Thursday							
8.00 – 8.45	51.	Immunology				Community medicine	45 min
8.45 – 9.30	52.	Overview of Bleeding diathesis, its investigation and interpretation		Students should be familiar with various bleeding diathesis and should be able to interpret the findings of related investigations	Robbins Pathology	Pathology	45 min
9.30 – 10.15	53.	Principles of controlling hemorrhage and different tools of trade				Surgery	45 min
HOSPITAL WORK 10.30-12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12: 00 to 02:30 p.m.
24-01-2025 Friday							
8.00-8.45	54.	Medicines in Ophthalmology				Eye	
8.45-9.30	55.	Topic not suggested by relevant Department				Anaesthesia	
9.30-10.15	56.	Thrombocytopenia		Students should be able to classify and investigate various types of thrombocytopenias	Robbins Pathology	Pathology	45 min
Hospital work				10:30 to 12:00 p.m.			
25-01-2025 Saturday							
8.00-8.45	57.	Topic not suggested by relevant Department		•		Behavioral Sciences	45 min
8.45-9.30	58.	Inherited and acquired platelet defects.		Students should be able to classify and investigate various types of platelet functional disorders especially Bernard Soulier and Glanzman 's thrombocythemia	Robbins Pathology	Pathology	
9.30-10.15	59.	Platelet disorders		- ITP - Platelet functional disorders		Paediatric MEDICINE	
Hospital work				10:30 to 02:30 p.m.			

27-01-2025 Monday							
8.00-8.45	66.	Disseminated intra vascular coagulation.		Students should have a clear concept of pathogenesis, clinical presentation and lab investigation of disseminated intra vascular coagulation	Robbins Pathology	Pathology	45 min
8.45-9.30	67.	DIC		Etiology, clinical manifestations, lab workup, differential diagnosis		Medicine	45 min
9.30-10.15	68.	Management of a surgical patient with coagulation disorders & Bleeding disorders				Surgery	45 min
Hospital work				10:30 to 02:30 p.m.			
28-01-2024 Tuesday							
8.00-8.45	69.	Thrombophilia		Pathogenesis		Pathology	45 min
8.45-9.30	70.	Thrombosis , Thrombophilia		(Etiology, Clinical manifestations, Lab workup, Differential diagnosis)		MEDICINE	45 min
9.30-10.15	71.	Stroke		Epidemiology, Risk factors, Etiology & Pathogenesis of Ischemic stroke		Neurology	45 min
Hospital work				10:30 to 12:00 p.m.			
		PRACTICAL		Pathology	Community Medicine	Respective departments	12: 00 to 02:30 p.m.
29-01-2024 Wednesday							
8.00-8.45	72.	Blood grouping and Blood products and components		Students should develop comprehensive understanding of various blood groups, how to make various components of blood and its products.	Robbins Pathology	Pathology	45 min
8.45-9.30	73.	Blood products used in different hematological conditions				surgery	45 min
9.30-10.15	74.	immunology				Community Medicine	45 min
Hospital work				10:30 to 2:30 p.m.			

30-01-2025 Thursday							
88.00-8.45	75.	Vascular malformations				Plastic surgery	45 mins
8.45 – 9.30	76.	Stroke		Investigations and management		Neurology	45 mins
9.30-10.15	77	Blood transfusion reactions (1)		Students should be able to describe in detail various blood transfusion reactions	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12: 00 to 02:30 p.m.
31-01-2025 Friday							
8.00 - 8.45	78	Topics not suggested by relevant Department				Community Medicine	45 mins
8.45 – 9.30	79	Topics not suggested by relevant Department				Anaesthesia	45 mins
9.30 – 10.30	80	Blood transfusion reactions (2)		Students should be able to describe in detail various blood transfusion reactions	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 12:00 p.m.							
01-02-2025 Saturday							
8.00-8.45	81.	Ocular Side effect of systemic medications				Eye	45 min
8.45-9.30	82.	Von willibrand Disease				Pathology	
9.30-10.15	83.	Immunology				Community Medicine	45 min
Hospital work 10.30-02.30 p.m.							

- 1) All lectures will be conducted in Maqbool Ahmad Block KEMU.
- 2) To check the contents of these lectures, kindly open the email inbox (Request for Departmental Focal Persons & H.O.D's)

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HAEMATOLOGY MODULE OF 4TH YEAR MBBS (SESSION 2024-25)

DURATION: 02-01-2025 to 01-02-2025

DURATION

27 DAYS

CONTACT HOURS: 43

Lectures 85 = + Practical's + Hospital stay = ----

CREDIT HOURS: 03

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of-.. The interrelated clinical aspects of Medicine, Surgery, Eye, Ear, Nose and Throat and Gynecological problems will also be covered. By the end of the module, the students should be able to:

1. Describe:

2. Discuss the Pathological and all clinical aspects of:

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
02-01-2025 Thursday							
08.00-8.45	1	Evaluating Patients with orbital lesions				EYE	45 min
08.45-9.30	2	Basic concepts of Community Medicine and Public Health				Community medicine	45 min

09.30-10.15	3	Normal haematopoiesis & Overview of various Lab investigations		- Students should have understanding of normal haematopoeitic development - Should be familiar with the terms of leucopenia, leukocytosis, lymphocytosis, lymphopenia and their causes. - A clear understanding of basic hematological investigations	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
03-01-2025 Friday							
08.00-8.45	4.					Anaesthesia	45 mins
08.45-9.30	5.	Anemia in Pregnancy				Gynaecology	45 min
9.30-0.15	6.	Anemias: their classification, anemias of blood loss, hemolytic anemias due to membrane disorders		Students should be able to define & classify anemias, know their underlying pathology and have clear concept of anemias due to membrane disorders	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 12:00 p.m.							
04-01-2025 Saturday							
8.00-8.45	7.	Surgical management of condition arising from hemolytic anemias				Surgery	45 min
8.45-9.30	8.	Inherited Hemolytic Anemias		- Red cell membrane defect - Hb. Abnormalities - Thalassemia - Sickle cell syndrome - Metabolic disorders (G6PD deficiency)		Paediatric Medicine	45 min
9.30-10.15	9.	Hemolytic anemias due to enzymopathies & haemoglobinopathies		Student should have a clear understanding of pathogenesis, clinical presentation and lab diagnosis of G6PD and sickle cell disease.	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							

06-01-2025 Monday							
8.00-8.45	10.	Basic concepts of Community Medicine and Public Health				Community Medicine	45 min
8.45-9.30	11.	Thalassemia		Genetic counseling and special care of patient		Gynecology	45 min
9.30-10.15	12.	Thalassemias		Student should have a clear understanding of pathogenesis, clinical presentation and lab diagnosis of Beta and alpha thalassemia .	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
07-01-2025 Tuesday							
8.00-8.45	13.	Medical indications of splenectomy				surgery	45 min
8.45-9.30	14	Acquired Hemolytic Anemias		• Autoimmune • Drug induced • Alloimmune • Non immune • Mechanical		Paediatric Medicine	45 min
9.30-10.15	15.	PNH and immune haemolytic anaemias		Students should be able to differentiate between different types of immune haemolytic anaemias and should have a clear understanding of their pathogenesis , clinical presentation and lab diagnosis	Robbins Pathology	Pathology	
Hospital work 10:30 a.m. to 2:30 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
08-01-2025 Wednesday							
8.00-8.45	16.	Vertigo				ENT	45 min
8.45-9.30	17.	Orbital Lesions				Eye	45 min

9.30-10.15	18.	Anaemias of diminished erythropoiesis – Iron deficiency anaemia		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of iron deficiency anemia	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
09-01-2025 Thursday							
8.00-8.45	20.	Basic concepts of Community Medicine and Public Health				Community Medicine	45 min
8.45-9.30	21.	Deficiency Anemias (Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		- Iron deficiency - Vit.B 12 - Folic acid		Medicine	45 min
9.30-10.15	22.	Megaloblastic anaemia		Student should have a clear concept of pathogenesis , clinical presentation and lab diagnosis of megaloblastic anaemia	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
10-01-2025 Friday							
8.00-8.45	23.	Fluid & electrolyte abnormalities and interpretation of ABG'S in surgical patients				Surgery	45 min
8.45-9.30	24.	Anemias due to Bone marrow failure (Etiology, Clinical features ,Lab diagnosis & Management)		❖ Aplastic anemia Bone marrow transplantation Etiology, Clinical features ,Lab diagnosis & Management		Oncology	45 min
9.30-10.15	25.	Aplastic anaemia, Pure red cell aplasia and anemia of chronic disease		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of Aplastic anaemia, Pure red cell aplasia and anemia of chronic disease	Robbins Pathology	Pathology	45 min
Hospital work 10:30 to 12:00 p.m.							
11-01-2025 Saturday							
8.00-8.45	26.	Personality Development & impact on Patient interaction			Integrating Behavioral Sciences in	Behavioral sciences	45 min

					Healthcare (AsmaHumayun) Brig MowadatRana book on behavioral sciences		
8.45-9.30	27					Gynecology	45 mins
9.30-10.15	28.	Acute myeloid leukemia,		Students should be able to classify acute myeloid leukemia, should have a clear concept of their pathogenesis and related investigations.	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							
13-01-2025 Monday							
8.00-8.45	29.	Otosclerosis				ENT	45 min
8.45-9.30	30.	Health & Disease				Community medicine	45 min
9.30-10.15	31.	Acute lymphoid leukemia		Students should be able to classify acute lymphoid leukemia, should have a clear concept of their pathogenesis and related investigations	Robbins Pathology	Pathology	45 min
Hospital work 10:30 to 2:30 p.m.							
14-01-2025 Tuesday							
8.00-8.45	32.	Surgical ethics		To understand: • The importance of autonomy in good surgical practice • The moral and legal boundaries and practical difficulties of informed consent • Good practice in making decisions about the withdrawal of life-sustaining treatment • The importance and boundaries of confidentiality in surgical practice • The importance of appropriate regulation in surgical research	Surgery	Surgery	45 min

				• The importance of rigorous training and maintenance of good practice standards			
8.45-9.30	33.	Retinoblastoma				Eye	45 min
9.30-10.15	34.	Lymphoid neoplasms. Their classification , B cell NHL (1)		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of B cell NHL and special emphasis on CLL	Robbins Pathology	Pathology	45 min
Hospital work 10:30 to 12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
15-01-2025 Wednesday							
8.00-8.45	35.	Health & Disease				Community medicine	45 min
8.45-9.30	35.	B and T cell NHL (2)		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of B and T cell NHL	Robbins Pathology	Pathology	45 min
9.30-10.15	36.	Lymphoproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		Medicine	45 min
Hospital work 10:30 to 2:30 p.m.							
16-01-2025 Thursday							
8.00-8.45	37.	Hodgkin's lymphoma		Should be familiar with its type, clinical and morphological features.	Robbins Pathology	Pathology	45 min
		Lymphoproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		Medicine	45 min
8.45-9.30	38.	Management of Lymphoproliferative disorders		Management of Lymphoproliferative diseases including adverse effects & complications of Chemotherapy		Oncology	45 min
Hospital work 10:30 to 12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM

Hospital work 10:30 to 12:00 p.m.							
17-01-2025 Friday							
08:00 – 8:45	39.	Health and Disease				Community Medicine	
08:45 – 9:30	40	Multiple Myeloma				Pathology	
9:30 – 10:15	41	Multiple myeloma and Gamma globulin pathis				Medicine	
Hospital work 10:30 to 12:30 p.m.							
18-01-2025 Saturday							
8.00-8.45	42.	Critically ill surgical patient				Surgery	45 min
8.45-9.30	43.	Glomus tumor				ENT	45 min
9.30-10.15	44.	Myeloproliferative disorders- Chronic myeloid leukemia Multiple myeloma		Students should be able to classify various myeloproliferative disorders, should be able to discuss in detail chronic myeloid leukaemia	Robbins Pathology	Pathology	45 min
Hospital work 10:30 to 2:30 p.m.							
20-01-2025 Monday							
8.00-8.45	45.	Myeloproliferative disorders-polycythemia Vera, Essential thrombocythemia and myelofibrosis		students should be able to describe various myeloproliferative disorders and their lab diagnosis	Robbins Pathology	Pathology	45 min
8.45-9.30	46.	Myeloproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		MEDICINE	
9.30-10.15	47.	Management of Myeloproliferative Disorders		❖ Etiology, Clinical features ,Lab diagnosis & Management		Oncology	45 min
Hospital work 10:30 to 02:30 p.m.							
21-01-2025 Tuesday							
8.00 – 8.45	48	Health & Disease				Community Medicine	45 min
8.45 – 9.30	49.	Myelodysplastic syndrome		Student should have a clear concept of myelodysplasia and how to investigate it.	Robbins Pathology	Pathology	45 min

9.30 – 10.15	50.	Myelodysplasia& Stem cell Transplantation		Etiology, Clinical features ,Lab diagnosis & Management		Oncology	45 min
HOSPITAL WORK 10.30-12.00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
22-01-2025 Wednesday							
8.00 – 8.45	51	Immunology				Community medicine	45 min
8.45 9.30	52.	Overview of Bleeding diathesis, its investigation and interpretation		Students should be familiar with various bleeding diathesis and should be able to interpret the findings of related investigations	Robbins Pathology	Pathology	45 min
9.30 – 10.15	53.	Principles of controlling hemorrhage and different tools of trade				Surgery	45 min
HOSPITAL WORK 10.30-02:30 p.m.							
23-01-2025 Thursday							
8.00-8.45	54.	Medicines in Ophthalmology				Eye	
8.45-9.30	55.	Topic not suggested by relevant Department				Anaesthesia	
9.30-10.15	56.	Thrombocytopenia		Students should be able to classify and investigate various types of thrombocytopenias	Robbins Pathology	Pathology	45 min
Hospital work 10:30 to 12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
Hospital work 10:30 to 12:00 p.m.							
24-01-2025 Friday							
8.00-8.45	57.	Topic not suggested by relevant Department				Behavioral Sciences	45 min

8.45-9.30	58.	Inherited and acquired platelet defects.		Students should be able to classify and investigate various types of platelet functional disorders especially Bernard Soulier and Glanzman 's thrombocythemia	Robbins Pathology	Pathology	
9.30-10.15	59.	Platelet disorders		- ITP - Platelet functional disorders		Paediatric MEDICINE	
Hospital work 10:30 to 02:30 p.m.							
25-01-2025 Saturday							
8.00-8.45	66.	Disseminated intra vascular coagulation.		Students should have a clear concept of pathogenesis, clinical presentation and lab investigation of disseminated intra vascular coagulation	Robbins Pathology	Pathology	45 min
8.45-9.30	67.	DIC		Etiology, clinical manifestations, lab work up, differential diagnosis		Medicine	45 min
9.30-10.15	68.	Management of a surgical patient with coagulation disorders & Bleeding disorders				Surgery	45 min
Hospital work 10:30 to 02:30 p.m.							
27-01-2025 Monday							
8.00-8.45	69.	Thrombophilia/ Idiopathic thrombocytopenic purpura		Pathogenesis		Pathology	45 min
8.45-9.30	70.	Thrombosis , Thrombophilia		(Etiology, Clinical manifestations, Lab workup, Differential diagnosis)		MEDICINE	45 min
9.30-10.15	71.	Stroke		Epidemiology, Risk factors, Etiology & Pathogenesis of Ischemic stroke		Neurology	45 min
Hospital work 10:30 to 12:00 p.m.							
28-01-2025 Tuesday							
8.00-8.45	72.	Blood grouping and Blood products and components		Students should develop comprehensive understanding of various blood groups, how to make various components of blood and its products.	Robbins Pathology	Pathology	45 min

8.45-9.30	73.	Blood products used in different hematological conditions				surgery	45 min
9.30-10.15	74.	immunology				Community Medicine	45 min
Hospital work 10:30 to 12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
Hospital work 10:30 to 2:30 p.m.							
29-01-2025 Wednesday							
88.00- 8.45	75.	Vascular malformations				Plastic surgery	45 mins
8.45 – 9.30	76.	Stroke		Investigations and management		Neurology	45 mins
9.30-10.15	77	Blood transfusion reactions (1)		Students should be able to describe in detail various blood transfusion reactions	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 02:30 p.m.							
30-01-2025 Friday Thursday							
8.00 - 8.45	78	Topics not suggested by relevant Department				Community Medicine	45 mins
8.45 – 9.30	79	Topics not suggested by relevant Department				Anesthesia	45 min
9.30 – 10.30	80	Blood transfusion reactions (2)		Students should be able to describe in detail various blood transfusion reactions	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
31-01-2025 Friday							
8.00-8.45	81.	Ocular Side effect of systemic medications				Eye	45 min
8.45-9.30	82.	Von willibrand Disease				Pathology	
9.30-10.15	83.	Immunology				Community Medicine	45 min
Hospital work 10:30 a.m. to 2:30 p.m.							

01-02-2025 Saturday							
8.00-8.45	84	Revision				Community Medicine	45 min
8.45-9.30	85	Revision				Behavioral Sciences	45 min
9.30-10.15	86	Revision				Pathology	45 in

All lectures will be conducted in Maqbool Ahmad Block KEMU.

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1ST INTERMODULE

DURATION **15 DAYS (14-01-2025 to 30-01-2025)**

CONTACT HOURS Lectures =44 hours + Practical's= 44.50 Hours + Hospital stay = 20.5 HOURS

CREDIT HOURS 4

DAY 1 14-01-2025 (TUESDAY)							
8.00 -8.45am	1.	Human Genome		he students should learn about the histone organization, Non coding DNA and RNA and their types	Robbins Pathology	Pathology	45 min
8.45-9.30am	2.	Symptoms of Respiratory system		CASE SCENARIOS: Dyspnoe Cough + Hemoptysis Pleural effusion Pneumonia		Medicine	45 min
9.30-10.15am	3.	Shock				Surgery	45 min
Hospital work 10:30am - 12.00pm							
12.10-02.00pm		PRACTICAL		Batch A :Small group discussions Batch B: Pharmacology Batch C : Medico legal/ autopsy/analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 2 15-01-2025 (WEDNESDAY)							
8.00-8.45am	4.	Pharmacodynamics , receptor antagonism, dose response curve			Basic and clinical pharmacology	Pharmacology	45 min
8.45-9.30am	5.	Cellular housekeeping		The students should know about different cellular constituents and their functions	Robbins pathology	Pathology	45 min
9.30-10.15am	6.	Law courts & courts procedure, medical man as an expert witness				Forensic Medicine	45 min

Hospital work 10:30am - 12.00pm							
12.10-2.00pm		PRACTICAL		Batch B: Small group discussions Batch C: Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 3 16-01-2025 (THURSDAY)							
8.00-8.45am	7	Drug interactions			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30am	8	Gram negative bacteria		E.COLI Pseudomonas klebsiella		ENT	45 min
9.30-10.15am	9	Cell signaling pathways and activation		Signaling pathways, their activation, cell-matrix interactions		Pathology	45 min
Hospital work 10:30am - 12.00pm							
12.10 -02.00pm		PRACTICAL		Batch C: Small group discussions Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 4 17-01-2025(FRIDAY)							
8.00-8.45 am	10.	Medical certification & reporting certification of death, birth,illness,fitness				Forensic medicine	45 min
8.45-9.30am	11.	Factors affecting doses & action of drugs				Pharmacology	45 min
9.30-10.15am	12.	Cellular responses to injury &Adaptations of cellular growth and differentiation		Students should know the difference between Hypertrophy, Hyperplasia,	Robbins Pathology	Pathology	45 min
10.30-12.00pm		Practical		Batch A: Small group discussions Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 5 18-01-2025 (SATURDAY)							
8.00-8.45am	13.	Tissue diagnosis				Surgery	45 min
8.45-9.30am	14.	Common infections in ear, nose & throat		MTB Corneybacteriumdiphtheriae		ENT	45 min

9.30-10.15am	15.	Symptoms of CVS		CASE SCENARIOS: Chest pain (angina, MI) Cardiac failure DVT + atherosclerosis		Medicine	45 min
10:15-11:00am	16.			Forensic Medicine			45 min
11:00-11:45am	17.			Pathology			45 min
11:45-12:30am	18.			Pharmacology			45 min
12.45—2.30pm		Practical		Batch B: Small group discussions Batch C: Pharmacology Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 6 20-01-2025 (MONDAY)							
8.00-8.45am	19.	Symptoms of Gastroenterology		CASE SCENARIOS: Pain abdomen Diarrhea (acute, chronic) Upper GI bleed		Medicine	
8.45-9.30am	20.					Orthopedics	45 min
9.30-10.15am	21.	Cell injury & cell disease		Necrosis, mechanism of cells injuries and clinic-pathological		Pathology	45 min
Hospital work 10:30am - 12.00pm							
12.10-2.00pm		Practical		Batch C : Small group discussions Batch A : Pharmacology Batch B : Medicolegal/autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 7 21-01-2025 (TUESDAY)							
8.00-8.45am	22.	Adaptations of cellular growth and differentiation		Atrophy and Metaplasia		Pathology	45 min
8.45-9.30am	23.	Drug dependence			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
9:30-10:15am	24.	Cell injury and Cell death		Necrosis, Mechanisms of cell injury and clinic pathological correlation		Pathology	45 min

Hospital work 10:30am - 12.00pm							
12.10-02.00pm		PRACTICAL		BATCH A: Small group discussions Pathology Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 8 22-01-2025 (WEDNESDAY)							
8.00-8.45am	25.	Adverse drug affects and drug allergies			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30am	26.	Importance of dying declaration and its recording				Forensic medicine	45 min
9.30-10.15am	27.	Cell injury		Reversible and irreversible injury and mechanisms	Robbins Pathology	Pathology	45 min
Hospital work 10:30am - 12.00pm							
12.10-2.00pm		PRACTICAL		Batch B : Small group discussions Batch C : Pharmacology Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 9 23-01-2025 (THURSDAY)							
8.00-8.45am	28.	Medicolegal systems				Forensic medicine	45 min
8.45-9.30am	29.	Pharmacogenetics & Bioassay			Basic and clinical pharmacology	Pharmacology	45 min
9.30-10.15am	30.	Morphological alterations in cell injury		CASEOUS, FIBRINOID, COAGULATIVE necrosis, Liquefactive necrosis, gangrene		Pathology	45 min
Hospital work 10:30am - 12.00pm							
12.10-2.00pm		PRACTICAL		Batch C : Small group discussions Pathology Batch A: Pharmacology Batch B : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

