



LAHORE
MEDICAL & DENTAL
COLLEGE

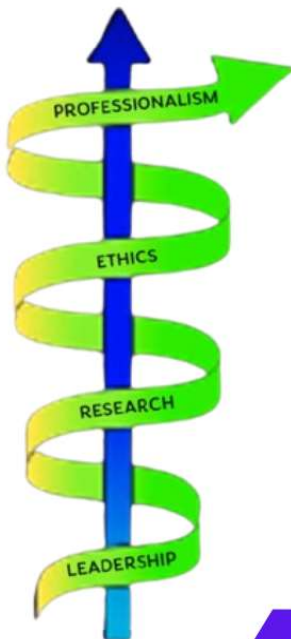
Third Year MBBS

**PERL
STUDY GUIDE**



PERLs-III

Year-III





FOUNDATION-II & EBM

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

Total Hours = 7.5

Code	Domain	Topic	Specific Learning Objectives	Proposed Portfolio Entry
	Professionalism	Professional Responsibility in Clinical Rotations	- Understand the basic professional behaviours expected in clinical rotations, such as punctuality, appropriate communication, and respectful interactions with patients and staff. - Observe a clinical setting and identify key professional behaviours demonstrated by healthcare staff, such as maintaining punctuality and professional communication	A brief reflection on the key professional behaviours observed during the first clinical rotation session, noting how these behaviours contribute to patient care and professional conduct.
	Research	Evidence-Based Practice for Disease Management	- Understand the principles of evidence-based practice (EBP) and how to apply current research findings to clinical decision-making for disease management. - Apply evidence-based guidelines to develop a disease management plan.	Create a case report detailing the application of EBP to a specific disease management scenario, including references to the literature
	Research	Investigating medical errors	- Describe the process of investigating medical errors, including Root Cause Analysis (RCA) and the Swiss Cheese Model, to identify contributing factors and prevent future errors. - Analyze a medical error case, conduct a root cause analysis, apply the Swiss Cheese Model and propose preventive measures to	Poster Submission of a medical error case, including both root cause analysis and a Swiss Cheese Model diagram that illustrates the alignment of system failures – along with proposed recommendations.

			strengthen system defenses.	
	Ethics	Reporting medical errors	- Discuss the ethical obligations in reporting medical errors and the role of transparency in maintaining patient trust and improving care quality. - Draft an incident report on a simulated medical error, outlining the ethical considerations and steps taken to address the issue	Submit a written incident report on a simulated or real medical error, including the ethical implications and actions taken.
	Leadership	Role Modelling/ Mentoring Session V	Participate in a mentoring session where they will discuss their strengths and weaknesses with their mentor, receive feedback, and collaboratively create an action plan for personal and professional development. Discuss any challenges faced while carrying out any action plan if already created and related solutions to overcome those challenges.	Mentoring Session V Key decisions
GENERAL & CLINICAL PHARMACOLOGY				
*Proposed Sequence of Topics Mentioned below. Medical Colleges are at liberty to manage according to their resources. Topics can switch within each Block				Total Hours = 06
Code	Domain	Topic	Specific Learning Objectives	Proposed Portfolio Entry
	Professionalism	Responsible use of social media Platforms	Discuss the principles of responsible use of social media platforms, including safeguarding patient confidentiality, conducting ethical interactions, and practising careful online sharing. Discuss available social media use guidelines in healthcare.	Develop and submit personal social media guidelines that reflect ethical use in professional and medical contexts

	Ethics	Conflict of interest, Dealing with Pharmaceuticals	Explain the ethical challenges related to conflicts of interest in healthcare, particularly when dealing with pharmaceutical companies, and understand how to manage these situations to maintain professional integrity. Analyze a case study where a conflict of interest occurred involving pharmaceutical companies, and propose strategies for ethically managing such situations	Submit an analysis of a case involving a conflict of interest in pharmaceutical dealings, including recommendations for handling the situation ethically and how such conflicts can be avoided in future practice.
	Research	Gaps in Literature	- Analyze existing research in a specific medical field to identify gaps in literature that need further exploration. - Appreciate the importance of Recognizing these gaps to formulate meaningful research problems. Identify and submit at least one significant gap in the literature, and propose a research question or hypothesis to address this gap.	Submit a literature review summary identifying key gaps in the research.
	Leader	Artificial Intelligence in Research	- Explore the role of artificial intelligence (AI) in medical research, including its applications, potential benefits, and challenges, while identifying ways AI can innovate and enhance research methodologies. - Discuss the ethical implications of using AI in research, including	Develop and submit a code of conduct for the responsible use of AI tools in research, focusing on ethical issues such as bias, data privacy, informed consent, and transparency.

			bias, data privacy, transparency, and accountability concerns. • Demonstrate the use of AI tools as supplementary tools in research.	
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HEMATOPOETIC, IMMUNITY & TRANSPLANT

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

Total Hours = 1.5

Code	Domain	Topic	Specific Learning Objectives	Proposed Portfolio Entry
	Professionalism	Maintaining Patient Confidentiality	- Discuss the principles for maintaining patient confidentiality. - Appreciate the importance of maintaining patient confidentiality in clinical practice. - Discuss legal and ethical implications of patient confidentiality.	Reflective entry on a clinical case where confidentiality was maintained, detailing the challenges and how they were addressed.