DAY 10 24-01-2025 (FRIDAY)							
8.00-8.45am	31.	Law in relation to mental health				Forensic medicine	45 min
8.45-9.30am	32.	Introduction to ANS			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45min
9.30-10.15am	33.	APOPTOSIS		MECHANISM		Pathology	45 min
10.30-12.00pm		PRACTICAL		Batch A: Small group discussions Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 11 25-01-2025 (SATURDAY)							
8.00-8.45am	34.	Sterilization				Surgery	45 min
8.45-9.30am	35.	Intracellular accumulations		CALCIFICATION, PIGMENTATION	Robbins Pathology	Pathology	45 min
9.30-10.15am	36.	Cholinergic receptors			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
10:15-11:00am	37.					Pharmacology	45 min
11:00-11:45am	38					Forensic Medicine	45 min
11:45-12:30pm	39.					EYE	45 min
12.45-2.30pm		Practical		Batch B: Small group discussions Batch C: Pharmacology practical Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 12 27-01-2025 (MONDAY)							
8.00-8.45am	40.	PMDC;R IGHTS & Obligations				Forensic medicine	45 min
8.45-9.30am	41.	Genes and human diseases				Pathology	45 min
9.30-10.15am	42.	Blood transfusion				surgery	45 min

Hospital work 10:30am - 12.00pm							
12.10—2.00pm		PRACTICAL		Batch C: Small group discussions Batch A : Pharmacology practical Batch B : Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 13 28-01-2025 (TUESDAY)							
8.00-8.45aM	43.	Professional misconduct, professional confidentiality and exceptions				Forensic Medicine	45 min
8.45-9.30am	44.	Skeletal muscle relaxants				Pharmacology	45 min
9.30-10.15am	45.	Mendelian disorders & Chromosomal disorders				Pathology	45 min
Hospital work 10:30am - 12.00pm							
12.10- 2.00pm		PRACTICAL		Batch A: Small group discussions Batch B: Pharmacology practical Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 14 29-01-2024 (WEDNESDAY)							
8.00-8.45am	46.	Adrenoreceptors agonists			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	45 min
8.45-9.30am	47.	Single gene disorders & Multigenic disorders				PATHOLOGY	45 min
9.30-10.15am	48.	Medical negligence				Forensic medicine	45 min
Hospital work 10:30am - 12.00pm							
12.10-2.00pm		PRACTICAL		Batch B: Small group discussions Batch C: Pharmacology practical Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 15 30-01-2025 (THURSDAY)							
8.00-8.45am	49.	Diagnostic methods for genetic diseases		PCR, DNA sequencing	Robbins pathology	Pathology	
8.45-9.30am	50.	Adrenoreceptors antagonists & ergot alkaloids			Basic and clinical pharmacology 12 th edition katzung	Pharmacology	

9.30-10.15am	51.	Consent; importance in major n minor procedures				Forensic medicine	
Hospital work				10:30am - 12.00pm			
12.10-2.00pm		PRACTICAL		Batch C: Small group discussions Batch A: Pharmacology practical Batch B : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

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TIME TABLE OF 4TH YEAR MBBS (2024-25)

(Blood Vessels & Heart)

Starting Date 03-02-2025 to 15-02-2025

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
03-02-25	Mon	Pathology	Gynecology	Eye	Hospital Work 10:30a.m. – 02:30p.m.		
04-02-25	Tue	Pathology	Pathology	Medicine	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
05-02-25	Wed	Holiday					
06-02-25	Thu	Surgery	ENT	Neurosurgery			
07-02-25	Fri	Cardiac Surgery	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
08-02-25	Sat	Medicine	Community Medicine	Anesthesia	Hospital Work 10:30a.m. – 02:30p.m.		
10-02-25	Mon	Pathology	Medicine	Obstetrics	Hospital Work 10:30a.m. – 02:30p.m.		
11-02-25	Tue	Eye	Surgery	Anesthesia	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
12-02-25	Wed	Surgery	ENT	Neurosurgery	Hospital Work 10:30a.m. – 02:30p.m.		
13-02-25	Thu	ENT	Community Medicine	Eye	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
14-02-25	Fri	Pathology	Cardiology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
15-02-25	Sat	Pathology	Cardiology	Community Medicine			

All lectures will be conducted in Maqbool Ahmad Block of KEMU.

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TIME TABLE OF 4TH YEAR MBBS (2024-25)
(HAEMATOLOGY Module)
Starting Date 02-01-2025 to 01-02-2025

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
02-01-25	Thu	Eye	Community Medicine	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
03-01-25	Fri	Anesthesia	Gynecology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
04-01-25	Sat	Surgery	Pediatric Medicine	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
06-01-25	Mon	Community Medicine	Gynecology	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
07-01-25	Tue	Surgery	Pediatric Medicine	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
08-01-25	Wed	ENT	Eye	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
09-01-25	Thu	Community Medicine	Medicine	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
10-01-25	Fri	Surgery	Oncology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
11-01-25	Sat	Behavioral Sciences	Gynecology	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
13-01-25	Mon	ENT	Community Medicine	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
14-01-25	Tue	Surgery	Eye	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
15-01-25	Wed	Community Medicine	Pathology	Medicine	Hospital Work 10:30a.m. – 02:30p.m.		
16-01-25	Thu	Pathology	Medicine	Oncology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
17-01-25	Fri	Community Medicine	Pathology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
18-01-25	Sat	Surgery	ENT	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
20-01-25	Mon	Pathology	Medicine	Oncology	Hospital Work 10:30a.m. – 02:30p.m.		

21-01-25	Tue	Community Medicine	Pathology	Oncology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
22-01-25	wed	Community Medicine	Pathology	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
23-01-25	Thu	Eye	Anesthesia	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
24-01-25	Fri	Behavioral Sciences	Pathology	Pediatric Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
25-01-25	Sat	Pathology	Medicine	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
27-01-25	Mon	Pathology	Medicine	Neurology	Hospital Work 10:30a.m. – 02:30p.m.		
28-01-25	Tue	Pathology	Surgery	Community Medicine	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
29-01-25	Wed	Plastic Surgery	Neurology	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
30-01-25	Thu	Community Medicine	Anesthesia	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
31-01-25	Fri	Eye	Pathology	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
01-02-25	Sat	Community Medicine	Behavioral Sciences	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		

All lectures will be conducted in old auditorium of KEMU.

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KEMU 4TH YEAR MBBS 2025
1ST INTERMODULE (February, 2025)

DURATION 12 DAYS (17-02-2025 to 01-03-2025)

CONTACT HOURS Lectures 36 =16.5 hours (1) + Practical's + Hospital stay = 44 Hours (0.91)

CREDIT HOURS 2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

TOTAL LECTURES:

Community medicine:

Ophthalmology :

ENT:

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
Monday, 17-02-2025							
8:00-8:45	1.	Topic not specified yet			1.	ENT	45 min
8:45-9:30	2.	Cataract				Ophthalmology	45 min
9:30-10:15	3.	Biostatistics		Measures of Central tendency (Mean, mode, median)	2. Maxcy Public Health and Preventive Medicine 3. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
Hospital work 10.30-2.30							
Tuesday, 18-02-2025							
8:00-8:45	4.	CATARCT		1.	1.	Ophthalmology	45 min
8:45-9:30	5.	Biostatistics		2. Measure of dispersion (Range, Standard deviation, Standard error) 3. Normal curve	2. Maxcy Public Health and Preventive Medicine 3. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
9:30-10:15	6.	Topic not specified yet		•		ENT	45 min
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Community Medicine Lecture (12:00 – 12:45pm)	Practical 12.45—02.30pm
Wednesday, 19-02-2025							
8:00-8:45	7.	GLAUCOMA			1.	OPHTHALMOLOGY	45 min
8:45-9:30	8.	Biostatistics		1. Methods of data presentation (tables, graphs and diagrams)	2. Maxcy Public Health and Preventive Medicine 3. Park's Text Book of Preventive and Social Medicine	Community Medicine	
9:30-10:15	9.	Topic not specified yet				Community Medicine	45 min
	10	HOSPITAL WORK					10.30-2.30

Thursday, 20-02-2025							
8:00-8:45	11	Cataract		▪		EYE	45 min
8:45-9:30	12	Biostatistics		Collection and registration of vital events in Pakistan, sources of health related statistics	Maxcy Public Health and Preventive Medicine Park's Text Bood of Preventive and social Medicine.	COMMUNITY MEDICINE	45 min
9:30-10:15	13	Topic not specified yet				ENT	45 min
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Community Medicine Lecture (12:00 – 12:45pm)	Practical 12.45—02.30pm
Friday, 21-02-2025							
8:00-8:45	14	Biostatistics		Interpretation of data: 1. Z test 2. Chi-square test	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	15	Biostatistics		Interpretation of data: ▪ t-test ▪ dependent sample t test, ▪ independent sample t test ▪ one sample test	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
9:30-10:15	16	Glaucoma				Ophthalmology	45 min
Hospital work 10.30-12.00							
Saturday, 22-02-2023							
8:00-8:45	17	Topic not specified yet		1.	1.	ENT	45 min
8:45-9:30	18	Glaucoma				Ophthalmology	45 min
9:30-10:15	19	Biostatistics		Interpretation of data: 2. ODDS ratio 3. Regression Analysis	2. Maxcy Public Health and Preventive Medicine 3. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
Hospital work 10.30-2.30							
Monday, 24-02-2025							
8:00-8:45	20	Biostatistics		Sampling and its various techniques	1. Maxcy Public Health and Preventive Medicine	Community Medicine	45 min

					2. Park's Text Book of Preventive and Social Medicine		
8:45-9:30	21	Glaucoma				Ophthalmology	45 min
9:30-10:15	22	Topic not specified yet				ENT	45 min
Hospital work 10.30-02.30							
Tuesday 25-02-2025							
8:00-8:45	23	Information, Education and Communication		1. Concept, Aims and objectives 2. Approaches used in public health 3. Contents, principles and stages of health education	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	24	Scleritis				Ophthalmology	45 min
9:30-10:15	25	Topic not specified yet				ENT	45 min
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Community Medicine Lecture (12:00 – 12:45pm)	Practical 12.45—02.30pm
Wednesday 26-02-2025							
8:00-8:45	26	Topic not specified yet				ENT	45 min
8:45-9:30	27	Topic not specified yet				Community Medicine	45 min
9:30-10:15	28	Topic not specified yet				Ophthalmology	45 min
Thursday, 27-02-2025							
8:00-8:45	29					ENT	
8:45-9:30	30					EYE	
9:30-10:15	31	Biostatics				Community Medicine	
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Community Medicine Lecture (12:00 – 12:45pm)	Practical 12.45—02.30pm
Friday, 28-02-2025							

8:00-8:45	32					EYE	
8:45-9:30	33					Community Medicine	
9:30-10:15	34					ENT	
Saturday, 01-03-2025							
8:00-8:45	35					ENT	
8:45-9:30	36					EYE	
9:30-10:15	37					Community Medicine	

Note: All lectures will be conducted in Maqbool Ahmad Block, KEMU, Lahore

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TIME TABLE OF 4TH YEAR MBBS (2024-25)
1st Intermodule (17th February, 2025 to 1st March, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
17-02-2025	Mon	ENT	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
18-02-2025	Tue	Ophthalmology	Community Medicine	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
19-02-2025	Wed	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
20-02-2025	Thu	EYE	Community Medicine	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
21-02-2025	Fri	Community Medicine	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 12:00 p.m.		
22-02-2025	Sat	ENT	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
24-02-2025	Mon	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30p.m.		
25-02-2025	Tue	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
26-02-2025	Wed	ENT	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 12:00 p.m.		
27-02-2025	Thu	ENT	EYE	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
28-02-2025	Fri	EYE	Community Medicine	ENT	Hospital Work 10:30a.m. – 12:00 p.m.		
01-03-2025	Sat	ENT	EYE	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		

All lectures will be conducted in Maqbool Ahmad Block, KEMU, Lahore.

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KEMU 4th Year MBBS 2025

MODULE

DISEASES OF BLOOD VESSELS AND HEART

DURATION 10 DAYS (03-02-2025 to 15-02-2025)

CONTACT HOURS Lectures 45 =33.75 hours (2.1) + Practical's + Hospital stay = 31.45 Hours (0.6)

CREDIT HOURS 2.7

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of blood vessels and Heart. The interrelated clinical aspects of Medicine, Surgery, Eye, Ear, Nose and Throat and Gynecological problems will also be covered. By the end of the module, the students should be able to:

1. Describe:

Vascular structure and cardiac structure

2. Discuss the Pathological and all clinical aspects of:

- Atherosclerosis
- Hypertensive vascular diseases
- Vasculitis
- Vascular tumors
- Ischemic heart diseases
- Valvular heart diseases
- Cardiomyopathies
- Cardiac tumors

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
Monday 03-02-2025							
08:00-08: 45	1	Atherosclerosis		Pathogenesis -Complications of Atherosclerosis		Pathology	45 min
08: 45-09: 30	2	Changes in physiology of CVS and blood vessels in Pregnancy				Gynecology	45 min
09: 30-10: 15	3	Clinical features of vascular diseases of Retina and orbit		To know clinical relevance of CVS changes in pregnancy To know how this modifies routine and emergency care of pregnant patients		EYE	45 min
Hospital work 10.30-2.30 p.m.							
Tuesday 04-02-2025							
08:00-08: 45	4.	Vacuities		- Buerger disease - Behcet disease - Granulomatous polyangitis		Pathology	45 min
08: 45-09: 30	5.	Valvular Heart Disorder				Pathology	45 min
09: 30-10: 15	6.	inherited connective tissue disorders				Medicine	45 min
Hospital work 10.30-12:00							
		PRACTICAL		LECTURE PRACTICAL SMALL GROUP DISCUSSIONS	Community Medicine Lecture 12: 00 to 12:45	Respective departments	12:45- 2:30
05-02-2025 (Holiday)							
Wednesday 06-02-2025							
08:00-08: 45	7.	Limb ischemia		Acute & chronic		Surgery	45 min
08: 45-09: 30	8.	Vascular disorders of ENT				ENT	45 min
09: 30-10: 15	9.	Vascular lesions of brain				Neurosurgery	45 min
Hospital work 10.30-2.30 p.m.							
Friday 07-02-2025							
08:00-08: 45	10.	Aneurysms		Clinical presentation and management		Cardiac Surgery	45 min
08: 45-09: 30	11	Dissecting Aneurysms		Abdominal Thoracic aortic		Pathology	45 min

09: 30-10: 15	12	Vasculitis		• Polyarteritis nodosa • Takayasu arylteritis • Kawasaki arteritis		pathology	45 min
		HOSPITAL WORK		Respective Departments 10.30-12.00 p.m.			
Saturday 08-02-2025							
08:00-08: 45	13.	Coronary artery disease and peripheral vascular disease		Pathophysiology and clinical features		Medicine	45 min
08: 45-09: 30	14.	Environmental/ social factors contributing towards Cardiovascular diseases (1)		Five levels of prevention for hypertension		Community Medicine	
09: 30-10: 15	15.	Anesthesia in cardiovascular diseases		Perioperative management of hypertensive patient		Anesthesia	45 min
HOSPITAL WORK 10.30-2.30 p.m.							
Monday 10-02-2025							
08:00-08: 45	16	Cardiomyopathies		Pathological aspects		Pathology	45 min
08: 45-09: 30	17	Cardiomyopathies		Clinical aspects		Medicine	45 min
09: 30-10: 15	18	Cardiac diseases in pregnancy		-To know common cardiac diseases in pregnant pts. -Effects of pregnancy on preexisting cardiac disease -Antenatal and labor management of pregnant patients		Obstetrics	45 min
Hospital work 10:30-12:00							
Tuesday 11-02-2025							
08:00-08: 45	19	Hypertensive retinopathy				Eye	45 min
08: 45-09: 30	20	Cardiac contusion & cardiac tamponade				SURGERY	45 min
09: 30-10: 15	21	Anesthesia in Ischemic heart disease		Assessment & management, Anaesthetic goals		Anesthesia	45 min
Hospital work 10:30-12:00 p.m.							
		PRACTICAL		PRACTICAL SMALL GROUP DISCUSSIONS	Community Medicine Lecture 12:00-12:45	Respective Departments	12.00—2.30
Wednesday 12-02-2025							
08:00-08: 45	22.	Varicose veins & DVT				Surgery	45 min
08: 45-09: 30	23.	Chemodectoma & cavernous sinus thrombosis				ENT	45 min

09: 30-10: 15	24.	Management of Intra Cranial hematoma		Extradural, Subdural, Intracerebral, intraventricular (causes, manifestation & management)		Neurosurgery	45 min
Hospital work 10.30-2.30 p.m.							
Thursday 13-02-2025							
08:00-08: 45	25.	vertigo				ENT	45 min
08: 45-09: 30	26.	Prevention of CVA				Community medicine	45 min
09: 30-10: 15	27.	Vascular lesions of the Orbit				Eye	45 min
Hospital work 10:30-12:00 p.m.							
		PRACTICAL		Pathology & Community Medicine	Community Medicine Lecture 12:00 – 12:45	Respective departments	12.00—2.30
Friday 14-02-2025							
08:00-08: 45	28.	ISCHEMIC HEART DISEASES		Pathophysiology of IHD		pathology	45 min
08: 45-09: 30	29	ISCHEMIC HEART DISEASES		Clinical aspects of IHD		Cardiology	45 min
09: 30-10: 15	30	Systemic hypertension				Medicine	45 min
HOSPITAL WORK 10.30-12.00							
Saturday 15-02-2025							
08:00-08: 45		Cardiac Tumor		Pathophysiology		Pathology	45 min
08: 45-09: 30		Cardiac Tumor		Clinical Aspect		Cardiology	45 min
09: 30-10: 15		Revision				Community Medicine	45 min

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ENDOCRINE SYSTEM (3rd March, 2025 to 15th March, 2025)

DURATION 12 DAYS

CONTACT HOURS Lectures 22 =16.5 hours (1) + Practical's + Hospital stay = 44 Hours (0.91)

CREDIT HOURS 2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of Endocrine System including Pituitary Thyroid & Parathyroid gland. The interrelated clinical aspects of Medicine, Surgery, Orthopaedics will be covered. The radiological aspects will also be dealt with.

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
03-03-2025 Monday							
8:00 8:45	1	Introduction to Endocrinology				Medicine	45 min
8:45- 9:30	2	Pituitary gland		• Classification of Pituitary Adenomas • Morphological features of various types of Pituitary adenomas • Genetic alterations in Pituitary tumors	Robbins & Cotran	Pathology	45 min
9:30- 10:15	3	Acromegaly and gigantism. Hyperprolactinaemia		• Causes, clinical features, investigation and treatment of Acromegaly. • Causes, clinical features, investigation and treatment of Hyperprolactinaemia.	•Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016	Medicine	45 min

					(LANGE CURRENT Series) 55th Edition		
Hospital work 10.30-2.30							
04-03-2025 Tuesday							
8:00-8:45	4.	Posterior Pituitary (Diabetes insipidus, SIADH)		- Types, Causes, clinical features, investigation and treatment of Diabetes insipidus. - Causes, clinical features, investigation and treatment of SIADH.	•Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	Medicine	45 min
8:45-9:30	5.	Hypopituitarism. GROWTH AND ABNORMAL STATURE		- Causes, clinical features, investigation and treatment of Hypopituitarism. - Causes, investigation and treatment of Short Stature	•Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	MEDICINE	45 min
9:30-10:15	6.	Pituitary lesions in brain				Neuro Surgery	45 min
Hospital work 10.30-11.45							
PRACTICAL						Respective departments	12.00—2.30
05-03-2025 Wednesday							
8:00-8:45	7.	Role of imaging in endocrine lesions				RADIOLOGY	45 min
8:45-9:30	8.	Hypothyroidism		Causes, clinical features, investigation and treatment of Hypothyroidism.	•Davidson's Principles and	Medicine	45 min

				Myxedema Coma	Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition		
9:30-10:15	9.	Non neoplastic thyroid diseases		Etiology & morphology of Hyperthyroidism Causes of hypothyroidism Cretinism , Myxedema		Pathology	45 min
Hospital work 10.30-2.30							
06-03-2025 Thursday							
8:00 8:45	10.	Hyperthyroidism		Causes, clinical features, investigation and treatment of Hyperthyroidism. Thyroid Crisis	Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	Medicine	45 min
8:45-9:30	11.	Thyroiditis & thyroid neoplasms		Pathogenesis & morphological features of - Hashimotos thyroiditis & Graves disease - Adenomas ,Papillary, Medullary & Follicular carcinomas		Pathology	45 min
9:30-10:15	12.	Lab investigations for pituitary & thyroid Disorders				Pathology	45 min
Hospital work 10.30-11.45							
PRACTICAL						Respective departments	12.00—2.30

07-03-2025 Friday							
8:00-8:45	13.	Thyroid eye disease				Ophthalmology	45 min
8:45-9:30	14	NeuroOphthalmology (Lesions of optic tract)				Ophthalmology	45 min
9:30-10:15	15	Polycystic ovarian disease				Gynaecology	45 min
HOSPITAL WORK 10.30-12.00							
08-03-2024 Saturday							
8:00-8:45	16.	Disorders Of Calcium Metabolism. Hyperparathyroidism. hypoparathyroidism		• Causes of Hypercalcemia. • Types, causes, clinical features, investigation and treatment of Hyperparathyroidism. • Causes of Hypocalcemia. • Causes, clinical features, investigation and treatment of Hypoparathyroidism.	Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	Medicine	45 min
8:45-9:30	17.	Parathyroid glands		Pathogenesis & morphological features of • Primary & Secondary Hyperparathyroidism • Hypoparathyroidism		Pathology	
9:30-10:15	18.	Management of metabolic fractures				Surgery	45 min
HOSPITAL WORK 10.30-2.30							
10-03-2025 Monday							
8:00-8:45	20	Surgery in Diabetes & Diabetic Foot				Surgery	45 min
8:45-9:30	21	Diabetes Mellitus		• Classification, clinical features, complications, investigation and treatment of DM.	•Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition	Medicine	45 min

					•CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition		
9:30-10:15	22	Diabetes Mellitus		- Insulin signaling pathways - Classification - Morphology & pathogenesis of type 1 & type 2 Diabetes Mellitus	Robbins & Cotran	Pathology	45 min
Hospital work 10.30-2.30							
11-03-2025 Tuesday							
8:00-8:45	23	Diabetic retinopathy2		Classification	Robbins & Cotran	Ophthalmology	
8:45-9:30	24.	Diabetic retinopathy 1		Pathophysiology		Ophthalmology	
9:30-10:15	25.	Diabetes Mellitus		Differences btw type 1 & type 2 D.M Morphological features & Pathogenesis of diabetic complications (microvascular, macrovascular)		Pathology	45 min
Hospital work 10.30-11.45							
PRACTICAL						Respective departments	12.00—2.30
12-03-2025 Wednesday							
8:00-8:45	26.	Diabetes Mellitus – Metabolic Emergencies		Diabetic ketoacidosis. Hyperosmolar hyperglycaemic state. Lactic acidosis.	•Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	Medicine	45 min
8:45-9:30	27.	Gestational diabetic Mellitus				Gynaecology	45 min
9:30-	28.	Diabetic retinopathy (3)		Management		Ophthalmology	45 min

10:15							
Hospital work				10.30-2.30			
13-03-2025 Thursday							
8:00-8:45	29.	Diabetic neuropathy				Neurology	45 min
8:45-9:30	30.					Plastic surgery	45 min
9:30-10:15	31.					Community medicine	45 min
Hospital work				10.30-11.45			
PRACTICAL						Respective departments	12.00—2.30
14-03-2025 Friday							
8:00-8:45	32.	• Hyperaldosteronism • Pheochromocytoma		• Causes, clinical features, investigation and treatment of Hyperaldosteronism • Clinical features, investigation and treatment of Pheochromocytoma	• Davidson's Principles and Practice of Medicine 22nd Edition • Kumar and Clark's Clinical Medicine, 8th Edition • CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	Medicine	45 min
8:45-9:30	33	• Adrenal glands		Causes, Pathogenesis & Morphological features of • Cushing's syndrome • Hyperaldosteronism • Congenital adrenal hyperplasia	Robbins & Cotran	Pathology	45 min
9:30-10:15	34	Anesthesia consideration for surgery for pheochromocytoma & Adrenal & thyroid				Anesthesia	45 min
HOSPITAL WORK 10.30-12.00							

15-03-2025 Saturday							
8:00-8:45	35.	Hypoadrenalism		- Causes, clinical features, investigation and treatment of Addison's disease: Primary Hypoadrenalism - Secondary Hypoadrenalism	Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	Medicine	45 min
8:45-9:30	36.	Adrenal glands		Causes, Pathogenesis & Morphological features of Adrenal insufficiency Adrenocortical neoplasms	Robbins & Cotran	Pathology	45 min
9:30-10:15	37.					Surgery	45 min
Hospital Work 10.30-2.30							

DR. SAFEENA SARFRAZ,
4th year MBBS Module Incharge
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PROF. DR. FAIZA BASHIR,
Chairperson
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King Edward Medical University,
Lahore.



TIME TABLE OF 4TH YEAR MBBS (2024-25)
GASTROINTESTINAL & HEPATOBILIARY SYSTEM Module (14th April, 2025 to 10th May, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
14-04-2025	Mon	Paeds Surgery	Pathology	Surgery	Hospital Work 10:30a.m. – 02:30 p.m.		
15-04-2025	Tue	Community Medicine	Pathology	Surgery	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
16-04-2025	Wed	Pathology	Paederatic Surgery	Medicine	Hospital Work 10:30a.m. – 02:30p.m.		
17-04-2025	Thu	Community Medicine	Surgery	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
18-04-2025	Fri	Pathology	Medicine	Surgery	Hospital Work 10:30a.m. – 12:00p.m.		
19-04-2025	Sat	Community Medicine	Paederatic Surgery	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
21-04-2025	Mon	Radiology	Pathology	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
22-04-2025	Tue	Community Medicine	Paederatic Medicine	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
23-04-2025	Wed	Community Medicine	Psychiatry	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
24-04-2025	Thu	Community Medicine	Medicine	Radiology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
25-04-2025	Fri	Community Medicine	Surgery	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
26-04-2025	Sat	Medicine	Surgery	Oncology	Hospital Work 10:30a.m. – 02:30p.m.		
28-04-2025	Mon	Pathology	Community Medicine	Medicine	Hospital Work 10:30a.m. – 02:30p.m.		
29-04-2025	Tue	Pathology	Pathology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
30-04-2025	Wed	Pathology	Medicine	Community Medicine	Hospital Work 10:30a.m. – 02:30p.m.		

01-05-2024 (Holiday)							
02-05-2025	Fri	Surgery	Pathology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
03-05-2024	Sat	Pathology	Surgery	Oncology	Hospital Work 10:30a.m. – 02:30p.m.		
05-05-2025	Mon	Pathology	Anesthesia	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
06-05-2025	Tue	Pathology	Medicine	Surgery	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
07-05-2025	Wed	Community Medicine	Paeds Medicine	Gynecology	Hospital Work 10:30a.m. – 02:30p.m.		
08-05-2025	Thu	Paed Medicine	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
09-05-2025	Fri	Paeds Surgery	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
10-05-2025	Sat	Gynecology	Medicine	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		

All lectures will be conducted in Maqbool Ahmad Block, KEMU, Lahore.

DR. SAFEENA SARFRAZ,
Module Incharge of 4th year MBBS,
Assistant Professor
KEMU, Lahore

PROF. DR. FAIZA BASHIR
Chairperson
Department of Pathology
King Edward Medical University, Lahore.



MODULE

GASTROINTESTINAL & HEPATOBILIARY SYSTEM

DURATION 23 DAYS 14-04-2025 to 10-05-2025

CONTACT HOURS Lectures 57 =42.75 hours (2.6) + Practicals + Hospital stay = 39.83 Hours (0.7)

CREDIT HOURS 3.3

TEACHING METHODOLOGIES Lectures/ Practical's / small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of congenital anomalies, inflammatory and neoplastic conditions of salivary glands, oral cavity, gastrointestinal tract, liver, gall bladder and pancreas. The interrelated clinical aspects of Medicine, Surgery, Oncology, Radiology and Gynecological problems will also be covered. By the end of the module, the students should be able to:

Discuss the Pathological and Clinical aspects of:

- Sialadenitis
- Leukoplakia
- Barrett oesophagus
- Gastritis/Peptic ulcer
- Benign and malignant tumors of GIT including salivary glands, oral cavity, liver, pancreas and gall bladder
- Congenital anomalies of GIT
- Intestinal obstruction
- Inflammatory bowel disease
- Diarrhea
- Jaundice
- Infectious and autoimmune hepatitis
- Alcoholic and metabolic liver disease
- Cirrhosis
- Cholecystitis& Pancreatitis
- Various related diagnostic & interventional techniques
- Radiological investigations

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
WEEK 1							
Monday 14-04-2025							
8.00-8.45	1.	Congenital diseases of GIT				Paeds Surgery	45 min
8.45-9.30	2.	Inflammation of salivary glands, Benign and malignant tumors		Etiology, pathogenesis and morphology	Robbins & Cotrans	Pathology	45 min
9.30-10.15	3.	Salivary Glands		- Clinical Features - Investigations. - Management	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
		HOSPITAL WORK			Respective departments	10.30-2.30	
Tuesday 15-04-2025							
8.00-8.45	4.	Control of epidemic of GIT diseases		Planning and strategizing of GIT epidemic control	1-Maxcy Public Health and Preventive Medicine. 2-Park's Text Book of Preventive and Social Medicine.	Community Medicine	45 min
8.45-9.30	5.	Infections of oral cavity, Precancerous & cancerous lesions of oral cavity		- Etiology - Oral manifestation of systemic disease	Robbins & Cotrans	Pathology	45 min
9.30-10.15	6.	Pre cancerous and malignant conditions of oral cavity.		- Clinical Features - Investigations. - Management	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
HOSPITAL WORK (10:30 – 12:00)						Community Medicine (Lecture 12:00 – 12:45)	Pathology Practical (12:45-02:30)
Wednesday 16-04-2025							
8.00-8.45	7.	Oesophageal pathologies		- Achalasia - Esophagitis - Barrett Esophagus (GERD) - Oesophageal tumors	Robbins & Cotrans	Pathology	45 min
8.45-9.30	8.	Neonatal Gastrointestinal obstruction		Idiopathic Hypertrophic pyloric stenosis, Small and large bowel atresias, Anorectal malformations, Hirschsprung's disease, Malrotation.	Pediatric Surgery by Jay L Grosfeld volume 7	Paederatic Surgery	45 min

9.30-10.15	9.	Dysphagia, GERD		Dysphagia: Differential Diagnosis GERD: Definition, Clinical Features, Management	- Davidson's Principles and Practice of Medicine 22nd Edition - Kumar and Clark's Clinical Medicine, 8th Edition - CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series)55th Edition	Medicine	45 min	
		HOSPITAL WORK						10.30-2.30
Thursday 17-04-2025								
8.00-8.45	10.	GI parasitic zoonosis of public health importance		Prevention and Control of parasitic zoonosis	1.Maxcy Public Health and Preventive Medicine 2. Park’s Text Book of Preventive and Social Medicine	Community Medicine	45 min	
8.45-9.30	11.	- Carcinoma esophagus. - Achalasia cardia.		- Clinical features. - Investigations. - Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min	
9.30-10.15	12.	Acute and chronic gastritis		Etiology, Pathogenesis and morphology with emphasis on H pylori	Robbins & Cotrans	Pathology	45 min	
		HOSPITAL WORK (10:30-12:00 p.m.)					Community Medicine 12:00- 12:45	Pathology Practical 12:45- 2:30
Friday 18-04-2025								
8.00-8.45	13.	Peptic ulcer Gastric polyp Gastric Tumours		- Etiology, Pathogenesis and morphology - Stress ulcers, pyloric stenosis		Pathology	45 min	

[illegible]

8.00-8.45	19.	Plain X-Ray Abdomen / Sialography for Salivary glands Barium Swallow/Barium Follow through /Barium Enema		Interpretation		Radiology	45 min
8.45-9.30	20.	Intestinal pathologies- obstruction and diarrhea		- Etiology, pathogenesis and morphology of Ischemic Bowel Disease, Irritable bowel syndrome, Intestinal Obstruction, celiac disease - Causes of diarrhea including Giardiasis and Amoebiasis		Pathology	45 min
9.30-10.15	21.	Intestinal obstruction		- Clinical features. - Investigations. - Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
Hospital work 10.30-2.30							
Tuesday 22-04-2025							
8.00-8.45	22.	Poliomyelitis		Will be able to plan and make strategies to combat Polio and understand the bottle necks in its eradication	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8.45-9.30	23.	Acute Diarrhoea & Celia disease				Paederatic medicine	
9.30-10.15	24.	Diarrhea:Acute		Diarrhea:Acute Causes, Clinical Presentations, Investigations and management	Davidson's Principles and Practice of Medicine 22nd Edition Kumar and Clark's Clinical Medicine, 8th Edition CURRENT Medical Diagnosis and Treatment 2016	Medicine	

					(LANGE CURRENT Series)55th Edition		
Hospital work (10:30-12.00 p.m.)						Community medicine Lecture 12:00-12:45	Pathology Practical 12:45- 2:30 pm.
Wednesday 23-04-2025							
8.00-8.45	25.	Typhoid		Learn about prevention and epidemic control of Typhoid	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	
8.45-9.30	26.	Somatoform disorders		Management		Psychiatry	
9.30-10.15	27.	Inflammatory Bowel Disease and Graft vs host disease		Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
HOSPITAL WORK 10.30-2.00							
Thursday 24-04-2025							
8.00-8.45	28.	Intestinal TB		Understand epidemiology and Public Health significance of intestinal T.B	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8.45-9.30	29.	Diarrhea Chronic: Large Gut. Inflammatory Bowel Disease		Diarrhea, Chronic: Large Gut. Causes, Clinical Presentations. Inflammatory Bowel Disease: Types, Clinical features, Investigations and management.	- Davidson's Principles and Practice of Medicine 22nd Edition - Kumar and Clark's Clinical Medicine, 8th Edition - CURRENT Medical Diagnosis and Treatment 2016 (LANGE	Medicine	45 min

					CURRENT Series) 55th Edition		
9.30-10.15	30.	Ultrasound Abdomen – Liver, Pancreas, Spleen C.T. Abdomen / C.T. Head and Neck		Interpretation		Radiology	45 min
HOSPITAL WORK 10:30-12:00						Community medicine 12:00- 12: 45 p.m.	Pathology Practical 12:45- 2:30
Friday 25-04-2025							
8.00-8.45	31.	Cholera		Learn about prevention and epidemic control of Cholera	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8.45-9.30	32.	Inflammatory bowel disease.		- Clinical features. - Investigations. - Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
9.30-10.15	33.	Non- Neoplastic and neoplastic polyps, colorectal Carcinoma		Etiology, Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
Hospital work 10.30-12.00							
Saturday 26-04-2025							
8.00-8.45	34.	Celiac Disease		Diarrhea (Chronic) Small Gut: Malabsorption: Causes, Clinical Presentations Celiac Disease: Clinical Features, Investigations. Management	Davidson's Principles and Practice of Medicine 22nd Edition Kumar and Clark's Clinical Medicine, 8th Edition CURRENT Medical Diagnosis and Treatment 2016 (LANGE	Medicine	45 min

					CURRENT Series) 55th Edition		
8.45-9.30	35.	Pre malignant and malignant conditions of the colon and rectum.		- Clinical features. - Investigations. - Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
9.30-10.15	36.	Colorectal cancers		Screening modalities for colorectal cancers Staging work up and management and targeted therapies in colorectal cancers		Oncology	45 mins
HOSPITAL WORK 10.30-2.30							
Monday 28-04-2025							
8.00-8.45		Liver Pathology				Pathology	
8.45-9.30		Topic not conveyed				Community Medicine	
9.30-10.15		Topic not conveyed				Medicine	
HOSPITAL WORK 10.30-2.30							
Tuesday 29-04-2025							
8.00-8.45	37.	Pattern of hepatocytes response to injury		Reversible and irreversible injury Hepatic Complications Hepatic Encapthalopathy	Robbins & Cotrans	Pathology	45 min
8.45-9.30	39.	Jaundice Cholestasis, LFT's		Classification, causes and pathophysiology, Interpretation of LFTs		Pathology	45 min
		Jaundice Acute Hepatitis		Jaundice. (PreHepatic, Hepatic and Post-Hepatic) Acute Hepatitis: Causes Clinical Presentation (HAV, HEV), Investigation and Management	- Davidson's Principles and Practice of Medicine 22nd Edition - Kumar and Clark's Clinical Medicine, 8th Edition - Current Medical Diagnosis and	Medicine	

					Treatment 2016 (LANGE CURRENT Series) 55 th Edition		
HOSPITAL WORK 10: 30- 12: 00						Community Medicine 12: 00- 12: 45 p.m.	Pathology Practical 12: 45- 2: 30 p.m.
Wednesday 30-04-2025							
8.00- 8.45	43.	Infectious and inflammatory liver disorders		Pathogenesis, Morphology and laboratory diagnosis of Viral hepatitis, Liver abcess, Autoimmune hepatitis		Pathology	45 min
8.45- 9.30	44.	Chronic Hepatitis. Hepatitis B, Hepatitis C		Chronic Hepatitis: Causes. Hepatitis B: Clinical Features, Investigations and Management. Hepatitis C: Clinical Features, Investigations and Management.	- Davidson's Principles and Practice of Medicine 22nd Edition - Kumar and Clark's Clinical Medicine, 8th Edition - CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series)55th Edition	Medicine	45 min
9.30- 10.15	45. 45.	Hydatid disease and Yellow fever		Learn about prevention and control measures of Hydatid Disease and Yellow Fever	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
HOSPITAL WORK 10.30-2.30							
Thursday 01-05-2025 (Holiday)							
Friday 02-05-2025							

8.00-8.45	46.	Portal hypertension.		- Clinical features. - Investigations. - Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
8.45-9.30	47.	Alcoholic and metabolic liver disease, Cirrhosis		Pathophysiology and morphology of - alcoholic liver disease, - Non-alcoholic liver disease, - Wilson's disease, - Haemochromatosis - Cirrhosis		Pathology	45 min
9.30-10.15	48.	Chronic Liver Disease.		Chronic Liver Disease: Causes, Clinical features, Complications, Investigations and Management.	Davidson's Principles and Practice of Medicine 22nd Edition Kumar and Clark's Clinical Medicine, 8th Edition CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series)55th Edition	Medicine	45 min
HOSPITAL WORK 10:30-12:00							
Saturday 03-05-2025							
8.00-8.45	49.	Benign and malignant neoplasms of liver, gall bladder and pancreas		Etiology and Morphology with emphasis on Metastatic liver disease		Pathology	45 min
8.45-9.30	50.	Hepatocellular carcinoma		- Clinical features. - Investigations. - Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
9.30-10.15	51.	Hepatocellular carcinoma , Pancreatic cancer		Staging work up and management of HCC , Pancreatic Adenocarcinoma and Neuroendocrine tumors		Oncology	45 min
HOSPITAL WORK 10.30-2.30							
Monday 05-05-2025							
8.00-8.45	52.	Carcinoma gall bladder		- Clinical features. - Investigations. - Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	

8.45-9.30	53.	Aspiration of gastric contents; causes, prevention and management				Anaesthesia	45 min
9.30-10.15	54.	HIV/AIDS		Will be able to plan and make strategies to control HIV/AIDS and understand the bottle necks in its management	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
HOSPITAL WORK 10.30-2.30							
Tuesday 06-05-2025							
8.00-8.45	55.	Pancreatitis and cholecystitis		- Acute and chronic forms - Etiology, pathogenesis and morphology		Pathology	45 min
8.45-9.30	56.	Pancreatitis. Acute and Chronic.		Pancreatitis: (Acute and Chronic). Clinical Features, Complications , Investigations and management.	Davidson's Principles and Practice of Medicine 22nd Edition Kumar and Clark's Clinical Medicine, 8th Edition CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series)55th Edition	Medicine	
9.30-10.15	57.	Acute and chronic pancreatitis.		- Clinical features. - Diagnosis. - Management.	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
HOSPITAL WORK 10: 30- 12: 00						Community Medicine 12: 00- 12: 45 p.m.	Pathology Practical 12: 45- 2: 30 p.m.
Wednesday 07-05-2025							
8.00-8.45	58	Acute and Chronic Viral Hepatitis		Understand the epidemiology, planning and control measures of acute and chronic viral hepatitis	Maxcy Public Health and	Community Medicine	45 min

					preventive Medicine • Park's Text Book of Preventive and social Medicine		
8.45- 9.30	59	Neonatal Jaundice				Paeds Medicine	45 min
9.30- 10.15	60	Jaundice in Pregnancy HELLP		Management		Gynecology	45 min
HOSPITAL WORK 10.30-2.30							
Thursday 08-05-2025							
8.00- 8.45	61	Revision				Paed- Medicine	45 min
8.45- 9.30	62.	Revision				Community Medicine	45 min
9.30- 10.15	63.	Revision				Community Medicine	45 min
HOSPITAL WORK 10: 30- 12: 00						Community Medicine 12: 00- 12: 45 p.m.	Pathology Practical 12: 45- 2: 30 p.m.
Friday 09-05-2025							
8.00- 8.45	64.	Revision				Paeds Surgery	45 min
8.45- 9.30	65.	Liver Function Test				Pathology	45 min
9.30- 10.15	66.	Liver Function Test				Pathology	45 min
Hospital work 10.30-12.00							
Saturday 10-05-2025							
8.00- 8.45	67	Revision				Gynecology	45 min
8.45- 9.30	68	Revision				Medicine	45 min
9.30- 10.15	69	Revision				Surgery	45 min
HOSPITAL WORK 10.30-2.30							

DR. SAFEENA SARFRAZ,
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Assistant Professor
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PROF. DR. FAIZA BASHIR
Chairperson
Department of Pathology
King Edward Medical University,



TIME TABLE OF 4TH YEAR MBBS (2024-25)
(Respiratory System)
Starting Date 17-03-2025 to 12-04-2025

Date	Day	08:00 – 08:40a.m.	08:40 – 09:20a.m.	09:30 – 10:10a.m.	Hospital Work		Practical
17-03-25	Mon	ENT	Community Medicine	Eye	Hospital Work 09:45a.m. – 01:00p.m.		
18-03-25	Tue	Behavioral Sciences	Pathology	Anesthesia	Hospital Work 09:45a.m. To 11:00 a.m.	Community Medicine Lecture (11:00a.m. To 11:45a.m.)	Practical 11:45p.m. – 1:00p.m.
19-03-25	Wed	Chest Medicine	Pathology	Community Medicine	Hospital Work 09:45a.m. – 01:00p.m.		
20-03-25	Thu	Obstetrics & Gynecology	Pathology	Medicine	Hospital Work 09:45a.m. To 11:00 a.m.	Community Medicine Lecture (11:00a.m. To 11:45a.m.)	Practical 11:45p.m. – 1:00p.m.
21-03-25	Fri	Medicine	Community Medicine	Anesthesia	Hospital Work 09:45a.m. – 12:00p.m.		
22-03-25	Sat	Surgery	ENT	Neurology	Hospital Work 09:45a.m. – 01:00p.m.		
24-03-25	Mon	ENT	Pathology	Community Medicine	Hospital Work 09:45a.m. – 01:00p.m.		
25-03-25	Tue	Pathology Test			Hospital Work 09:45a.m. To 11:00 a.m.	Community Medicine Lecture (11:00a.m. To 11:45a.m.)	Practical 11:45p.m. – 1:00p.m.
26-03-25	Wed	Surgery	Pathology	Community Medicine	Hospital Work 09:45a.m. – 01:00p.m.		
27-03-25	Thu	Chest Medicine	Pathology	Community Medicine	Hospital Work 09:45a.m. To 11:00 a.m.	Community Medicine Lecture (11:00a.m. To 11:45a.m.)	Practical 11:45p.m. – 1:00p.m.
28-03-25	Fri	Obstetrics & Gynecology	Pathology	Eye	Hospital Work 09:45a.m. – 12:00p.m.		
29-03-25	Sat	Chest Medicine	Pathology	Surgery	Hospital Work 09:45a.m. – 01:00p.m.		