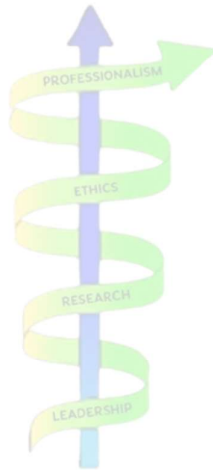
FORENSIC MEDICINE & TOXICOLOGY

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

Total Hours = 4.5

Code	Domain	Topic	Specific Learning Objectives	Proposed Portfolio Entry
	Ethics	Human Rights & Malpractice	Discuss ethical principles surrounding human rights in healthcare, particularly in malpractice cases, and recognize the professional obligations to uphold patients' rights while preventing and addressing malpractice.	Case analysis of a malpractice incident, discussing the implications of human rights and detailing measures that could have been implemented to avoid the violation of patient rights.
	Research	Legal and Ethical Aspects of Research	- Discuss the legal and ethical frameworks governing medical research, including protecting human subjects, informed consent, privacy, and compliance with national and international regulations. - Discuss the role of Institutional Review Boards in the research process.	Review and submit the Patient Information Sheet/ Informed Consent Sheet of your College IRB and propose any improvement if needed.

	Leadership	Project Management	Introduce the basic concepts of project management in healthcare, including planning, organizing, and executing small projects, such as case studies or group assignments. Participate in a class activity, where they will plan and organize tasks, set timelines, and assign roles to ensure the project is completed efficiently.	Write a Class activity report with assigned roles taken by each group member. Critically evaluate the challenges observed with proposed recommendations.
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MUSCULOSKELETAL AND LOCOMOTION-II

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

Total Hours = 06

Code	Domain	Topic	Specific Learning Objectives	Proposed Portfolio Entry
	Research	Identification of Research Problem	- Describe the process of identifying a viable research problem based on gaps in existing literature. - Draft a research problem statement in a relevant medical field and formulate a research question based on the current literature. - Submit a well-defined research problem statement that highlights a gap in the literature and explains the importance of investigating this issue further.	Evidence of submitted Research Problem to assigned Research Mentor.
	Professionalism	Adapting to the Physician's Role	Appreciate the skills to adapt to the physician's role, including managing stress, handling uncertainty, and making clinical decisions, while demonstrating professionalism in diverse clinical settings.(skills include emotional resilience, critical thinking, communication, and time management)	Submit a reflective essay on a clinical experience where you applied these skills to manage stress, handle uncertainty, and make clinical decisions, proposing strategies to develop your adaptability further.
	Ethics	Autonomy in rehabilitation, Informed consent	- Discuss the process of obtaining informed consent, ensuring patients are fully aware of their treatment options, risks, and potential outcomes. - Ensure the patient's autonomy is respected throughout the	Develop an Informed consent Sheet for patients undergoing rehabilitation after trauma.

			decision-making process.	
	Leadership	Entrepreneurship in Healthcare	- Discuss the basic principles of entrepreneurship in healthcare, including identifying gaps in healthcare services, understanding innovation, and exploring how entrepreneurial thinking can improve patient care and healthcare delivery. - Identify a gap or unmet need in the healthcare system (e.g., a service or technology that could improve patient outcomes) and suggest an innovative solution or approach.	Propose an innovative solution that could address the gap or improve patient care, with a focus on how entrepreneurial thinking can be applied.

INFECTIOUS DISEASES

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

Total Hours = 06

Code	Domain	Topic	Specific Learning Objectives	Proposed Portfolio Entry
	Professionalism	Professional Responsibility in Public Health	Recognize the professional duty of healthcare workers to protect vulnerable patients, colleagues, and the community by adhering to infection control protocols and promoting public health measures. Effectively communicate the risks and management strategies related to contagious diseases to patients and their families (i.e Tuberculosis) balancing public health concerns with individual patient rights and privacy.	Make a public awareness poster on infection control.