09-04-25	Wed	ENT	Community Medicine	Eye	Hospital Work 10:30a.m. – 02:30p.m.		
10-04-25	Thu	Pathology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.	Practical 12:45p.m. – 2:30p.m.
11-04-25	Fri	Surgery	ENT	Neurology	Hospital Work 10:30a.m. – 12:00p.m.		
12-04-25	Sat	Surgery	Pathology	Medicine	Hospital Work 10:30a.m. – 02:30p.m.		

All lectures will be conducted in Maqbool Ahmad Block of KEMU.

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TIME TABLE OF 4TH YEAR MBBS (2023-24)
Female Genital System (12th May, 2025 to 24th May, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
12-05-2025	Mon	Pathology	Pathology	Gynecology	Hospital Work 10:30a.m. – 02:30 p.m.		
13-05-2025	Tue	Gynecology	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
14-05-2025	Wed	Gynecology	Pathology	Oncology	Hospital Work 10:30a.m. – 02:30 p.m.		
15-05-2025	Thu	Gynecology	Gynecology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
16-05-2025	Fri	Gynecology	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00 p.m.		
17-05-2025	Sat	Gynecology	Pathology	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
19-05-2024	Mon	Gynecology	Pathology	Radiology	Hospital Work 10:30a.m. – 02:30p.m.		
20-05-2025	Tue	Gynecology	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
21-05-2025	Wed	Pathology	Pathology	Oncology	Hospital Work 10:30a.m. – 02:30p.m.		
22-05-2025	Thu	Gynecology	Pathology	Urology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
23-05-2025	Fri	Pathology	Surgery	Oncology	Hospital Work 10:30a.m. – 12:00 p.m.		
24-05-2025	Sat	Pathology	Surgery	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		

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TIME TABLE OF 4TH YEAR MBBS (2024-25)
Kidney and Urinary Bladder (26th May, 2025 to 7th June, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
26-05-2025	Mon	Pathology	Pathology	Radiology	Hospital Work 10:30a.m. – 02:30 p.m.		
27-05-2025	Tue	Pathology	Pathology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
28-05-2025	Wed	Medicine	Radiology	Nephrology/ Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
29-05-2025	Thu	Nephrology/ Medicine	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
30-05-2025	Fri	Pathology	Pathology	Medicine/ Nephrology	Hospital Work 10:30a.m. – 12:30 p.m.		
31-05-2025	Sat	Medicine/ Nephrology	Pathology	Pediatric Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
02-06-2025	Mon	Anesthesia	Urology	Urology	Hospital Work 10:30a.m. – 02:30p.m.		
03-06-2025	Tue	Urology	Pathology	Oncology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
04-06-2025	Wed	Urology	Pathology	Pathology	Hospital Work 10:30a.m. – 02:30 p.m.		
05-06-2025	Thu	Urology	Pathology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
06-06-2025	Fri	Nephrology	Urology	Pathology	Hospital Work 10:30a.m. – 12:30 p.m.		
07-06-2025	Sat	Medicine	Urology	Oncology	Hospital Work 10:30a.m. – 02:30 p.m.		

All lectures will be conducted in Maqbool Ahmad Block/ KEMU, Lahore.

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**TIME TABLE OF 4TH YEAR MBBS (2024-25)
CNS (21st July, 2025 to 26th July, 2025)**

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
21-07-2025	Mon	Neurology	Pathology	Ophthalmology	Hospital Work 10:30a.m. – 02:30 p.m.		
22-07-2025	Tue	Neurology	Neurology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		Practical 12:45p.m. to 02:30p.m.
23-07-2025	Wed	Medicine	Neurology	Pathology	Hospital Work 10:30a.m. – 02:30 p.m.		
24-07-2025	Thu	Neurology	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		Practical 12:45p.m. to 02:30p.m.
25-07-2025	Fri	Neurology	Neurology	Medicine	Hospital Work 10:30a.m. – 12:00 p.m.		
26-07-2025	Sat	Pathology Test			Hospital Work 10:30a.m. – 02:30p.m		

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KEMU 4th Year MBBS 2025

CENTRAL NERVOUS SYSTEM

DATE: 21-07-2025 to 26-07-2025

DURATION 6 DAYS

CONTACT HOURS Lectures 18 =13.5 hours (0.8) + Practical's + Hospital stay = 22 Hours (0.4)

CREDIT HOURS 1.2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of CNS.

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
21-07-2025 Monday							
8:00-8:45	1	Cerebrovascular Accidents Ischemic Stroke		- Definition - Classification /Types - Clinical features - Etiology - Management		Neurology	45 min
8:45-9:30	2	CEREBROVASCULAR DISEASES	•	Pathophysiology & Morphological features of - Cerebral edema, Hydrocephalus - Raised intracranial pressure - Non Haemorrhagic & Haemorrhagic Infarct - Hypertensive CVD	Robbins & Cotran	Pathology	45 min

9:30-10:15	3	3 rd & 4 th nerve Palsy and 6 th nerve palsy				Ophthalmology	45 min
Hospital work 10.30-02.30							
22-07-2025 Tuesday							
8:00-8:45	4.	Hemorrhagic Stroke	- Definition - Risk Factors - Etiology - Management			Neurology	45 min
8:45-9:30	5.	Headache Epilepsy		Types ,clinical approach		Neurology	45 min
9:30-10:15	6.	Prion disease & Degenerative diseases of CNS				Pathology	45 min
Hospital work 10.30-11.45							
		PRACTICAL					12.00—02:30
23-07-2025 Wednesday							
8:00-8:45	7.	Acute Meningitis		Clinical features Etiology Management		Medicine	45 min
8:45-9:30	8.	Dementias/Degenerative brain disorders. - Alzheimer’s disease - Parkinson’s disease				Neurology	45 min
9:30-10:15	9.	Infectious meningitis		- Acute pyogenic - Acute viral - Brain abscess	Robbins & Cotran	Pathology	45 min
Hospital work 10.30-02.30							
24-07-2025 Thursday							
8:00-8:45	10.	Chronic Meningitis		- Clinical features - Etiology - Management		Neurology	45 min
8:45-9:30	11.	Chronic meningitis		- Chronic bacterial (T.B, neurosyphilis, Lyme’s disease) - Chronic Viral (HSV, HIV, CMV, RABIES, Poliomyelitis) - Fungal meningitis	Robbins & Cotran	Pathology	45 min
9:30-10:15	12.	Tumors of CNS		- Gliomas - Meningiomas		Pathology	45 min

Hospital work 10.30-11:45							
		PRACTICAL					12.00—02:30
25-07-2025 Friday							
8:00-8:45		Revision CNS Tumor				Neurology	45 min
8:45-9:30		Revision CNS Tumor				Neurology	45 min
9:30-10:15		CNS tumors				Medicine	45 min
Hospital work: 10.30-12:30							
26-07-2025 Saturday							
8:00-8:45							45 min
8:45-9:30		Pathology Test					45 min
9:30-10:15							45 min

All lectures will be conducted in Maqbool Ahmad Block, KEMU, Lahore.

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KEMU 4th Year MBBS 2025
TIME TABLE OF 4TH YEAR MBBS (2024-25)
3rd Intermodule (28th July, 2025 to 9th August, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
28-07-2025	Mon	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30 p.m.		
29-07-2025	Tue	Ophthalmology	Pathology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
30-07-2025	Wed	Plastic Surgery	Pathology	ENT	Hospital Work 10:30a.m. – 12:00p.m.		
31-07-2025	Thu	Plastic Surgery	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
01-08-2025	Fri	Plastic Surgery	Pathology	ENT	Hospital Work 10:30a.m. – 12:30 p.m.		
02-08-2025	Sat	Plastic Surgery	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30 p.m.		
04-08-2025	Mon	Plastic Surgery	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30p.m.		
05-08-2025	Tue	ENT	Ophthalmology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
06-08-2025	Wed	Community Medicine	Ophthalmology	Pathology	Hospital Work 10:30a.m. – 02:30 p.m.		
07-08-2025	Thu	Pathology	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
08-08-2025	Fri	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:30 p.m.		
09-08-2025	Sat	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30 p.m.		

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KEMU 4th Year MBBS 2025

3RD INTERMODULE, 2024-25

DURATION 12 DAYS (28-July, 2025 to 9th August, 2025)

CONTACT HOURS Lectures 22 =16.5 hours (1) + Practical's + Hospital stay = 44 Hours (0.91)

CREDIT HOURS 2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

NOTE: NOT SPECIFIED YET refers to that the contents haven't been specified or conveyed upto now. So please you can cover the remaining syllabus in these lectures whatever is required.

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
28-07-2025 Monday							
8:00-8:45	1	Not specified yet				Community Medicine	45 min
8:45-9:30	2	Not specified yet		•		Ophthalmology	45 min
9:30-10:15	3	Not specified yet				ENT	45 min
Hospital work				10.30-2.30			
29-07-2025 Tuesday							
8:00-8:45	4.	Not specified yet				Ophthalmology	45 min
8:45-9:30	5.	Breast (1)				Pathology	45 min
9:30-10:15	6.	Not specified yet				ENT	45 min
Hospital work				10.30-11.45			
		PRACTICAL		OVERVIEW PRACTICAL		Respective departments	12.00—2.30

				SMALL GROUP DISCUSSIONS			
30-07-2025 Wednesday							
8:00-8:45	7.	Not specified yet				Plastic surgery	45 min
8:45-9:30	8.	Breast (2)				Pathology	45 min
9:30-10:15	9.	Not specified yet				ENT	45 min
Hospital work 10.30-2.30							
31-07-2025 Thursday							
8:00-8:45	10.	Not specified yet				Plastic surgery	45 min
8:45-9:30	11.	Not specified yet				Ophthalmology	45 min
9:30-10:15	12.	Not specified yet				ENT	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
01-08-2025 Friday							
8:00-8:45	13.	Not specified yet				Plastic surgery	45 min
8:45-9:30	14	Breast (3)				Pathology	45 min
9:30-10:15	15	Not specified yet				ENT	45 min
		HOSPITAL WORK				Respective departments	10.30-12.00
02-08-2025 Saturday							
8:00-8:45	16.	Not specified yet				Plastic surgery	45 min
8:45-9:30	17.	Not specified yet				Ophthalmology	
9:30-10:15	18.	Not specified yet				ENT	45 min
HOSPITAL WORK 10.30-2.30							
04-08-2025 Monday							
8:00-8:45	20	Not specified yet				Plastic surgery	45 min
8:45-9:30	21	Not specified yet				Ophthalmology	45 min
9:30-	22	Not specified yet				ENT	45 min

10:15							
Hospital work				10.30-2.30			
05-08-2025 Tuesday							
8:00-8:45	23.	Not specified yet				ENT	45 min
8:45-9:30	24.	Not specified yet				Ophthalmology	45 min
9:30-10:15	25	Breast (4)				Pathology	45 min
Hospital work				10.30-11.45			
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Respective departments	12.00—2.30
06-08-2025 Wednesday							
8:00-8:45	26.	Not specified yet				Community Medicine	45 min
8:45-9:30	27.	Not specified yet				Ophthalmology	45 min
9:30-10:15	28.	Skin (1)				Pathology	45 min
Hospital work				10.30-2.30			
07-08-2025 Thursday							
8:00-8:45	29.	Skin (2)				Pathology	45 min
8:45-9:30	30.	Not specified yet				Ophthalmology	45 min
9:30-10:15	31.	Not specified yet				ENT	45 min
Hospital work				10.30-11.45			
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
08-08-2025 Friday							
8:00-8:45	32.	Not specified yet				Community Medicine	45 min
8:45-9:30	33	Not specified yet				Ophthalmology	45 min
9:30-10:15	34	Not specified yet				ENT	45 min
HOSPITAL WORK 10.30-12.00							
09-08-2025 Saturday							
8:00-8:45	35.	Not specified yet				Community Medicine	45 min

8:45-9:30	36.	Not specified yet				Ophthalmology	
9:30-10:15	37.	Not specified yet				ENT	45 min
HOSPITAL WORK 10.30-2.30							

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KEMU 4th Year MBBS 2025
2nd INTERMODULE, (Session 2024-25)

DURATION 12 DAYS (10-07-2025 to 19-07-2025)

CONTACT HOURS Lectures 22 =16.5 hours (1) + Practical's + Hospital stay = 44 Hours (0.91)

CREDIT HOURS 2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
10-07-2025 Thursday							
8:00-8:45	1.	Research Epidemiology and Disease Control		Basic measurements in epidemiology (morbidity, mortality, disability and fatality).	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	2.	Clinical evaluation of Strabismus				Ophthalmology	45 min
9:30-10:15	3.					ENT	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Community Medicine		Respective departments	12.00—2.30

11-07-2025 Friday							
8:00-8:45	4.	Research Epidemiology and Disease Control		1. Screening for disease. 2. Community diagnosis 3. Research and survey methodology	4. Maxcy Public Health and Preventive Medicine 5. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	5.	Management of Strabismus		•		Ophthalmology	45 min
9:30-10:15	6.			•		ENT	45 min
Hospital work 10.30-12.30							
12-07-2025 Saturday							
8:00-8:45	07.	Introduction to Strabismus		1.	1.	Ophthalmology	45 min
8:45-9:30	08.	Research Epidemiology and Disease Control		Research Methodology General Epidemiology. Background, concepts and uses	Maxcy Public Health and Preventive Medicine Park's Text Book of Preventive and Social Medicine	Community Medicine	
9:30-10:15	09.					Community medicine	45 min
Hospital work 10.30-02.30							
14-07-2025 Monday							
8:00-8:45	10.	Research Epidemiology and Disease Control		Control Of Infection 1. Controlling the reservoir-notification 2.Early diagnosis and prompt treatment 3.isolation 4.quarantine, disinfections 5. Interruption of transmission		Community Medicine	45 min
8:45-9:30	11.	Research Epidemiology and Disease Control		Prevention and control of infectious diseases	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
9:30-10:15	12.	Amblyopia, corneal ulcers				Ophthalmology	45 min
Hospital work 10.30-02.30							

15-07-2025 Tuesday							
8:00-8:45	13.	Research Epidemiology and Disease Control		Control of Infection 1. The susceptible host (active and passive immunization, 1. Combined, Chemoprophylaxis 2. non-specific measures) Health advice to travelers 4. National case management guidelines	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	14.	Research Epidemiology and Disease Control		Dynamics of Infectious Disease Transmission 1. Reservoir and source of infection. 2. Escape of organism 3. Mode of transmission 4. Entry into the body 5. Susceptible host 6. Immunity (different types of immunity and immunization)	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
9:30-10:15	15.	Corneal ectasia				Ophthalmology	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Community Medicine		Respective departments	12.00—2.30
16-07-2025 Wednesday							
8:00-8:45	16.	Research Epidemiology and Disease Control		Epidemiology, control and prevention of infectious diseases of Public Health Importance 1-Respiratory infections 2-Diseases transmitted through feco-oral route	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
	17.	Errors of refraction				Ophthalmology	45 min
	18.					ENT	45 min
Hospital work 10.30-02:30							
17-07-2025 Thursday							
8:00-8:45	19.	Research Epidemiology and Disease Control		Epidemiology, control and prevention of infectious diseases of Public Health Importance: 1. Arthropod borne diseases	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min

				2. Diseases of animals conveyed to man 3. Diseases due to direct contact			
8:45-9:30	20.	Management of errors of refraction				Ophthalmology	45 min
9:30-10:15	21.					ENT	45 min
Hospital work 10.30-11.45							
		PRACTICAL		Community Medicine		Respective departments	12.00—2.30
18-07-2025 Friday							
8:00-8:45	22.	Research Epidemiology and Disease Control		Epidemiology control and prevention of non-infectious diseases of Public Health Importance	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	23.	Evaluation of watery eyes, Nasolacrimal duct blockage				Ophthalmology	
9:30-10:15	24.	Extropia				Ophthalmology	45 min
HOSPITAL WORK 10.30-12.00							
19-07-2025 Saturday							
8:00-8:45	25.	Research Epidemiology and Disease Control		Epidemiological methods (descriptive, analytical and experimental).	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	26.	Esotropia				Ophthalmology	45 min
9:30-10:15	27.					ENT	45 min
Hospital work 10.30-02.30							

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Lahore.



KEMU4TH YEAR MBBS 202
TIME TABLE OF 4TH YEAR MBBS (2024-25)
2nd Intermodule (10th July, 2025 to 19th July, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
10-07-2025	Thu	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
11-07-2025	Fri	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00 p.m.		
12-07-2025	Sat	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
14-07-2025	Mon	Community Medicine	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 02:30 p.m.		
15-07-2025	Tue	Community Medicine	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
16-07-2025	Wed	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30 p.m.		
17-07-2025	Thu	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
18-07-2025	Fri	Community Medicine	Ophthalmology	Ophthalmology	Hospital Work 10:30a.m. – 12:00 p.m.		
19-07-2025	Sat	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30 p.m.		

All lectures will be conducted in Maqbool Ahmad Block KEMU, Lahore.

DR. SAFEENA SARFRAZ,
 MODULE INCHARGE OF 4TH YEAR MBBS,
 Assistant Professor,
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 KEMU, Lahore.

PROF. DR. FAIZA BASHIR,
 Chairperson,
 Department of Pathology,
 King Edward Medical University,
 Lahore.



MODULE

Female & Male genital System

DURATION 18 DAYS (12-05-2025 to 24-05-2025)

CONTACT HOURS Lectures 39 =29.25 hours (1.7) + Practicals + Hospital stay = 27.2 Hours (0.4)

CREDIT HOURS 2.1

TEACHING METHODOLOGIES Lectures/ Practicals / small group discussion/clinics

OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of Etiology, Pathogenesis and Morphology of diseases related to male and female genital System. The interrelated clinical aspects of Medicine, Surgery/Urology, Oncology, Radiology and Gynecological problems will also be covered. By the end of the module, the students should be able to:

Discuss the Pathological and Clinical aspects of:

- Pelvic inflammatory disease
- Benign and malignant lesions of vulva, cervix, vagina , ovaries and uterus
- Gestational and Placental disorders
- Benign and malignant neoplasms of prostate
- Inflammatory and neoplastic lesions of testes
- Various related diagnostic & interventional techniques
- Radiological investigations

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
Monday 12-05-2025							
8.00-8.45	1.	Female genital tract introduction, Pelvic inflammatory disease		Anatomy of genital tract Etiology, Pathogenesis & Morphology of PID	Robbins & Cotrans	Pathology	45 min
8.45-9.30	2.	Vulval pathologies		Etiology, Pathogenesis & Morphology of Bartholian cyst, Non-neoplastic and neoplastic lesions	Robbins & Cotrans	Pathology	45 min
9.30-10.15	3.	PID		Presentation and management of PID		Gynecology	45 min
Hospital work 10.30-2.30							
Tuesday 13-05-2025							
8.00-8.45	4.	Vulval pathologies		Presentation and management of Benign and malignant of disease of vulva		Gynecology	45 min
8.45-9.30	5.	Inflammatory diseases of cervix		Etiology, Pathogenesis & Morphology of acute & chronic cervicitis, endocervical polyp		Pathology	45 min
9.30-10.15	6.	Vaginal Pathologies		Etiology, Pathogenesis & Morphology of pre-malignant and malignant lesions	Robbins & Cotrans	Pathology	45 min
Hospital work 10.30-11.45							
		PATHOLOGY PRACTICAL				Respective departments	12.00—2.30
Wednesday 14-05-2025							
8.00-8.45	7.	Vaginal Pathologies		Presentation and management of vaginal pathologies		Gynecology	45 min
8.45-9.30	8.	pre-malignant and malignant lesions of cervix		Etiology, Pathogenesis & Morphology of CIN, Squamous cell carcinoma	Robbins & Cotrans	Pathology	45 min
9.30-10.15	9.	Prevention and Early detection and treatment Cervical Cancers		Vaccination against HPV, screening guidelines, role of radiation therapy	Robbins & Cotrans	Oncology	45 min
Hospital work 10.30-2.30							
Thursday 15-05-2025							
8.00-8.45	10.	Cervical pathologies		Presentation and treatment of cervicitis + cervical polyp		Gynaecology	45 min
8.45-9.30	11.	Dating of Endometrium		Morphological changes during menstrual cycle		Gynaecology	45 min

9.30-10.15	12.	Functional endometrial disorders/Dysfunctional uterine bleeding		Pathogenesis and morphology of - Anovulatory cycle - Acute &chronic endometritis - Adenomyosis - Endometriosis		Pathology	45 min	
Hospital work 10.30-11.45								
		PATHOLOGY PRACTICAL					Respective departments	12.00—2.30
Friday 16-05-2025								
8.00-8.45	13.	Uterine pathologies		Presentation and management of adenomyosis + endometriosis		Gynaecology	45 min	
8.45-9.30	14.	Endometrial polyp and hyperplasia		Etiology, Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min	
9.30-10.15	15.	Laboratory diagnosis of various Gynaecological disorders		Interpretation of LH,FSH,LH:FSH, Testosterone	Robbins & Cotrans	Pathology	45 min	
Hospital work 10.30-12.00								
Saturday 17-05-2025								
8.00-8.45	16.	Endometrial pathologies		Presentation and management of endometrial polyps + hyperplasia		Gynaecology	45 min	
8.45-9.30	17	Endometrial carcinoma		Etiology, Pathogenesis & Morphology	Robbins &Cotrans	Pathology	45 min	
9.30-10.15	18.	Endometrial stromal tumors		Etiology, Pathogenesis & Morphology	Robbins &Cotrans	Pathology	45 min	
Hospital work 10.30-2.30								
Monday 19-05-2025								
8.00-8.45	19	Endometrial pathologies		Presentation and treatment of endometrial CA + fibroid		Gynaecology		
8.45-9.30	20.	Benign and Malignant tumors of myometrium		Etiology, Pathogenesis & Morphology	Robbins &Cotrans	Pathology	45 min	
9.30-10.15	21.	Evaluation of Genital Pathologies				Radiology	45 min	
Hospital work 10.30-2.30								

Tuesday 20-05-2025							
8.00-8.45	25.	Ovarian tumors PCOS		Presentation and management of ovarian tumors & PCOS		Gynecology	45 min
8.45-9.30	26.	Ovarian tumors		Classification & Frequency	Robbins & Cotrans	Pathology	45 min
9.30-10.15	27.	Surface epithelial tumors Follicular and Luteal Cyst		Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
Hospital work 10.30-12:00							
PATHOLOGY PRACTICAL						Respective departments	12.00—2.30
HOSPITAL WORK 10.30-2.30							
Wednesday 21-05-2025							
8.00-8.45	28.	Sex cord stromal and Germ cell tumors		Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
8.45-9.30	29.	Gestational and Placental disorders		Pathogenesis and Morphology of ectopic pregnancy and Gestational Trophoblastic Disease	Robbins & Cotrans	Pathology	45 min
9.30-10.15	30.	Germ Cell tumors		Staging, biomarkers and Management of Germ cell tumors in males and Females		Oncology	45 min
Hospital work 10.30-02.30							
Thursday 22-05-2025							
8.00-8.45	31.			Presentation and management of Ectopic + GTT		Gynaecology	45 min
8.45-9.30	32.	Inflammatory lesions of prostate and Benign prostatic hyperplasia		Pathogenesis and Morphology	Robbins & Cotrans	Pathology	45 min
9.30-10.15	33.	BPH clinical features and investigations				Urology	45 min
Hospital work 10.30-11.45							
		PATHOLOGY PRACTICAL				Respective departments	12.00—2.30
Friday 23-05-2025							
8.00-8.45	34.	Carcinoma of prosatate		Etiology, Pathogenesis , Morphology and Staging	Robbins & Cotrans	Pathology	45 min
8.45-9.30	35.	Carcinoma of prosatate				Surgery	45 min

9.30-10.15	36.	Carcinoma of prostate		Principals of Androgen Deprivation therapy (ADT) and management of Castration resistant Prostate cancer (CRPC)		Oncology	45 mins
Hospital work 10.30-11.45							
Saturday 24-05-2025							
8.00-8.45	37.	Neoplastic lesions of testes		Classification, Pathogenesis and Morphology	Robbins & Cotrans	Pathology	45 min
8.45-9.30	38.	Carcinoma Testes				Surgery	45 min
9.30-10.15	39.	Non-neoplastic lesions of testes		Pathogenesis and Morphology of congenital anomalies, inflammatory and vascular lesions of testes	Robbins & Cotrans	Pathology	45 min
Hospital work 10.30-2.30							

All lectures will be conducted in Maqbool Ahmad Block, KEMU, Lahore.

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TIME TABLE OF 4TH YEAR MBBS (2024-25)
Musculoskeletal System (11th August, 2025 to 30th August, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical	
11-08-2025	Mon	Orthopedics	Pathology	Radiology	Hospital Work 10:30a.m. – 02:30 p.m.			
12-08-2025	Tue	Medicine	Radiology	Orthopedics	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.	
13-08-2025	Wed	Medicine	Orthopedics	Pathology	Hospital Work 10:30a.m. – 12:00p.m.			
14-08-2025	Thu	HOLIDAY						
15-08-2025	Fri	Surgery	Radiology	Pathology	Hospital Work 10:30a.m. – 12:30 p.m.			
16-08-2025	Sat	Surgery	Medicine	Radiology	Hospital Work 10:30a.m. – 02:30 p.m.			
18-08-2025	Mon	Pathology	Orthopedics	Medicine	Hospital Work 10:30a.m. – 02:30p.m.			
19-08-2025	Tue	Orthopedics	Medicine	Radiology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.	
20-08-2025	Wed	Surgery	Medicine	Pathology	Hospital Work 10:30a.m. – 02:30 p.m.			
21-08-2025	Thu	Pathology	Orthopedics	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.	
22-08-2025	Fri	Pathology	Radiology	Surgery	Hospital Work 10:30a.m. – 12:30 p.m.			
23-08-2025	Sat	Oncology	Surgery	Orthopedics	Hospital Work 10:30a.m. – 02:30 p.m.			
25-08-2025	Mon	Orthopedics	Radiology	Surgery	Hospital Work 10:30a.m. – 02:30 p.m.			
26-08-2025	Tue	Medicine	Orthopedics	Radiology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.	
27-08-2025	Wed	Surgery	Medicine	Orthopedics	Hospital Work 10:30a.m. – 02:30 p.m.			
28-08-2025	Thu	Pathology	Surgery	Radiology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.	
29-08-2028	Fri	Medicine	Oncology	Orthopedics	Hospital Work 10:30a.m. – 12:30 p.m.			
30-08-2025	Sat	Oncology	Surgery	Radiology	Hospital Work 10:30a.m. – 02:30 p.m.			

All lectures will be conducted in Maqbool Ahmad Block/ KEMU, Lahore.

DR. SAFEENA SARFRAZ

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Chairperson
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TIME TABLE OF 4TH YEAR MBBS (2024-25)
4th Intermodule (1st September, 2025 to 20th September, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
01-09-2025	Mon	Behavioral Sciences	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
02-09-2025	Tue	Community Medicine	Ophthalmology	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
03-09-2025	Wed	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.		
04-09-2025	Thu	Behavioral Sciences	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
05-09-2025	Fri	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:30 p.m.		
06-09-2025	Sat	Holiday			Hospital Work 10:30a.m. – 02:30 p.m.		
08-09-2025	Mon	Community Medicine	Ophthalmology	Behavioral Sciences	Hospital Work 10:30a.m. – 02:30p.m.		
09-09-2025	Tue	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
10-09-2025	Wed	Behavioral Sciences	Community Medicine	Ophthalmology			
11-09-2025	Thu	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
12-09-2025	Fri	Community Medicine	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:30 p.m.		
13-09-2025	Sat	Ophthalmology	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:30 p.m.		
15-09-2025	Mon	ENT	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:30 p.m.		
16-09-2025	Tue	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
17-09-2025	Wed	Community Medicine	ENT	ENT	Hospital Work 10:30a.m. – 12:30 p.m.		

18-09-2025	Thu	ENT	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
19-09-2025	Fri	Pathology Test	Pathology Test	Pathology Test	Hospital Work 10:30a.m. – 12:30 p.m.		
20-09-2025	Sat	Community Medicine	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 12:30 p.m.		

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TIME TABLE OF 4TH YEAR MBBS (2024-25)
4th Intermodule (1st September, 2025 to 20th September, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
01-09-2025	Mon	Behavioral Sciences	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
02-09-2025	Tue	Community Medicine	Ophthalmology	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
03-09-2025	Wed	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.		
04-09-2025	Thu	Behavioral Sciences	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
05-09-2025	Fri	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:30 p.m.		
06-09-2025	Sat	Holiday			Hospital Work 10:30a.m. – 02:30 p.m.		
08-09-2025	Mon	Community Medicine	Ophthalmology	Behavioral Sciences	Hospital Work 10:30a.m. – 02:30p.m.		
09-09-2025	Tue	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
10-09-2025	Wed	Behavioral Sciences	Community Medicine	Ophthalmology			
11-09-2025	Thu	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
12-09-2025	Fri	Community Medicine	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:30 p.m.		
13-09-2025	Sat	Ophthalmology	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:30 p.m.		
15-09-2025	Mon	ENT	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:30 p.m.		
16-09-2025	Tue	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
17-09-2025	Wed	Community Medicine	ENT	ENT	Hospital Work 10:30a.m. – 12:30 p.m.		

18-09-2025	Thu	ENT	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
19-09-2025	Fri	Pathology Test	Pathology Test	Pathology Test	Hospital Work 10:30a.m. – 12:30 p.m.		
20-09-2025	Sat	Community Medicine	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 12:30 p.m.		

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TIME TABLE OF 4TH YEAR MBBS (2024-25)
Core Recall (22nd September, 2025 to 22nd October, 2025)

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
22-09-2025	Mon	Surgery	Surgery	Orthopedics	Hospital Work 10:30a.m. – 02:30 p.m.		
23-09-2025	Tue	Urology	Gynecology	Gynecology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
24-09-2025	Wed	Pathology	Pathology	Pathology	Hospital Work 10:30a.m. – 02:30 p.m.		
25-09-2025	Thu	ENT	ENT	Eye	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
26-09-2025	Fri	Community Medicine	Community Medicine	Eye	Hospital Work 10:30a.m. – 12:00 p.m.		
27-09-2025	Sat	Eye	Eye	ENT	Hospital Work 10:30a.m. – 02:30p.m		
29-09-2025	Mon	Radiology	Radiology	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
30-09-2025	Tue	Eye	Medicine	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
01-10-2025	Wed	Pathology	Pathology	Oncology	Hospital Work 10:30a.m. – 02:30p.m.		
02-10-2025	Thu	ENT	ENT	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
03-10-2025	Fri	Pathology	Pathology	Plastic Surgery	Hospital Work 10:30a.m. – 12:00 p.m.		
04-10-2025	Sat	Pathology	Pathology	Neurology	Hospital Work 10:30a.m. – 02:30p.m.		
06-10-2025	Mon	ENT	Eye	Community Medicine	Hospital Work 10:30a.m. – 02:30p.m.		
07-10-2025	Tue	Behavior Sciences	Nephology/ Medicine	Urology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
08-10-2025	Wed	Gynecology	Gynecology	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
09-10-2025	Thu	Oncology	Radiology	Pedes Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
10-10-2025	Fri	Psychiatry	Psychiatry	Pedes Medicine	Hospital Work 10:30a.m. – 12:00 p.m.		

11-10-2025	Sat	Community Medicine	Community Medicine	ENT	Hospital Work 10:30a.m. – 02:30p.m.		
13-10-2025	Mon	Medicine	Medicine	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
14-10-2025	Tue	Radiology	Oncology	Pedes Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
15-10-2025	Wed	Anesthesia	Behavior Sciences	Psychiatry	Hospital Work 10:30a.m. – 02:30p.m.		
16-10-2025	Thu	Surgery	Surgery	Neurology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
17-10-2025	Fri	Medicine	Surgery	Psychiatry	Hospital Work 10:30a.m. – 12:00 p.m.		
18-10-2025	Sat	Medicine	Pedes Medicine	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
20-10-2025	Mon	Psychiatry	Surgery	Radiology	Hospital Work 10:30a.m. – 02:30p.m.		
21-10-2025	Tue	Plastic Surgery	Orthopedics	Gynecology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
22-10-2025	Wed	Medicine	Nephrology	Urology	Hospital Work 10:30a.m. – 02:30p.m.		

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Core Recall, 2024-25

DURATION 27 DAYS (22-September, 2025 to 22nd October, 2025)

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

NOTE: Please cover the remaining syllabus in these lectures whatever is required.

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
22-09-2025 Monday							
8:00-8:45	1					Surgery	45 min
8:45-9:30	2					Surgery	45 min
9:30-10:15	3					Orthopedics	45 min
Hospital work					10.30-2.30		
23-09-2025 Tuesday							
8:00-8:45	4.					Urology	45 min
8:45-9:30	5.					Gynecology	45 min
9:30-10:15	6.					Gynecology	45 min
Hospital work					10.30-11.45		
		PRACTICAL		OVERVIEW PRACTICAL SMALL GROUP DISCUSSIONS		Respective departments	12.00—2.30

24-09-2025 Wednesday							
8:00-8:45	7.					Pathology	45 min
8:45-9:30	8.					Pathology	45 min
9:30-10:15	9.					Pathology	45 min
Hospital work				10.30-2.30			
25-09-2025 Thursday							
8:00-8:45	10.					ENT	45 min
8:45-9:30	11.					ENT	45 min
9:30-10:15	12.					Eye	45 min
Hospital work				10.30-11.45			
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
26-09-2025 Friday							
8:00-8:45	13.					Community Medicine	45 min
8:45-9:30	14					Community Medicine	45 min
9:30-10:15	15					Eye	45 min
HOSPITAL WORK 10.30-12.00							
27-09-2025 Saturday							
8:00-8:45	16.					Eye	45 min
8:45-9:30	17.					Eye	
9:30-10:15	18.					ENT	45 min
HOSPITAL WORK 10.30-2.30							

29-09-2025 Monday							
8:00-8:45	19					Radiology	45 min
8:45-9:30	20					Radiology	45 min
9:30-10:15	21					Surgery	45 min
Hospital work				10.30-2.30			
30-09-2025 Tuesday							
8:00-8:45	22.					Eye	45 min
8:45-9:30	23.					Medicine	45 min
9:30-10:15	24					Medicine	45 min
Hospital work				10.30-11.45			
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Respective departments	12.00—2.30
01-10-2025 Wednesday							
8:00-8:45	25.					Pathology	45 min
8:45-9:30	26.					Pathology	45 min
9:30-10:15	27.					Oncology	45 min
Hospital work				10.30-2.30			
02-10-2025 Thursday							
8:00-8:45	28.					ENT	45 min
8:45-9:30	29.					ENT	45 min
9:30-10:15	30.					Community Medicine	45 min
Hospital work				10.30-11.45			

		PRACTICAL		Community medicine		Respective departments	12.00—2.30
03-10-2025 Friday							
8:00-8:45	31.					Pathology	45 min
8:45-9:30	32					Pathology	45 min
9:30-10:15	33					Plastic Surgery	45 min
HOSPITAL WORK 10.30-12.00							
04-10-2025 Saturday							
8:00-8:45	34.					Pathology	45 min
8:45-9:30	35.					Pathology	45 min
9:30-10:15	36.					Neurology	45 min
HOSPITAL WORK 10.30-2.30							
06-10-2025							
8:00-8:45	37					ENT	45 min
8:45-9:30	38					Eye	45 min
9:30-10:15	39					Community Medicine	45 min
HOSPITAL WORK 10.30-2.30							
07-10-2025 Tuesday							
8:00-8:45	40					Behavior Sciences	45 min
8:45-9:30	41					Nephrology/ Medicine	45 min
9:30-10:15	42					Urology	45 min

HOSPITAL WORK 10.30-12.00							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
08-10-2025 Wednesday							
8:00-8:45	43					Gynecology	45 min
8:45-9:30	44					Gynecology	45 min
9:30-10:15	45					Surgery	45 min
HOSPITAL WORK 10.30-2.30							
09-10-2025 Thursday							
8:00-8:45	46					Oncology	45 min
8:45-9:30	47					Radiology	45 min
9:30-10:15	48					Pedes Medicine	45 min
HOSPITAL WORK 10.30-12.00							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
10-10-2025 Friday							
8:00-8:45	49					Psychiatry	45 min
8:45-9:30	50					Psychiatry	45 min
9:30-10:15	51					Pedes Medicine	45 min
HOSPITAL WORK 10.30-12.00							
11-10-2025 Saturday							
8:00-8:45	52					Community Medicine	45 min
8:45-9:30	53					Community Medicine	45 min

9:30-10:15	54					ENT	45 min
HOSPITAL WORK 10.30-2.30							
13-010-2025 Monday							
8:00-8:45	55					Medicine	45 min
8:45-9:30	56					Medicine	45 min
9:30-10:15	57					Surgery	45 min
HOSPITAL WORK 10.30-2.30							
14-10-2025 Tuesday							
8:00-8:45	58					Radiology	45 min
8:45-9:30	59					Oncology	45 min
9:30-10:15	60					Pedes Medicine	45 min
HOSPITAL WORK 10.30-12.00							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
15-10-2025 Wednesday							
8:00-8:45	61					Anesthesia	45 min
8:45-9:30	62					Behavioral Sciences	45 min
9:30-10:15	63					Psychiatry	45 min
HOSPITAL WORK 10.30-2.30							
16-10-2025 Thursday							
8:00-8:45	64					Surgery	45 min
8:45-9:30	65					Surgery	45 min
9:30-10:15	66					Neurology	45 min

HOSPITAL WORK 10.30-12.00							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
17-10-2025 Friday							
8:00-8:45	67					Medicine	45 min
8:45-9:30	68					Surgery	45 min
9:30-10:15	69					Psychiatry	45 min
HOSPITAL WORK 10.30-12.00							
18-10-2025 Saturday							
8:00-8:45	70					Medicine	45 min
8:45-9:30	71					Pedes Medicine	45 min
9:30-10:15	72					Surgery	45 min
HOSPITAL WORK 10.30-2.30							
20-10-2025 Monday							
8:00-8:45	73					Psychiatry	45 min
8:45-9:30	74					Surgery	45 min
9:30-10:15	75					Radiology	45 min
HOSPITAL WORK 10.30-2.30							
21-10-2025 Tuesday							
8:00-8:45	76					Plastic Surgery	45 min
8:45-9:30	77					Orthopedics	45 min
9:30-10:15	78					Gynecology	45 min
HOSPITAL WORK 10.30-12.00							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30

22-10-2025 Wednesday							
8:00-8:45	79					Medicine	45 min
8:45-9:30	80					Nephrology	45 min
9:30-10:15	81					Urology	45 min
HOSPITAL WORK 10.30-2.30							

All lectures will be conducted in Maqboold Ahmad Block, KEMU, Lahore.

DR. SAFEENA SARFRAZ

4th Year Module Incharge
Assistant Professor
Department of Pathology
King Edward Medical University,
Lahore

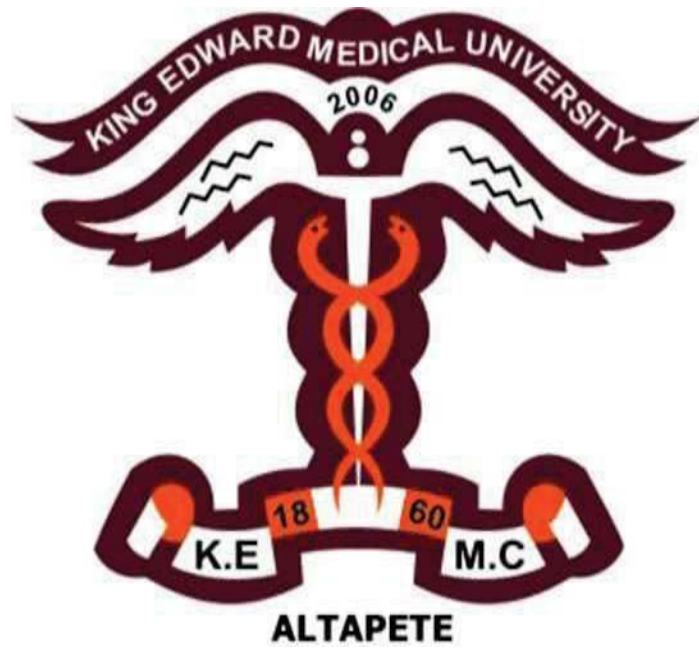
PROF. DR. FAIZA BASHIR

Chairperson
Department of Pathology
King Edward Medical University,
Lahore.

KEMU Curricular Map: A Competency-Based Framework

4TH YEAR MBBS Modular Integrated Framework

Period	Modules	Horizontal Integration	Skill component	Vertical Integration
January to March	Haematology (02-01-2025 to 03-02-2025) CVS (03-02-2025 to 15-02-2025) 1 st Intermodule (17-02-2025 to 01-03-2025) Respiratory (17-03-2025 to 14-04-2025)	Pathology Community Medicine Eye ENT Interactive Lecture SDL <u>VENUE:</u> Maqbool Ahmad Block	• Practical • Tutorial • Clinical ward/ Rotation	Medicine, Surgery, paed Anesthesia Chest Medicine Neurology Behaviour Sciences Interactive Lecture SDL <u>VENUE:</u> Maqbool Ahmad Block
Assessment written component (MCQ's & SEQ's)				
April to June	GIT & Hepatobiliary (04-04-2025 to 10-04-2025) Male & Female Genital Tract (12-05-2025 to 24-05-2025) Kidney (26-05-2025 to 07-06-2025) 2 nd Intermodule (07-06-2025 to 10-07-2025) CNS (19-07-2025 to 21-07-2025)	Pathology Community Medicine Eye ENT Interactive Lecture SDL <u>VENUE:</u> Maqbool Ahmad Block	• Practical • Tutorial • Clinical ward/ Rotation	Medicine, Surgery, paed Anesthesia Radiology Oncology Psychiatry Neurology Interactive Lecture SDL <u>VENUE:</u> Maqbool Ahmad Block
Assessment written component (MCQ's & SEQ's)				
July to October	3 rd intermodule (28-07-2025 to 09-08-2025) Musculoskeletal System (11-08-2025 to 30-08-2025) 4 th intermodule (01-09-2025 to 20-09-2025) Recall/ Revision (22-09-2025 to 22-10-2025)	Pathology Community Medicine Eye ENT Interactive Lecture SDL <u>VENUE:</u> Maqbool Ahmad Block	• Practical • Tutorial • Clinical ward/ Rotation	Medicine, Surgery, paed Anesthesia Radiology Oncology Psychiatry Neurology Orthopedics Behaviour Sciences Interactive Lecture SDL <u>VENUE:</u> Maqbool Ahmad Block
Assessment written component (MCQ's & SEQ's)				
November Preparation Leave four weeks				
December: Summative Assessment-Written Component + Structured Practical & Viva				



FINAL YEAR MBBS CURRICULUM

2025-26

VISION STATEMENT

The vision of King Edward Medical University is to be a renowned national and world-class academic institution, maintaining a leading role in medical education, innovative research, and the provision of international-standard healthcare services.