	Ethics	End-of-life decisions, ventilator use	Explore the ethical considerations involved in end-of-life decisions, including using ventilators, balancing patient autonomy, family wishes, and medical judgment in making these decisions.	Write a case analysis on end-of-life decisions, particularly regarding ventilator use, and propose an ethically sound approach to decision-making.
	Research	Developing Research Hypotheses and Questions	- Understand the process of formulating research hypotheses and developing research questions, with a focus on creating clear, testable, and relevant questions using PICO - Formulate a research question and corresponding hypothesis based on a gap identified in the existing literature related to the research problem identified previously. - Submit a research proposal with a problem statement supported by a brief literature review, a well-defined research question and a hypothesis.	Evidence of submitted research hypothesis/question to assigned Research Mentor.
	Research	Introducing Clinical Audit	Understand the basic concept of a clinical audit and how it can help improve healthcare practices, particularly in infection control, by comparing current practices to standards.	Submit a brief reflection on an infection control practice you observed during your clinical rotation. Suggest one area that could be audited to improve the quality of care and explain why this area was chosen.
NEOPLASIA				
<i>*Proposed Sequence of Topics Mentioned below. Medical Colleges are at liberty to manage according to their resources. Topics can switch within each Block</i>				Total Hours = 1.5
Code	Domain	Topic	Specific Learning Objectives	Proposed Portfolio Entry

	Ethics	Cultural/religious views on Do Not Resuscitate	Explore the diverse cultural and religious perspectives on Do Not Resuscitate (DNR) orders and understand how these views influence end-of-life decisions in the context of neoplasia care.	Submit your hospital Protocol for Do-Not-Resuscitate.
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CARDIOVASCULAR-II

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

Total Hours = 1.5

Code	Domain	Topic	Specific Learning Objectives	Proposed Portfolio Entry
	Research	Research Methodology: Study designs	- Describe the different types of study designs in medical research. - Evaluate selecting an appropriate study design based on the identified research question. - Submit a short report outlining a research question and the selected study design, explaining why this design is chosen and how it addresses the research objectives.	Evidence of submitting Research population selection and size calculation to Research Mentor.

RESPIRATORY-II

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

Total Hours = 4.5

Code	Domain	Topic	Specific Learning Objectives	Proposed Portfolio Entry
	Research	Research Methodology: Population selection and sample size	- Describe the principles of population selection and determining sample size in medical research - Evaluate how these factors impact the validity and generalizability of research findings. - Select a population for a hypothetical research study and calculate an appropriate sample size, providing a rationale based on the research question and study design chosen earlier. - Submit a brief report detailing the population selection and sample size calculation for your planned study,	Evidence of submitting Research population selection and size calculation to Research Mentor.

			including an explanation of the criteria for choosing the population and determining the sample size.	
	Ethics	Ethical clinical trials, drug safety in trials	• Discuss the ethical considerations in clinical trials, including the importance of informed consent, patient safety, and drug safety throughout the trial process. • Discuss the importance of Clinical Trial Registration for Clinical Trials.	Provide recommendations on how the trial could better ensure ethical compliance and drug safety.
	Leadership	Team Leadership	• Discuss the key qualities and skills required for effective team leadership in a healthcare setting, including communication, delegation, and conflict resolution, to foster a collaborative and efficient work environment. • Participate in a group project, take on the team leader role, and practice delegation, communication, and conflict resolution skills. Reflect on the challenges faced and strategies used to ensure team success	As a team, create a simple poster or video presentation on how you managed team dynamics to achieve project goals. Focus on key takeaways and provide basic recommendations for effective team leadership in healthcare settings.

COMMUNITY MEDICINE & FAMILY HEALTH-I

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

Total Hours = 4.5

Code	Domain	Topic	Specific Learning Objectives	Proposed Portfolio Entry
	Ethics	Health Equity: Resource allocation	Understand the ethical principles behind resource allocation in healthcare, particularly in promoting health equity, and how decisions about resource distribution impact vulnerable populations.	Create a basic plan to distribute a limited supply of healthcare resources (e.g., vaccines, beds, or medications) in a community clinic. Explain how you would ensure fair treatment for everyone, especially vulnerable patients, and briefly discuss the ethical reasons behind your choices.
	Leadership	Role Modelling via Mentoring Session VII	Participate in a mentoring session where they will discuss their strengths and weaknesses with their mentor, receive feedback, and collaboratively create an action plan for personal and professional development	Submit a summary of your mentoring session, including feedback, areas identified for improvement, and the action plan you developed with your mentor to enhance your professional growth.
	Research	Research Methodology: Study designs	- Describe the different types of study designs in medical research. - Evaluate selecting an appropriate study design based on the identified research question.	To be submitted in next module.