MISSION STATEMENT

King Edward Medical University will prepare health professionals in accordance with the highest professional standards to practice evidence-based medicine, maintain international quality of patient-centered care in the healthcare delivery system, and produce research scholars demonstrating excellence in knowledge, skills, and ethical values, empowered with community-oriented, self-directed learning and professional development.



01

Basic concepts for Infections / Perioperative Surgical care / Hematologic Disorders

Time duration :

5 weeks (weeks 1-5)

Date: 03-02-2025

Credit Hours

3.3

1	2	3	4	5
6	7	8	9	10
11		13	14	
16				
21				25
26	27	28		
31				
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52			

Medicine	Surgery	Peds	Gyne
19	12	06	11



Week 1/42

01

Time	Monday 03-02-25	Tuesday 04-02-24	Wednesday 05-02-25	Thursday 06-02-25	Friday 07-02-25	Saturday 08-02-25
Day	1	2		3	4	5
08.00 – 08:45	Meeting the faculty & Orientation to Surgery: Pre-operative management to prevent surgical site infections	Management of diabetic patient	KASHMIR DAY	Management of jaundiced patient	Basic definitions & Maternal morbidity and mortality indicators	Physiological Changes of pregnancy
	Surgery/01	Surgery/02		Surgery/03	(Gyne)/01	(Gyne)/02
8:45 – 09:30	Viral haemorrhagic fever. Ebola and Dengue	Tetanus		Pyrexia of unknown origin /Enteric Fever	Meeting the faculty & Orientation to Pediatrics; Health Statistics & Indicator	Immunization & EPI
Break	Medicine/01	Medicine/02		Medicine/03	Peds01	Peds/02
Clinical Work						
Final Year MBBS Curriculum / Time Table						



Week 2/42- Final draft

01

Time	Monday 10-02-25	Tuesday 11-02-25	Wednesday 12-02-25	Thursday 13-02-25	Friday 14-02-25	Saturday 15-02-25
Day	6	7	8	9	10	11
08.00 – 08:45	Management of patient in shock	TPN/ Central line placement and Care	Acute management of wounds (Plastic Surgery)	Care in operating Room/ WHO checklist	Pre-pregnancy counselling & Antenatal Care	Prenatal diagnosis of congenital malformations
	Surgery/04	Surg05	Plastic Surgery /01	Surg 06	Obs& Gyne/03	Obs & Gyne 04
8:45 – 09:30	Liver Abscesses	Pulmonary TB	HIV	Sodium abnormalities	Potassium & Calcium abnormalities	Bacterial and Mycobacterial infections
	Medicine 04	Pulmn/ 01/05	Medicine/06	Med/07	Med/08	(Derma01/09
Break						
Clinical Work						
Final Year MBBS Curriculum / Time Table						Page 3-7



Week 3/42

01

Time	Monday 17-02-25	Tuesday 18-02-25	Wednesday 19-02-25	Thursday 20-02-25	Friday 21-02-25	Saturday 22-02-25
Day	12	13	14	15	16	17
08.00– 08:45	Nutritional requirement & Modes of feeding	Postoperative care	Day Care Surgery- Principles	ERAS (Enhanced Recovery after Surgery)	Prenatal assessment of fetal wellbeing	Anaemia in pregnancy
	Surg 07	Surg08	Surg09	Surg10	Obs & Gyne/05	Obs & Gyne/06
08:45 – 9:30	Analgesia and pain relief (Anesthesia)	Acid Base balance-1	Acid – Base 2 Balance	Thrombophilia	Diphtheria/Pertussis/Tetanus-III	Menstrual cycle and premenstrual syndrome/ Dysmenorrhea
	Anes01	Med/09	Med/10	Med/11	(Pediatrics/03)	Obs& Gyne/07
Break						
Clinical Work						
Final Year MBBS Curriculum / Time Table						Page 4-7



Week 4/42

01

Time	Monday 24-02-25	Tuesday 25-02-25	Wednesday 26-02-25	Thursday 27-02-25	Friday 28-02-25	Saturday 01-03-25
Day	18	19	20	21	22	23
08.00– 08:45	Pre-operative preparation for surgery (Anesthesia)	Malaria	Surgical Management of vascular malformations (Plastic Surgery)	Types of wounds, Drains & Dressings (Plastic Surgery)	Abnormal uterine bleeding	Pelvic inflammatory disease
	Anes02	Medicine/13	Plastic Surgery -02	Plastic Surgery -02	Obs& Gyne/08	Obs& Gyne/09
08:45 – 9:30	Disseminated intravascular coagulation (DIC)	Platelet abnormalities	Vascular lesions of skin / hematological cut. Manifestation	Meningitis	Leptospirosis. Brucellosis Toxoplasmosis	Anatomy, Physiology, of Skin related to Clinical Dermatology
	Med/12	Med/014	(Derma02)	Med/15	Medicine/16	Derma02/
Break						
Clinical Work						



Week 5/42

01

	Monday 03-03-25	Tuesday 04-03-25	Wednesday 05-03-25	Thursday 06-03-25	Friday 07-03-25	Saturday 08-03-25
Day	24	25	26	27	28	29
08.00– 08:45	Blood transfusion	Blood products and their indications + ERAS	Renal involvement in systemic disease	Lichen planus Psoriasis	Infections in pregnancy	Thyroid disorder in pregnancy / Epilepsy in pregnancy
	Surg 011	Surgery 12	Med/019	(Derma/03	Obs& Gyne/10	Obs& Gyne/011
08:45 – 9:30	Extrapulmonary TB. Multi-drug-resistant tuberculosis (MDR-TB)	Pneumonia	AFP/Poliomyelitis	Measles/Rubella-IV (Pediatrics)	Mumps/Chicken Pox-V (Pediatrics)	Tuberculosis in children
	Pulm/02/m17	Pulm/03/m18	(Pediatrics/05	(Pediatrics06	(Pediatrics/03	(Pediatrics/04
Break						
Clinical Work						



01

Time	Monday 10-03-25	Tuesday 11-03-25	Wednesday 12-03-25	Thursday 13-03-25	Friday 14-03-25	Saturday 15-03-25
Day	30	31				
08.00– 08:45	END OF MODULE 1					
08:45 – 9:30						
Break						
Clinical Work						

Final Year MBBS Curriculum / Time Table

Page 7-7

02

Cardiovascular System and Related Diseases

Time duration :

4 weeks (weeks 6-9)

Starting date 10-03-2025

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52			

Medicine	Surgery	Peds	Gyne
26	10	03	08

Week 6/42

02

Time	Monday 10-03-25	Tuesday (11/3/25)	Wednesday (12/3/25)	Thursday (13/3/25)	Friday (14/3/25)	Saturday (15/3/25)
Day	1	2	3	4	5	6
8:00 – 8:45	Normal ECG interpretation	Pericardial diseases	Bradyarrhythmias	Interventional Cardiology	Heart diseases in pregnancy	Hypertension in pregnancy
	Card01/M25/ CVS 02	Card02/M27/ CVS 04	Card03/M29/ CVS 06	Card04/M31/ CVS 08	Obs& Gyne/012/ CVS09	Obs& Gyne/013/ CVS11
8:45 – 9:30	Patho-Physiological of Symptoms related to CARDIOVASCULAR SYSTEM	Cardiac Failure 1	Cardiac failure 2	Ischemic heart disease 1	Infestations: Scabies, Pediculosis	Congenital heart diseases- Acyanotic-I
	Med/026/ CVS01	Med/028/ CVS03	Med/30/ CVS05	Med/032/ CVS07	(Derma05/m33/ CVS10)	(Pediatrics/007/ cvs12)
Break						

Week 7/42

02

Time	Monday (17/3/25)	Tuesday (18/3/25)	Wednesday (19/3/25)	Thursday (20/3/25)	Friday (21/3/25)	Saturday (22/3/25)
Day	1	2	3	4	5	6
8:00 – 8:45	NON-INVASIVE RADIOLOGICAL INVESTIGATION	ACUTE LIMB ISCHEMIA	Abdominal Aorta aneurysms	Thromboembolis m – management	Fetal distress & IUD Gynecology	Venous thrombosis and pulmonary embolism Gynecology
	(Rad01/Surg19/cv s14	Surg/020/CVS16	Surg/021/CVS18	Surg/022/CVS20	Obs& Gyne/014/CVS21	Obs& Gyne/015/CVS23
8:45 – 9:30	Ischemic Heart Disease II	Hypertension I	Hypertension II	Valvular Heart disease -	Acne vulgaris.	Congenital heart diseases-cyanotic- II
Break	Med/034/CVS13	Med/035/CVS15	Med/036/CVS17	Med/037/CVS19	Derm06/M038/CV S22	(Pediatrics/008/cv s24)
Clinical Work					Panic disorders	



Week 06/42

02

	Monday 24-03-2025	Tuesday 25-03-2025	Wednesday 26-03-2025	Thursday 27-03-2025	Friday 28-03-2025	Saturday 29-03-2025
Day	13	14	15	16		
8:00 – 8:45	Cardiomyopathy Med/034	Chronic Limb Ischemic Surgery /19	Amputations (lower limbs) Surg/20/ CVS31	Varicose Veins Surgery/21/ CVS40	Holiday of Annual Sports Day & Convocation 2025	
8:45 – 9:30	Valvular heart disease III Med/035	Infective endocarditis Med/036	Heart Failure Med/037	Panic disorders Psych 01/Med038		
Break						
Clinical Work						



Week 07/42

02

Time	Monday 31-03-2025	Tuesday 01-04-2025	Wednesday 02-04-2025	Thursday 03-04-2025	Friday 04-04-2025	Saturday 05-04-2025
Day						
8:00 – 8:45	EID-UL-FITAR/ SPRING VACATIONS					
8:45 – 9:30						
Break						
Clinical Work						



Week 08/42

02

Time	Monday 07-04-2025	Tuesday 08-04-2025	Wednesday 09-04-2025	Thursday 10-04-2025	Friday 11-04-2025	Saturday 12-04-2025
Day			17	18	19	20
8:00 – 8:45	SPRING VACATIONS		Thromboembolism approach and management	Lymphedema (Plastic Surgery)	Third stage of labour and its complications	Holiday of Mela Chiraghan
			Surgery/22/CVS42	P.Surg03/011/CVS44	Obs& Gyne/19/CVS36	
8:45 – 9:30			Pericardial diseases/ pericarditis	Myocarditis	Common acquired Heart Disease (Rheumatic fever-III)	
			Card02/M041/CVS04	Med/042	(Pediatrics/09/cvs36)	
Break						
Clinical Work						

Module



GASTROINTESTINAL TRACT

3

STARTING DATE: 19-04-2025

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52			

Medicine	Surgery	Peds	Gynae
17	26	03	08



Week 09/42

03

Time	Monday 14-04-2025	Tuesday 15-04-2025	Wednesday 16-04-2025	Thursday 17-04-2025	Friday 18-04-2025	Saturday 19-04-2025
Day	END OF MODULE 2nd					1
8:00 – 8:45						Benign disease of uterus
						Obs&Gyn/20/GIT
8:45 – 9:30						Alcoholism
						PSY-02Md046/GIT22
Break						
Clinical Work						
						Page2-8



Week 10/42

03

Time	Monday 21-04-2025	Tuesday 22-04-2025	Wednesday 23-04-2025	Thursday 24-04-2025	Friday 25-04-2025	Saturday 26-04-2025
Day	2	3	4	5	6	7
8:00 – 8:45	Overview and diagnostic approach to patients of GIT disorders	CA Esophagus	Gastric outlet obstruction And its surgical management	Abdominal Tuberculosis (Obstruction / Perforation)	Pre malignant and Malignant disease of uterus	Benign & Preinvasive disease of cervix Principles of cervical cytology and colposcopy
	Surg25/GIT03	Surg26/GIT14	Surg27/GIT16	Surgery 28/ GIT	Obs&Gyn/21/	Obs&Gyn/22/GIT45
8:45 – 9:30	Approach to a patient with gastrointestinal diseases	Schizophrenia.	Acute/ Chronic Gastritis Med/ GE	Abdominal Tuberculosis Med/ GE	Chronic Diarrhoea (Malabsorption, Celiac Disease)	Pyloric stenosis / tracheoesophageal fistula
	Med47/GIT13	Psy03/med048/GIT	Med49/GIT15	Med50/GIT05	Pediatrics/027/GIT	PedsSurg29/GIT60
Break						
Clinical Work						
						Page3-8



Week 11/42

03

Time	Monday 28-04-2025	Tuesday 29-04-2025	Wednesday 30-04-2025	Thursday 01-05-2025	Friday 02-05-2025	Saturday 03-05-2025
Day	8	9	10		11	12
8:00 – 8:45	Surgical Management of Peptic ulcers	Salivary gland diseases (parotid/ submandibular)	Mesothelial & carcinoid tumour, Carcinoma peritonei	Holiday of 1st May 2025 Labor Day	Malignant disease of cervix	Benign disease of ovary
	Surg29/GIT18	Surg30/GIT03	Surg31/GIT27		Obs&Gyn/23/GIT	Obs&Gyn/24/GIT
8:45 – 9:30	Complications of APD	Malabsorption syndromes	Inflammatory Bowel disease GE/ Med		Obsessive Compulsive Disorders	Addiction
	Med51GIT17	Med52/GIT15	Med53/GIT28		PSY04/Med54/GIT	PSY_05/Med55/GIT
Break						
Clinical Work						Page4-8



Time	Monday 05-05-2025	Tuesday 06-05-2025	Wednesday 07-05-2025	Thursday 08-05-2025	Friday 09-05-2025	Saturday 10-05-2025
Day	13	14	15	16	17	18
8:00 – 8:45	Carcinoma Stomach	Hiatal & Diaphragmatic Hernias	Surgical management of ulcerative colitis and crohn's disease	Management of sigmoid volvulus & Diverticulitis	Holiday of War Emergency	
	Surg32GIT20	Surg33/GIT29	Surg34/GIT31	Surg35/GIT42		
8:45 – 9:30	Neonatal intestinal obstruction.	Bleeding Per rectum in children.	Inflammatory Bowel Syndrome	Constipation		
	PeadsSurg026/GIT19	Peds surg25/GIT36	Med56/GIT32	Med57/GIT37		
Break					*Lectures shifted to 23-05-2025 and 24-05-2025	
Clinical Work						

Page 5-8

Final Year MBBS Curriculum /Time Tabel



Week 13/42

03

Time	Monday 12-05-2025	Tuesday 13-05-2025	Wednesday 14-05-2025	Thursday 15-05-2025	Friday 16-05-2025	Saturday 17-05-2025
Day	19	20	21	22	23	24
8:00 – 8:45	Management of Enterocutaneous fistula	Bleeding per rectum (hemorrhoids and Fissure)	Groin Hernias- Management & Surgery	Carcinoma colon (work up & staging)	Carcinoma Rectum (workup & Staging)	Multiple gestation
	Surg36/GIT43	Surg37/GIT44	Surg38GIT49	Surg39/GIT52	Surg41GIT51	Obs&Gyn/27/GIT
8:45 – 9:30	Somatoform Disorders	Diverticulitis	Management of Diaphragmatic Hernias	Carcinoma Colon (surgical Management)	Carcinoma Rectum (Surgical management)	Micronutrient Deficiencies (Rickets)IDA, Vitamin A Deficiency, Iodine Deficiency
	Psy07/Med59/GIT	Med59/GIT41	PedsSurg GIT49	Surg40/GIT50	Surg42/GIT53	Peadiatrics /GI148
Break						
Clinical Work						Page 6-8



Week 14/42

03

Time	Monday 19-05-2025	Tuesday 20-05-2025	Wednesday 21-05-2025	Thursday 22-05-2025	Friday 23-05-2025	Saturday 24-05-2025
Day	25	26	27	28		
8:00 – 8:45	Role of chemo-radiotherapy in management of Colorectal Cancer Oncological Aspects of Surgery	Rectal Prolapse-Surgical Management	Acute appendicitis	Perianal fistula and sinuses	Malignant disease of ovary	Diseases of vulva
	Surg43/GIT54	Surg44/GIT56	Surg45/GIT08	Surg46/GIT55	Obs&Gyn/25/GIT	Obs&Gyn/26/GIT
8:45 – 9:30	GERD	Congenital GI defects (pediatrics surgery)	Dysphagia	Operative Surgery for Diaphragmatic Hernias	Acute Diarrhoea & Dehydration (ORT)	Generalized anxiety disorders
	Med60/GIT41	PedsSurg/GIT60	Med61/GIT	Ped. Surg GIT49	Pediatrics /GIT	PSY06/Med58/GIT
Break						*Lectures shifted from 09-05-2025 and 10-05-2025
Clinical Work						Page7-8



Week 15/42

03

Time	Monday 26-05-2025	Tuesday 27-05-2025	Wednesday 28-05-2025	Thursday 29-05-2025	Friday 30-05-2025	Saturday 31-05-2025
Day	25	26	27	28		
8:00 – 8:45	End of 3rd Module					
8:45 – 9:30						
Break						
Clinical Work						Page8-8



CNS/ Respiratory & HaemOnc (Intermodule 1)

4

Time duration : 3 weeks (weeks 15 – 18)

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52			

Starting Date: 26-05-2025

Medicine	Surgery	Peds	Gyne
21	08	04	-



Week 15/42

04

Time	Monday 26-05-2025	Tuesday 27-05-2025	Wednesday 28-05-2025	Thursday 29-05-2025	Friday 30-05-2025	Saturday 31-05-2025
Day	1	2		3	4	5
8:00 – 8:45	Epilepsy	Movement disorders and gait. Parkinsonism	Holiday of Youm-e- Takbir	Soft tissue sarcoma	Bronchial Asthma	Smoking and Lungs
	CNS01/M049/IM01	CNS02/M051/IM03		Surg047/IM22	Pulm02/M055/IM07	Pulm01/M054/IM06
8:45 – 9:30	Acute myeloid leukemia (AML)	Acute lymphoblastic leukemia (ALL)		Approach to Patient with Headache	Pneumothorax	Respiratory Infections in Children (Bronchiolitis, Pneumonia, Croup)
	Haem01/M050/IM02	Haem02/M052/IM04		CNS09/M070/IM22	Chest surgery 01/13	Pediatrics/05
			* Lecture Shifted to 05-06-2025			
Clinical Work						



Week 16/42

04

Time	Monday 02-06-2025	Tuesday 03-06-2025	Wednesday 04-06-2025	Thursday 05-06-2025	Friday 06-06-2025	Saturday 07-06-2025
Day	6	7	8	9		
8:00 – 8:45	MND and other anterior Horn Cell disorder	Lymphoma	Chronic Obstructive Pulmonary Disease (COPD)	* Demyelinating disorder. Multiple Sclerosis/ADEM	Eid- ul-Adha Holidays (06-06-2025 to 09-06-2025)	
	CNS04/M057/IM092	/Surg049	Pulm03/M056/IM 08	CNS03/M053/IM05		
8:45 – 9:30	Chronic lymphocytic leukemia (CLL)	Chronic myelogenous leukemia (CML)	Interstitial Lung Disease	*Cerebral Palsy & Mental Retardation		
	Haem04/M060/IM12	Haem03/M058/IM1	Pulm04/M063/IM15	Pediatrics/04		
				* Lecture Shifted from 28-05-2025		
Clinical Work						



Week 17/42

04

Time	Monday 09-06-2025					
Day						
8:00 – 8:45	Eid- ul- Adha Holidays (06-06-2025 to 09-06- 2025)	Summer Vacations From 10-06-2025 to 09-07-2025 (Notification from Registrar Office, No. 1564/REG dated 02-06-2025)				
8:45 – 9:30						
Clinical Work						



Week 17/42

04

Time	Monday 07-07-2025	Tuesday 08-07-2024	Wednesday 09-07-2025	Thursday 10-07-2025	Friday 11-07-2025	Saturday 12-07-2025
Day				10	11	12
8:00 – 8:45	Summer Vacations From 10-06-2025 to 09-07-2025 (Notification from Registrar Office, No. 1564/REG dated 02-06-2025)			Principles of oncology & Operative Surgery	Bronchogenic carcinoma	Peripheral nerve disease and Polyneuropathy GBS/CIDP GBS
				Surg050	Pulm05/M065/IM17	CNS05/M059/IM11
8:45 – 9:30				Chest Trauma & Thoracotomies	Febrile Fits & Epilepsy	Plasma Cell Dyscrasias
				Chest surgery 02/13	Pediatrics/006/IM14	Haem05/M062/IM14
Clinical Work						
			Final Year MBBS Curriculum / Time Table			Page 5-7



Week 18/42

04

Time	Monday 14-07-2025	Tuesday 15-07-2025	Wednesday 16-07-2025	Thursday 17-07-2025	Friday 18-07-2025	Saturday 19-07-2025
Day	13	14	15	16	17	18
8:00 – 8:45	Pulmonary vascular disease: Pulmonary HTN	Clinical features and Diagnosis of Ischemic Stroke/TIA	Occupational Lung Disease	Surgical Management of Carotids with stenosis	Inherited coagulation disorders: Haemophilia. Von Willebrand's disease (VWD).	Immune thrombocytopenic purpura (ITP). Thrombocytosis.
	Haem06/M066/IM17	CNS07/M080/IM19	Pulm06/M064/IM16	Surg052	Haem08/M071/IM23	Haem07/M069/IM21
8:45 – 9:30	Management of Ischemic Stroke/TIA	Behaviour Problems (ADHD, Autism	Neuromuscular junction disorder. Myopathies Myasthenia Gravis/Muscular Dystrophies.	Bleeding disorders in children	Mediastinal Masses Lobectomies & Lung Resections	Surgery Assessment
	CNS08/M090/IM20	Pediatrics/007/	CNS06/M061/IM13	Pediatrics/008	Chest surgery 3/13	Surgery
Clinical Work						



Week 18/42

04

Time	Monday 21-07-2025	Tuesday 22-07-2025	Wednesday 23-07-2025	Thursday 24-07-2025	Friday 25-07-2025	Saturday 26-07-2025
Day						
8:00 – 8:45	End of 4th Module					
8:45 – 9:30						
Clinical Work						



Acute Care & Trauma

5

Time duration : 5 weeks (weeks 15 – 19)

STARTING DATE:

21-07-2025

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52			

Medicine	Surgery	Peds	Gyne
19	26	04	08



Week 19/42

05

Time	Monday 21-07-2025	Tuesday 22-07-2025	Wednesday 23-07-2025	Thursday 24-07-2025	Friday 25-07-2025	Saturday 26-07-2025
Day	1	2	3	4	5	6
8:00 – 8:45	Principles of disaster Surgery	Airway & breathing with Thoracic injuries Resuscitation (Anesthesia)	Primary & Secondary Survey for trauma victims	Concept of Triage & pre-hospital preparedness/ Transfer	Ante-partum hemorrhage	Ectopic pregnancy
	Surg049	Anesthesia /S04	Surg050	Surgery051	Obs&Gyne/021	Obs&Gyn/022
8:45 – 9:30	Non-traumatic shock (Cardiogenic/ Neurogenic shock)	ABG's interpretation	Type I & II respiratory failure	Shock & Anaphylaxis	Disorders of nails	Common Neonatal Problems-1 (Prematurity, LBW Metabolic problems etc)
	Med/073	Med/072	Med/074	Pediatrics/017	Derm09	Pediatrics/018
Break						
Clinical Work						



Week 20/42

05

Time	Monday 28-07-2025	Tuesday 29-07-2025	Wednesday 30-07-2025	Thursday 31-07-2025	Friday 01-08-2025	Saturday 02-08-2025
Day	7	8	9	10	11	12
8:00 – 8:45	Acute abdomen	Head injuries (Neurosurgery)	Cervical spine injuries and their management (Neurosurgery)	Burns-1 (Plastic Surgery)	Miscarriages	Gestational trophoblastic disease
	Surg52/	Neurosurgery 01/	neurosurgery02/	P.S_07	Obs&Gyn/023	Obs&Gyn/024
8:45 – 9:30	Sepsis/ Septic Shock	Neurological deficit & GCS	Trauma in paediatric	Acute abdomen	Class Assessment	Burns-2 (Plastic Surgery)
	Med/076	Med/077	Ped.surg01/	Ped.surg02	Pediatrics	P.S._08/
Break						
Clinical Work						



Week 21/42

05

Time	Monday 04-08-2025	Tuesday 05-08-2025	Wednesday 06-08-2025	Thursday 07-08-2025	Friday 08-08-2025	Saturday 09-08-2025
Day	13	14	15	16	17	18
8:00 – 8:45	Abdominal Injuries	Squamous Cell Carcinoma (Plastic Surgery)	Hepatobiliary injuries	Maxillofacial Trauma and its management (Oral and Maxillofacial)	Cephalic malpositions	Non-cephalic malpositions
	Surg52	P.S_08/	Surg53	OMF-1	Obs&Gyn/025/	Obs&Gyn/026/
8:45 – 9:30	Acute Psychosis	Comatose Patient	Diabetes Mellitus. Hypoglycemia.	Diabetes Mellitus Emergencies HONC/DKA/ Hyperosmolar state	Common Neonatal Problems-I (Prematurity, LBW Metabolic problems etc)	Oncological Emergencies: Superior Vena Cava Syndrome. (Oncology)
	SPY-01	Med78	Med-79	Med/80	Pediatrics/018	Onc01
Break						
Clinical Work						



Week 22/42

05

Time	Monday 11-08-2025	Tuesday 12-08-2025	Wednesday 13-08-2025	Thursday 14-08-2025	Friday 15-08-2025	Saturday 16-08-2025
Day	19	20	21	22	23	24
8:00 – 8:45	Shock & Its management	Plastic and Reconstructive Surgery (Plastic Surgery)	Management of Intestinal Obstruction	14 August Holiday Jashn-e-Azadi	Holiday of Urs Hazrat Usman Ali Hajveri (RA)	Fetal distress, Intra-uterine fetal demise & Intra-uterine growth restriction
	Surg54/	P.S/09	Surg055/			Obs&Gyn/028
8:45 – 9:30	Management of Upper GI bleed Med/ GE	Psychic Traumatic disorders	Acute respiratory distress syndrome (ARDS)			Class Assessment
	Med084/	PSY02	Pulm 09/			Obs&Gyn
Break					*Lecture shifter to 26-08-2025	
Clinical Work						

Final Year MBBS Curriculum/ Time Table



Week 23/42

05

Time	Monday 18-08-2025	Tuesday 19-08-2025	Wednesday 20-08-2025	Thursday 21-08-2025	Friday 22-08-2025	Saturday 23-08-2025
Day	25	26	27	28	29	
8:00 – 8:45	Management of Obstructed Hernias	Pelvic Injuries	Genitourinary Injuries	Management of Appendicitis and its complications	Management of Hollow viscus perforation	Class Assessment
	Surg057/	Ortho-1	Surgery/58	Surgery/59	Surg60	Surgery 61
8:45 – 9:30	Tumour Lysis Syndrome. SIADH. (Oncology)	Acute Kidney Injury	Disorders of Hairs	Basal Cell Carcinoma (Plastic Surgery)	Management of Lower GI Bleed Med/GE	Extremity Trauma
	Onc02/	Neph02	Derma10	P.S/10	Med085	Ortho-2
Break						
Clinical Work		Final Year MBBS Curriculum/ Time Table				Page 6-7



Week 24/42

05

Time	Monday 25-08-2025	Tuesday 26-08-2025	Wednesday 27-08-2025	Thursday 29-08-2025	Friday 30-08-2025	Saturday 31-08-2025
Day	25	26	27	28	29	
8:00 – 8:45	Malignant Melanoma (Plastic Surgery)	Puerperium	End of Module 5			
	P.S_11	Obs&Gyn/027/				
8:45 – 9:30	Class Assessment	Phobic disorders				
	Medicine	PSY03/				
Break		*Lecture shifter from 15-08-2025				
Clinical Work		Final Year MBBS Curriculum/	Time Table			Page 7-7



6

HEPATOBIILIARY & PANCREAS

Time duration : 4 weeks (weeks)

**Starting Date:
(27-08-2025)**

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52			

Medicine	Surgery	Peads	Gynae	Radiology
18	21	06	11	02



Week 24/42

06

Time	Monday	Tuesday	Wednesday 27-08-2025	Thursday 28-08-2025	Friday 29-08-2025	Saturday 30-08-2025
Day			1	2	3	4
8:00 – 8:45	END OF MODULE 5		Surgical anatomy Clinical Physiology & investigation of Hepatobiliary system	Carcinoma Gall Bladder (Surgery)	Jaundice in pregnancy and its management / obstetric cholestasis	Preterm labour
			Surg114/HPB01	Surg115/HPB13	Obs&Gyn/047/H PB11	Obs&Gyn/048/HPB 11
8:45 – 9:30			Acute hepatitis	Surgical Care of Jaundice in Children	Clinical Physiology of Hepatobiliary System	Approach to patient with Jaundice
			Med125/HPB08	Peads Surgery HPB36	Pediatrics/114/H PB12	Med126/HPB07
Break						
Clinical Work						



Week 25/42

06

Time	Monday 01-09-2025	Tuesday 02-09-2025	Wednesday 03-09-2025	Thursday 04-09-2025	Friday 05-09-2025	Saturday 06-09-2025
Day	5	6	7	8	9	10
8:00 – 8:45	Management of Gall stone disease	Diseases of extrahepatic biliary apparatus (CBD stones choledochal Cyst)	Cholangio-carcinoma	Surgical causes of Jaundice/ Obstructive Jaundice	Amniotic fluid and its abnormalities	Eid Mailad un-Nabi
	Surg116/HPB26	Surg117/HPB28	Surg118/HPB32	Surg119/HPB13	Obs&Gyn/049 /HPB11	
8:45 – 9:30	Jaundice pre & post hepatic jaundice	Complications & Management of pre & post hepatic jaundice	Portal hypertension 1	Portal hypertension 2 & Hepatic encephalopathy	Prolonged Pregnancy	
	Med127/HPB07	Med128/HPB27	Med129/HPB29	Med130/HPB29	Obs&Gyn/51/ HPB11	
Break						
Clinical Work						



Week 26/42

06

Time	Monday 08-09-2025	Tuesday 09-09-2025	Wednesday 10-09-2025	Thursday 11-09-2025	Friday 12-09-2025	Saturday 13-09-2025
Day	11	12	13	14	15	16
8:00 – 8:45	Portocaval Shunts	Acute pancreatitis	Complications & management of acute pancreatitis	Chronic pancreatitis	Medical Disorders in Pregnancy , Renal diseases and Autoimmune disorders	Fetomaternal blood group incompatibility
	Surg120/HPB44	Surg121/HPB38	Surg122/HPB40	Surg123/HPB41	Obs&Gyn/050/HP B11	Obs&Gyn/052/HP B33
8:45 – 9:30	NAFLD	Wilson/haemochromatosis/ Autoimmune hepatitis	Chronic hepatitis B & D	Chronic hepatitis C	Common childhood malignancies	Imaging techniques for hepatobiliary system/ Abdomen-1 (Radiology)
	Med131/HPB31	Med132/HPB37	Med133/HPB15	Med134/HPB17	Pediatrics/034/HPB24	RAD129/HPB06
Break						
Clinical Work						



Week 27/42

06

	Monday 15-09-2025	Tuesday 16-09-2025	Wednesday 17-09-2025	Thursday 18-09-2025	Friday 19-09-2025	Saturday 20-09-2025
Day	17	18	19	20	21	22
8:00 – 8:45	Management of complications of Hepatobiliary Surgery	Cystic swelling of Liver and their management cysts/ abscess/ vascular lesions	CA pancreas	Procedures for pancreatic mass and palliation	Recurrent miscarriages	Induction and augmentation of labour
	Surg124/HPB43	Surg125/HPB30	Surg126/HPB04	Surg127/HPB20	Obs&Gyn/053/HP B35	Obs&Gyn/053/HPB35
8:45 – 9:30	Liver Abscess	Malnutrition	Acute Liver Disease/Fulminant Hepatic Failure	Hemolytic anemias in children (Thalassemia)	Hepatocellular Carcinoma	Neonatology
	Med135/HPB02	Pediatrics	Med136/HPB03	Pediatrics/028/HPB05	Medicine	Obs&Gyn/054/HPB35
Break						
Clinical Work						



Week 28/42

06

Time	Monday 22-09-2025	Tuesday 23-09-2025	Wednesday 24-09-2025	Thursday 25-09-2025	Friday	Saturday
Day	23	24	25	26	End of Module of 6 th	
8:00 – 8:45	Medicine Class Test	Benign and malignant tumours of liver (Perioperative care/resections) Liver resections & Transplantation	Surgery Class Assessment	Gynaecological infections of upper and lower genital tract		
	Med137/HPB19	Surg128/HPB46	Surgery	Obs&Gyn/054/HPB35		
8:45 – 9:30	Gynecology Class Assessment	Imaging techniques for hepatobiliary system/ Abdomen-2 (Radiology)	Neonatal Cholestasis	Pediatric Class Test		
	Gynecology	RAD129/HPB06	Pediatrics/033/ HPB22	Pediatrics/116/ HPB36		
Break						
Clinical Work						



7

Endocrine & Breast Disease

Time duration : 5 weeks (weeks)

**Starting Date:
(26-09-2025)**

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52			

Medicine	Surgery	Peds	Gyne
22	28	04	15



Week 28/42- Hypothalamus & Pituitary

07

Time	Monday 22-09-2025	Tuesday 23-09-2025	Wednesday 34-09-2025	Thursday 25-09-2025	Friday 26-09-2025	Saturday 27-09-2025
Day					1	2
8:00 – 8:45	END OF MODULE 6TH				Diabetes in pregnancy	Adolescence/ Normal and delayed Puberty and precocious puberty
					Obs&Gyn/038	Obs&Gyn/029
8:45 – 9:30					Over view of surgical skills for common endocrine problems	Cushing syndrome
					Peds surg/surg089	Med064
Break						
Clinical Work		Final Year MBBS Curriculum / Time Table				Page 2-7



Week 29/42 – Thyroid Diseases

07

Time	Monday 29-09-2025	Tuesday 30-09-2025	Wednesday 01-10-2025	Thursday 02-10-2025	Friday 03-10-2025	Saturday 04-10-2025
Day	3	4	5	6	7	8
8:00 – 8:45	Functional & surgical anatomy of pituitary gland	Surgical management of pituitary lesions	Clinical workup for thyroid nodule	Short stature.	Primary Amenorrhea	Polycystic ovarian disease and related issues
	Neuro Surg/ 02	NeuroSurg_03/	Surg070/	Pediatrics/021/	Obs&Gyn/030	Obs&Gyn/031
8:45 – 9:30	Anterior pituitary. Prolactinoma, Acromegaly	Posterior Pituitary (Diabetes insipidus, SIADH)	Pathways for thyroid hormone synthesis and its functional anatomy, biological and medical aspects	Hyperthyroidism	Growth & Development (developmental delay, Down's syndrome)	Perioperative management of thyroid patients (Anesthesia)
	Med061/	Med062/	Med065/	Med066/	Pediatrics/022	ANES_01
Break						
Clinical Work		Final Year	MBBS Curriculum / Time Table			



Week 30/42- Parathyroid & Adrenals

07

Time	Monday 06-10-2025	Tuesday 07-10-2025	Wednesday 08-10-2025	Thursday 09-10-2025	Friday 10-10-2025	Saturday 11-10-2025
Day	9	10	11	12	13	14
8:00 – 8:45	Thyroidectomy indications/ steps And complications	Surgery for Carcinoma Thyroid / Neck Dissections	Neuroendocrine tumors & incidentaloma	Investigating parathyroid (surgical and endocrinological Aspects)	Secondary amenorrhea	Contraception Principles, reversible and Permanent methods & emergency contraception
	Surg072/	Surg073	Surg075	Surg077/	Obs&Gyn/032	Obs&Gyn/033
8:45 – 9:30	Hypothyroidism	Workup for Carcinoma Thyroid Oncology	Parathyroid abnormalities/ disorders of calcium metabolism	Disorders of Calcium Metabolism. (Hyperparathyroidism)	Endocrine problems in children : surgical aspect	Mood disorders- Major depressive episodes
	Med067	ONCO03/Surg74	Med063/	Med068	Ped Surg/076	PSY04/Med071
Break						
Clinical Work		Final Year MBBS Curriculum / Time Table				Page 4-7



07

Time	Monday 13-10-2025	Tuesday 14-10-2025	Wednesday 15-10-2025	Thursday 16-10-2025	Friday 17-10-2025	Saturday 18-10-2025
Day	15	16	17	18	19	20
8:00 – 8:45	Surgical aspects of parathyroid management (hypo & hypercalcemia)	Operative Surgery for Parathyroid and complication management	Surgery for Functional Adrenal Tumors (pheochromocytoma)	Surgery for adrenals (Perioperative considerations) (Anesthesia)	Infertility Causes of male and female infertility & investigations of an infertile couple	Infertility Principles of management of an infertile couple
	Surg078	Surg079	Surg081	ANES_02	Obs&Gyn/034	Obs&Gyn/035
8:45 – 9:30	Disorders of Calcium Metabolism. (Hypoparathyroidism)	Sellar & Suprasellar lesions & their management	Adrenal Gland. Hypo functioning Medicine	Adrenal Gland. Hyperaldosteronism & Phaeochromocytoma	Hypothyroidism/ and other endocrine problems	Mood disorders- Unipolar/ bipolar
	Med069	Neuro.Surg_05	Med070	Med072	Obs&Gyn/023/	PSY05/Med76
Break						
Clinical Work						

Final Year MBBS Curriculum / Time Table

Page 5-7



Week 32/42 – Diabetes Mellitus

07

Time	Monday 20-10-2025	Tuesday 21-10-2025	Wednesday 22-10-2025	Thursday 23-10-2025	Friday 24-10-2025	Saturday 25-10-2025
Day	21	22	23	24	25	26
8:00 – 8:45	Workup for breast lump – Triple assessment	Benign conditions of breast -1 (Mastalgia & breast Mass)	Benign conditions of breast -2 (Mastalgia & breast Mass)	Investigations and Staging for breast carcinoma Surgical oncology	Endometriosis/ Adenomyosis	Menopause and HRT
	Surg082	Surg083	Surg084/	Surg085/	Obs&Gyn/036	Obs&Gyn/037
8:45 – 9:30	Multiple endocrine neoplasia (MEN) syndromes. Autoimmune polyendocrine syndrome (APS).	Diabetes Mellitus Overview. Definition, Diagnosis, Classification.	Diabetes Mellitus. Complications. (Microvascular) MEDICINE	Diabetes Mellitus. Complications. (Macrovascular) MEDICINE	Insulin Dependent Diabetes Mellitus (pediatrics)	Mood Disorders – Manic episodes/ atypical
	Med073/	Med074/	Med75/	Med77	Pediatrics/024/	PSY06/Med81/
Break						
Clinical Work		Final Year MBBS Curriculum / Time Table				Page 6-7



Week 33/42 – Diabetes Mellitus

07

Time	Monday 27-10-2025	Tuesday 28-10-2025	Wednesday 29-10-2025	Thursday 30-10-2025	Friday 31-10-2025	Saturday 01-11-2025
Day	27	28	29	30	31	
8:00 – 8:45	Breast Carcinoma (different surgical options & Clinical Oncology)	Surgery on Breast and complications	Surgery Test	Pancreatitis with Management of complications of pancreatitis	Obs & Gynae Test	Continue 8th Module
	Surg086	Surg087	Surgery	Surg088	Obs&Gyn	
8:45 – 9:30	Diabetes Mellitus. Management. Treatment of Type 1 and Type 2 DM. MEDICINE	Reproduction and Sex Disorders. Medicine	Medicine Test	Acute pancreatitis Medicine	Pediatrics Test	
	Med78/	Med80/	Medicine	Med79/	Pediatrics	
Break						
Clinical Work						
Final Year MBBS Curriculum / Time Table						



8

Elective orthopedics and Rheumatology

Time duration : 02 weeks (weeks 39-40)

Starting Date: 01-11-2025

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52			

Medicine	Surgery	Paeds	Plastic Surgery	Gynae
10	08	02		



Week 39/42

08

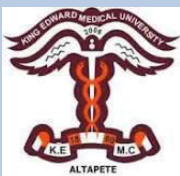
Time	Monday 27-10-2025	Tuesday 28-10-2025	Wednesday 29-10-2025	Thursday 30-10-2025	Friday 31-10-2025	Saturday 01-11-2025
Day						1
8:00 – 8:45	End of 7th Module					Hip & Knee
						Ortho_/Surg137 /Rhe01
08:45-9:30						SLE + Anti phospholipid syndrome
						Rhe_02/Med137 /Rhe02
Break						
Clinical Work						



Week 40/42

08

Time	Monday 03-11-2025	Tuesday 04-11-2025	Wednesday 05-11-2025	Thursday 06-11-2025	Friday 07-11-2025	Saturday 08-11-2025
Day	2	3	4	5	6	7
8:00 – 8:45	Foot & Ankle	Neck & shoulder	Hand Infections (Plastic Surgery)	Hand Surgery (Plastic Surgery)	Pediatric Orthopedics	Monoarthritis / Septic Arthritis
	Ortho_/Surg138/ Rhe03	Ortho_/Surg139/ Rhe05	P.S_08/Surg139/ Rhe07	P.S_09/Surg140/ Rhe09	Ortho_/Surg141/ Rhe11	Rhe_09/Med144/ Rhe13
08:45-9:30	Polymyositis/ Dermatomyositis	Common rheumatological disorders in Children.	Sjogren syndrome/MCTD	Seronegative arthritis	Vasculitis I	Vasculitis II
	Rhe_03/Med138/ Rhe04	Pediatrics/032/ Rhe06	Rhe_05/Med140/ Rhe08	Rhe_06/Med141/ Rhe10	Rhe_07/Med142/ Rhe12	Rhe_08/Med143/ Rhe14
Break						
Clinical Work						



Week 40/42

08

Time	Monday 10-11-2025	Tuesday 11-11-2025	Wednesday 12-11-2025	Thursday 13-11-2025	Friday 14-11-2025	Saturday 15-11-2025
Day	8	9	10	11		
8:00 – 8:45	Spine Orthopedics	Orthopedic Class Assessment	Paget's disease.	Paediatric Orthopaedic & Rheumatology problems (DDH, TEV, Reactive Arthritis, JIA etc)	End of 8th Module	
	Ortho_/Surg136 /Rhe17	Ortho_/Surg137 /Rhe21	Rhe_10/Med146 /Rhe15	Ped.Surg_/Surg1 42/Rhe19		
08:45-9:30	Scleroderma	Rheumatoid arthritis	Child Abuse & Neglect	Rheumatology Class Assessment		
	Rhe_04/Med145/ Rhe16	Rhe_01/Med136 /Rhe18	Pediatrics/033 /Rhe20	Rhe_04/Med145 /Rhe22		
Break						
Clinical Work						



9

RENAL MODULE

Time Duration : 2 weeks (weeks 41 – 42)

Starting Date: 14-11-2025

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52			

Medicine	Surgery	Paeds	Gyne	Radiology
08	12	02	02	--



Week 41/42

09

Time	Monday 10-11-2025	Tuesday 11-11-2025	Wednesday 12-11-2025	Thursday 13-11-2025	Friday 14-11-2025	Saturday 15-11-2025
Day					1	2
8:00 – 8:45	End of 8th Module				Urolithiasis and its management	Uterovaginal prolapse
					Uro_01/Surg 144/Ren01	Obs&Gyn/055/Ren03
8:45 – 9:30					Symptoms and investigations of Renal and urinary tract diseases (Medical)	Glomerulonephritis (nephrology/ Medicine)
					Neph/Med147/Ren02	Neph/Med148/Ren04
Break						
Clinical Work						
	Final Year MBBS Curriculum / Time Table					Page 2-4



Week 42/42

09

Time	Monday 17-11-2025	Tuesday 18-11-2025	Wednesday 19-11-2025	Thursday 20-11-2025	Friday 21-11-2025	Saturday 22-11-2025
Day	3	4	5	6	7	8
8:00 – 8:45	Acute Kidney Injury (AGN, ATN etc)	Renal cell carcinoma diagnosis & management	Bladder Tumors diagnosis / Management	Congenital & pediatric problems with Genitourinary systems	Stricture urethra and its management	Urinary incontinence
	Pediatrics/034/ Ren05	Uro_03/Surg 146/Ren07	Uro_04/Surg147/ Ren09	Ped.Surg_09/ Surg148/Ren11	Uro_06/Surg150/R en13	Obs&Gyn/056/ Ren15
8:45 – 9:30	Urogenital trauma	Chronic Kidney disease	Infections of Kidneys Tubulo-interstitial diseases (nephrology/ Medicine)	Renal transplantation	Common investigations and their interpretation for urinary tract (Radiology)	UTI
	Uro_02/Surg 145/Ren06	Neph /Med149/Ren08	Neph/Med150/ Ren10	Uro-05/Surg 149/Ren12	Rad 01/Surg151/ Ren14	Uro-07 Surg 152/ Ren16
Break						
Clinical Work						



Week 42/42

09

Time	Monday 24-11-2025	Tuesday 25-11-2025	Wednesday 26-11-2025	Thursday 27-11-2025	Friday 28-11-2025	Saturday 29-11-2025
Day	9	10	11	12	13	
8:00 – 8:45	BPH/CA prostate/diagnosis & management	Erectile dysfunction	Class Assessment (Urology)	Polycystic Kidney Disease	Congenital renal anomalies.	End of Module 09
	Uro_08/Surg153/ Ren17	Uro_09/Surg154/ Ren19	Uro_10/Surg155/ Ren21	Neph /Med152/ Ren23	PedSURG/Surg156/ Ren25	
8:45 – 9:30	Nephrotic syndrome (pediatrics)	Renal Replacement Therapy	Chronic Kidney Disease in children	Palliative care in advanced genitourinary system Medicine/ Oncology	Class Assessment (Nephrology)	
	Pediatrics/035/ Ren18	Neph /Med151/Ren20	Pediatrics/036/ Ren22	Med153/Ren24	Neph /Med154 Ren26	
Break						
Clinical Work						

CLINICAL TEACHING COMPONENT

Approved list of competencies for final year students for the year 2025-2026

TABLE OF SPECIFICATIONS

PAPER A	SEQ	MCQS	%	PAPER B	SEQ	MCQS	%
Principles	2	10	22.2%	Breast and endocrine	2	10	22.2%
Perioperative workup and care	2	10	22.2%	Git & hernia	2	15	25.9%
Trauma	2	12	23.7%	Hepatobiliary	1	5	11.1%
Skin and head & neck	1	5	11.1%	Vascular	1	4	10.4%
Elective orthopedics	1	3	9.6%	Genitourinary	1	4	10.4%
Miscellaneous I	1	5	11.1%	Miscellaneous II	2	7	20.0%
Total	9	45	100.0%	Total	9	45	100.0%

Table of Specifications

Specific Learning Outcomes	C%	S %	A%	Total
Perform collaboration with colleagues to collect patient data	5		8	13
Patient Examination	5	10	5	20
History taking	8	17	10	35
Recognize the role of teamwork and function as an effective member / leader of the team	3		7	10
Perform scrubbing gowning and gloving	3	2	2	7
Pass IV line , maintaining IV line, NG Intubation, Folley's catheterization	3	2	2	7
Advise the community on matters related to promoting health and preventing disease	3		5	08
Total	30	31	39	100

Week	Monday	Tuesday	Wednesday	Thursday	Thursday Emergency	Saturday Emergency
	10:30 – 12:00	10:30 – 12:00	10:30 – 12:00	10:30 – 12:00		
Week 1 Jan 4-11	Orientation Class Formal Introduction Time table, History, Videos	Role play Communication skills	Role play Communication skills	History taking Role modelling Elective cases	History taking Emergency cases Appendicitis	Procedure Performance
Week 2	History taking Pain Right Iliac Fossa	History taking Pain Right Hypochondrium	History taking Lump Neck	History taking Lump Breast	History taking Emergency cases Abscess	Procedure Performance
Week 3	History taking Lump Groin	History taking Ulcer Diabetic foot	How to analyse Inductive reasoning	How to analyse Deductive Reasoning	History taking Emergency cases Trauma	Procedure performance
Week 4	History taking Vascular Insufficiency	Mock Exam	Feedback	Simulation and its use in Clinical Examination	Procedure performance	Procedure performance
Week 5	Importance of Consent, Privacy, Exposure and Chaperon	General Physical Examination Initial Impression	Examination Of Chest	Examination of Breast	Procedure performance	Procedure performance
Week 6	Examination of Abdomen	Examination of Inguinoscrotal Region	Examination of Lump	Examination of Ulcer	Procedure performance	Procedure performance
Week 7	Examination of Vascular system	Examination of venous system	Examination of Lymphatic System	Examination of Motor system	Procedure performance	Procedure performance
Week 8	Examination of sensory system	Examination of joint	Examination of Limb	Final exam		

4th year

Week	Monday	Tuesday	Wednesday	Thursday	Thursday Emergency	Saturday Emergency
	10:30 – 12:00	10:30 – 12:00	10:30 – 12:00	10:30 – 12:00		
Week 1 Jan 4-11	Orientation Class Formal Introduction Setting ground rules	History Taking -1 Medical Interview Basics-I Biodata/Presenting Complaints/ HOPI	History taking -2 Medical Interview Basics-II PH/ Personal history/ Family History/ Provisional/working diagnosis	General Physical Examination	History taking The acute abdomen Emergency cases Appendicitis	AMPLE History in trauma patients Procedure Performance
Week 2	History taking Pain Right Iliac Fossa	History taking Pain Right Hypochondrium	Case presentations	History taking Lump Breast	History taking Emergency cases Abscess	Procedure Performance
Week 3	History taking Lump Groin	History taking Ulcer Diabetic foot	How to analyse Inductive reasoning	How to analyse Deductive Reasoning	History taking Emergency cases Trauma	Procedure performance
Week 4	History taking Vascular Insufficiency	Mock Exam	Feedback	Simulation and its use in Clinical Examination	Procedure performance	Procedure performance
Week 5	Importance of Consent, Privacy, Exposure and Chaperon	General Physical Examination Initial Impression	Examination Of Chest	Examination of Breast	Procedure performance	Procedure performance
Week 6	Examination of Abdomen	Examination of Inguinoscrotal Region	Examination of Lump	Examination of Ulcer	Procedure performance	Procedure performance
Week 7	Examination of Vascular system	Examination of venous system	Examination of Lymphatic System	Examination of Motor system	Procedure performance	Procedure performance
Week 8	Examination of sensory system	Examination of joint	Examination of Limb	Final exam		

Procedures mandatory for final year MBBS

24. Use of local anaesthetics	Safe use of drugs that produce numbness and prevent pain, either applied directly to the skin or injected into skin or body tissues. Awareness of toxic doses. Ability to deal with anaphylaxis. Understanding of allergy, including to latex.
25. Skin suturing	Closing wounds in the skin by inserting stitches.
26. Wound care and basic wound dressing	Providing basic care of surgical or traumatic wounds and applying dressings appropriately.
28. Giving information about the procedure, obtaining and recording consent, and ensuring appropriate aftercare procedure.	Awareness of the risks and benefits of procedures and possible alternatives. Ability to communicate in a variety of ways to individualise the discussion with the patient or their supporters. Recognition of the barriers to communication inherent in a hospital/ clinic setting with which patients are not familiar, including heightened stress levels for the patient, which often impedes communication. Understanding of the importance of written documentation. Being clear in the observations required and communicating with those involved in aftercare, including handover.
29. Hand washing (including surgical 'scrubbing up')	Following a sequence to ensure clean hands and gloving without contamination.
30. Use of personal protective equipment (gloves, gowns, masks)	Following a sequence to fit mask, scrub, gown and gloves without contamination. Behaviour while using equipment. Appropriate doffing procedures to avoid contamination of self or environment.
31. Infection control in relation to procedures	Understanding the importance of minimising infection risk. This includes understanding team dynamics, avoiding contamination, commanding respect and adhering to local protocols.
32. Safe disposal of clinical waste, needles and other 'sharps'	Ensuring that these materials are handled carefully and placed in a suitable container for disposal.

Procedures mandatory for final year MBBS

Other skills an undergraduate should master, including examination skills

Removal of stitches and staples

Applications of dressings and bandages

Examination of a lump (eg its size, consistency, location, mobility and whether it is tender, pulsatile or transilluminates)

Assessment of a wound

Examination for fitness for surgery (chest, heart, neck and mouth opening)

Examination of the abdomen

Digital rectal examination

Examination of the groin

Examination of the scrotum

Examination of the soft tissues of the neck

Examination of pulses

Examination of the breast

Examination of the hip

Examination of the knee

Examination of the back

3rd year

Week	Monday	Tuesday	Wednesday	Thursday	Thursday Emergency	Saturday Emergency
	10:30 – 12:00	10:30 – 12:00	10:30 – 12:00	10:30 – 12:00	6:00 am – 6:00 pm	6:00 am – 6:00am
Week 1 Jan 4-11	Operation Theatre Old East Operation Theatre	Ward/ Learning Room	Out patient Department	Operation Theatre Old East Operation Theatre		
Week 2	Operation Theatre Old East Operation Theatre	Ward/ Learning Room	Out patient Department	Operation Theatre Old East Operation Theatre		
Week 3	Operation Theatre Old East Operation Theatre	Ward/ Learning Room	Out patient Department	Operation Theatre Old East Operation Theatre		
Week 4	Operation Theatre Old East Operation Theatre	Ward/ Learning Room	Out patient Department	Operation Theatre Old East Operation Theatre		
Week 5	Operation Theatre Old East Operation Theatre	Ward/ Learning Room	Out patient Department	Operation Theatre Old East Operation Theatre		
Week 6	Operation Theatre Old East Operation Theatre	Ward/ Learning Room	Out patient Department	Operation Theatre Old East Operation Theatre		
Week 7	Operation Theatre Old East Operation Theatre	Ward/ Learning Room	Out patient Department	Operation Theatre Old East Operation Theatre		
Week 8	Operation Theatre Old East Operation Theatre	Ward/ Learning Room	Out patient Department	Operation Theatre Old East Operation Theatre		

KEMU Curricular Map: A Competency-Based Framework

Final YEAR MBBS Modular Integrated Framework

Period	Block	Primary Modules	Horizontal Integration	Skill component	Vertical Integration	Spiral threads	
03 Feb – 18 Apr	Block 1	BASIC CONCEPTS FOR INFECTIONS/PERIOPERATIVE SURGICAL CARE/ HEMATOLOGIC DISORDERS (5 Weeks) End-of-module test	Shock Resuscitation Blood Transfusion Wound Management Liver And	• Clinical Rotation • Clinical ward • Elective OTs • Trauma Bay • Surgical ER	Pathology Oncology Radiology Interactive Lecture SDL VENUE: 1.Jinnah Auditorium 2.Respective Wards	K-CORE: Ward orientation, hand hygiene, vitals, Scrubbing. Ward rotations Daily 10:30 to 2:30 K-PRISM: Clinical Judgement Decision making 1.5 Hr/Day Lecture in Jinnah Auditorium	
		HEPATOBIILIARY & PANCREAS (4 Weeks) End-of-module test	Hepatobiliary Anatomy Malignancies Surgical Management				
BLOCK ASSESSMENT – Written Component (SEQ +MCQ) and OSPE							
19 Apr – 25 May	Block 2	GASTROINTESTINAL TRACT (GIT) (6 Weeks) End-of-module test	Dysphagia Gastric Outlet Obstruction Gastric Carcinomas PUD	• Clinical Rotation • Clinical ward • Elective OTs • Trauma Bay • Surgical ER	Pathology Oncology Radiology Psychiatry Interactive Lecture SDL VENUE: 1.Jinnah Auditorium 2.Respective Wards	K-CORE: History-taking, Abdominal exams, Fluid Management & Nutrition Assessment Ward rotations Daily 10:30 to 2:30 K-PRISM: Clinical Judgement Decision making 1.5 Hr/Day Lecture in Jinnah Auditorium	
			Motility Disorders Salivary Gland Pathologies				
BLOCK ASSESSMENT - Written Component (SEQ + MCQ) and OSPE							
26 May- 26 Aug	Block 3	CNS/ RESPIRATORY & HAEMODYNAMICS (INTERMODULE 1) (3 Weeks)	Lymphomas Venous thromboembolism	• Clinical Rotation	Pathology Oncology Radiology Interactive	K-CORE: CNS & Respiratory examination, Emergency response K-PRISM:	

[illegible]

December	Prep Leave 4 Weeks
January	SUMMATIVE ASSESSMENT - Written component + Structured Viva
	Programme evaluation



DISTRIBUTION OF FINAL YEAR MBBS LECTURE ACCORDING TO MODULE
King Edward Medical University, Lahore

MODULE / INTER MODULE	MEDICINE	SURGERY	PEDIATRICS	GYNAE
1. BASIC CONCEPTS FOR INFECTIONS/PERIOPERATIVE SURGICAL CARE/ HEMATOLOGIC DISORDERS	23	17	07	12
2. HEPATOBILIARY & PANCREAS	26	10	03	08
3. GASTROINTESTINAL TRACT (GIT)	17	26	03	08
4. CNS/ RESPIRATORY & HAEMONC (INTERMODULE 1)	21	08	04	--
5. ACUTE CARE & TRAUMA	19	26	04	08
6. CVS/ VASCULAR DISEASES	18	21	06	11
7. ENDOCRINE & BREAST DISEASE	22	28	04	15
8. ELECTIVE ORTHOPEDICS AND RHEUMATOLOGY	10	08	02	--
9. RENAL MODULE	08	12	02	02
Grand Total lectures	164	156	35	64



Modular order with dates-Final Year MBBS 2025
King Edward Medical University, Lahore

MODULE / INTER MODULE	STARTING DATE	ENDING DATE
1. BASIC CONCEPTS FOR INFECTIONS/PERIOPERATIVE SURGICAL CARE/ HEMATOLOGIC DISORDERS	03-02-2025	09-03-2025
2. HEPATOBILIARY & PANCREAS	10-03-2025	18-04-2025
3. GASTROINTESTINAL TRACT (GIT)	19-04-2025	25-05-2025
4. CNS/ RESPIRATORY & HAEMONC (INTERMODULE 1)	26-05-2025	30-06-2025
5. ACUTE CARE & TRAUMA	1-07-2025	26-08-2025
6. CVS/ VASCULAR DISEASES	27-08-2025	25-09-2025
7. ENDOCRINE & BREAST DISEASE	26-09-2025	31-10-2025
8. ELECTIVE ORTHOPEDICS AND RHEUMATOLOGY	01-11-2025	13-11-2025
9. RENAL MODULE	14-11-2025	28-11-2025

Final Year MBBS Lecture Details from Modules

Module	Medicine	Surgery	Peds	Gynae																										
Basic concepts for Infections / Perioperative Surgical care / Hematologic Disorders (Module-1)	Total 23 <table><tr><td>Medicine</td><td>Derma</td><td>Pulmo</td></tr><tr><td>16</td><td>04</td><td>03</td></tr></table>	Medicine	Derma	Pulmo	16	04	03	Total 18 <table><tr><td>Surg.</td><td>PlasS.</td><td>Anes</td></tr><tr><td>13</td><td>03</td><td>02</td></tr></table>	Surg.	PlasS.	Anes	13	03	02	07	11														
Medicine	Derma	Pulmo																												
16	04	03																												
Surg.	PlasS.	Anes																												
13	03	02																												
HEPATOBIILIARY & PANCREAS (Module-2)	Total 15 <table><tr><td>Medicine</td><td>Radiology</td></tr><tr><td>13</td><td>02</td></tr></table>	Medicine	Radiology	13	02	Total 17 <table><tr><td>Surg.</td><td>PedS.</td></tr><tr><td>16</td><td>01</td></tr></table>	Surg.	PedS.	16	01	05	10																		
Medicine	Radiology																													
13	02																													
Surg.	PedS.																													
16	01																													
GASTROINTESTINAL TRACT (Module-3)	Total 17 <table><tr><td>Medicine</td><td>Psych.</td></tr><tr><td>11</td><td>06</td></tr></table>	Medicine	Psych.	11	06	Total 27 <table><tr><td>Surg.</td><td>PedS.</td></tr><tr><td>22</td><td>05</td></tr></table>	Surg.	PedS.	22	05	03	08																		
Medicine	Psych.																													
11	06																													
Surg.	PedS.																													
22	05																													
CNS/ Respiratory & HaemOnc (Intermodule 1) (Module-4)	Total 23 <table><tr><td>Medicine</td><td>Haem.</td><td>Pulmo</td></tr><tr><td>09</td><td>08</td><td>06</td></tr></table>	Medicine	Haem.	Pulmo	09	08	06	Total 07 <table><tr><td>Surg.</td><td>ChestS.</td></tr><tr><td>04</td><td>03</td></tr></table>	Surg.	ChestS.	04	03	05	00																
Medicine	Haem.	Pulmo																												
09	08	06																												
Surg.	ChestS.																													
04	03																													
Acute Care & Trauma (Module -5)	Total 18 <table><tr><td>Medicine</td><td>Derma</td><td>Psych.</td><td>Neph.</td><td>Pulmo</td></tr><tr><td>11</td><td>02</td><td>03</td><td>01</td><td>01</td></tr></table>	Medicine	Derma	Psych.	Neph.	Pulmo	11	02	03	01	01	Total 29 <table><tr><td>Surg.</td><td>PedS.</td><td>Plasts.</td><td>Onco.</td><td>Anes.</td><td>Ortho.</td><td>OMF.</td><td>Neuro.</td></tr><tr><td>13</td><td>02</td><td>06</td><td>02</td><td>01</td><td>02</td><td>01</td><td>02</td></tr></table>	Surg.	PedS.	Plasts.	Onco.	Anes.	Ortho.	OMF.	Neuro.	13	02	06	02	01	02	01	02	04	08
Medicine	Derma	Psych.	Neph.	Pulmo																										
11	02	03	01	01																										
Surg.	PedS.	Plasts.	Onco.	Anes.	Ortho.	OMF.	Neuro.																							
13	02	06	02	01	02	01	02																							

Cardiovascular System and Related Diseases (Module -6)	Total 27						Total 10					03	08
	Medicine	Derma	Psych.	Card.	Neph.	Radio.	Surg.	PlastS.					
	15	04	01	05	01	01	09	01					
Endocrine & Breast Disease (Module-07)	Total 21						Total 25					04	10
	Medicine		Psych.		Surg.		PedS.	Onco.	Anes.	Neuro.			
	19		03		15		02	01	02	03			
Elective orthopedics and Rheumatology (Module-08)	Total 11						Total 09					02	00
	Rheum.		Surg.		Ortho.		PedsS.	PlastS.					
	11		06		01		02						
RENAL MODULE (Module-09)	Total 09						Total 12					03	02
	Medicine	Neph.	Radio.		Urology.		PedsS.						
	01	07	01		10		02						
Total Number of Lectures	164						154					36	57



DISTRIBUTION OF FINAL YEAR MBBS LECTURE ACCORDING TO MODULE

King Edward Medical University, Lahore

MODULE / INTER MODULE	MEDICINE	SURGERY	PEDIATRICS	GYNAE
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2. HEPATOBILIARY & PANCREAS	26	10	03	08
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5. ACUTE CARE & TRAUMA	19	26	04	08
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Grand Total lectures	164	156	35	64



Modular order with dates-Final Year MBBS 2025

King Edward Medical University, Lahore

MODULE / INTER MODULE	STARTING DATE	ENDING DATE
1. BASIC CONCEPTS FOR INFECTIONS/PERIOPERATIVE SURGICAL CARE/ HEMATOLOGIC DISORDERS	03-02-2025	09-03-2025
2. HEPATOBILIARY & PANCREAS	10-03-2025	18-04-2025
3. GASTROINTESTINAL TRACT (GIT)	19-04-2025	25-05-2025
4. CNS/ RESPIRATORY & HAEMONC (INTERMODULE 1)	26-05-2025	30-06-2025
5. ACUTE CARE & TRAUMA	1-07-2025	26-08-2025
6. CVS/ VASCULAR DISEASES	27-08-2025	25-09-2025
7. ENDOCRINE & BREAST DISEASE	26-09-2025	31-10-2025
8. ELECTIVE ORTHOPEDICS AND RHEUMATOLOGY	01-11-2025	13-11-2025
9. RENAL MODULE	14-11-2025	28-11-2025