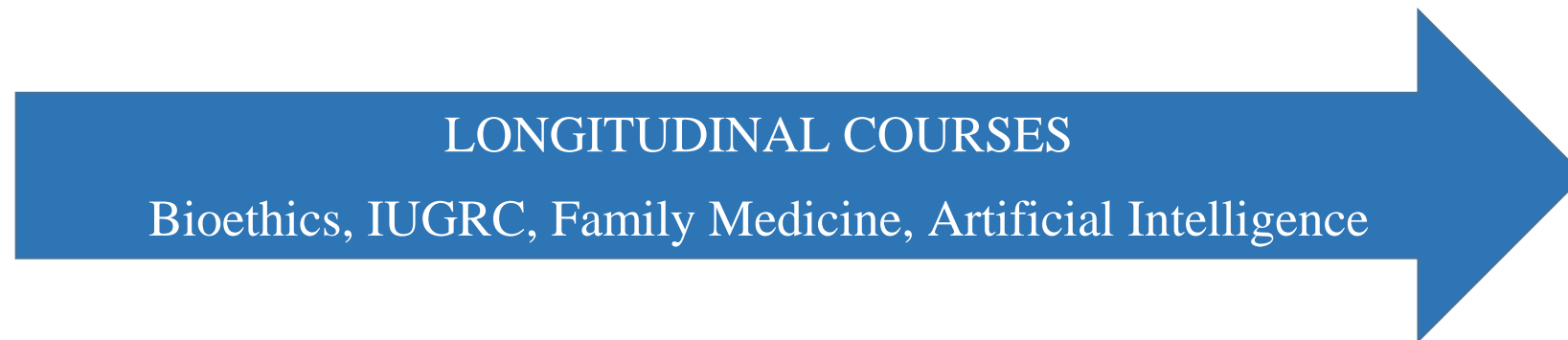


**RAWALPINDI MEDICAL UNIVERSITY
DEPARTMENT OF MEDICAL EDUCATION**



IMPLEMENTATION OF LONGITUDINAL COURSES



Bioethics Curriculum First Year MBBS

Theoretical Component (Integrated Bioethics Methods -1)					
Broad Topic	Major Syllabus With Sub-Topics	Learning Objectives	Teaching Strategy	Assessment Tools	Suggested Reading Sources
Session-1 Time: 60-min Cognitive Domain					
Introduction to History of Medical Ethics	<p>Discussion will cover;</p> <ul style="list-style-type: none"> • Introduction to the Hippocratic Oath (5th Century BCE), basis of modern oaths administered to medical graduates • Understand evolution of contemporary bioethics, its characteristics and relevance to research and practice 	<p>At the end of the session students should be able to;</p> <ul style="list-style-type: none"> • Appraise the historical perspective of Hippocratic Oath (5th Century BCE) . C2 • Understanding the beginnings of Contemporary Bioethics to address ethical dilemmas raised by rapid advances in medical science and biotechnology. C2 	<p>LGIS 1hr contact session in 2-4 parallel classes will be conducted by Senior Faculty from basic sciences (Anatomy, Physiology & Biochemistry)</p>	<p>1 MCQs of level C1 to C3 will cover this session teachings in relevant block examination in pool of total 04 MCQs. Result / marks obtained will contribute towards Internal assessment (IA) in 1st Prof. MBBS exam.</p>	<p>Guidelines and Teachers Handbook for Introducing Bioethics to Medical and Dental Students</p> <p>http://nbcPakistan.org.pk/assets/may-16-bioethics-facilitator-book---may-16%2C-2017.pdf</p> <p>Pakistan Medical and Dental Council, and Higher Education Commission, Islamabad. Curriculum of MBBS. Date unknown [cited 2019 Jun 30]. Available from: http://pmdc.org.pk/LinkClick.aspx?fileticket=EKfB IOSDTkE%3d&tabid=102&mid=556 WHO : Module for Teaching Medical Ethics to Undergraduates file:///C:/Users/drkas/Downloads/WHO%20Module%20for%20Teaching%20Medical%20Ethics%20to%20Undergraduate.pdf</p>

Session-2
Time:60 Mins

Islamic concept of Bioethics	<ul style="list-style-type: none"> •Islamic concept of Bioethics: Perception, Scope and Application in medical and healthcare 	<p>At the end of the session students should be able to;</p> <ul style="list-style-type: none"> • Enlist 5 principles of medical Ethics. C1 • Correlate the concept of Islamic principles of medical ethics with its application in medical and healthcare settings .C2 	<p>LGIS 1hr contact session in 2-4 parallel classes will be conducted by Senior Faculty from basic sciences (Anatomy, Physiology & Biochemistry)</p>	<p>1 MCQs of level C1 to C3 will cover this session teachings in relevant block examination in pool of total 04 MCQs. Result / marks obtained will contribute towards Internal assessment (IA) in 1st Prof. MBBS exam.</p>	<p>Regional Committee for the EM/RC52/7 Eastern Mediterranean Islamic code of medical and health ethics https://applications.emro.who.int/docs/em_rc52_7_en.pdf</p> <p>Islam and the four principles of medical ethics Mustafa, Y. (2014). <i>Islam and the four principles of medical ethics. Journal of Medical Ethics, 40(7), 479–483.</i> doi:10.1136/medethics-2012-101309</p> <p>Ahmed AS (1993) Living Islam. (BBC Books, London), pp 21–56.Google Scholar Gatrad AR, Sheikh A</p> <p>Medical ethics and Islam: principles and practice. Archives of Disease in Childhood 2001;84:72-75.</p>
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Session-3
Time: 60-min

Introduction to Professional Ethics and PM&DC Code of Conduct	<p>Discussion will cover;</p> <ul style="list-style-type: none"> • Introduction to Professional Ethics and PM&DC Code of Conduct • Purpose of medical code of conduct by Regulatory body PM&DC; covering following subtopics <ul style="list-style-type: none"> • What Is the ‘Professional Ethics and Code of Conduct’? 	<p>At the end of the session students should be able to</p> <ul style="list-style-type: none"> • Cognizant with need for professional code of conduct by PM&DC.C1 • Elaborate the purpose and relevance for medical code of conduct at 	<p>LGIS 1hr contact session in 2-4 parallel classes conducted by Senior faculty</p>	<p>1 MCQs of level C1 to C3 will cover this session teachings in relevant block examination in pool of total 04 MCQs. Result / marks obtained will contribute towards Internal assessment (IA) in 1st Prof. MBBS exam.</p>	<p>PMDC Code of Ethics: http://www.pmdc.org.pk/LinkClick.aspx?fileticket=v5WmQYMvHz4%3D&tabid=102&mid=554</p>
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	<ul style="list-style-type: none"> • Why to Have the Code of Conduct? • Who Needs to Follow the Code of Conduct? • Who is it for? • What Are the Code of Conduct Requirements? 	undergraduate level . C2			
Session-4 Time: 60-min					
Broad Topic	Major Syllabus with Sub-Topics	Learning Objectives	Teaching Strategy	Assessment Tools And	Suggested Reading Sources
History of Medical Ethics	<p>Discussion on Health Research ethics focusing;</p> <ul style="list-style-type: none"> •Historical perspective of Tuskegee studies, Willow brook Experiment •Codes of medical ethics: traditional foundations and contemporary practice •Nuremburg code, Belmont report, Declaration of Helsinki and importance of 	<p>At the end of the session students should be able to;</p> <ul style="list-style-type: none"> • Explain the meaning of the term “ethics”.C1 • Describe the historical perspective of global development of medical ethics. C1 • Describe the codes of medical ethics and their implications.C1 • Recognize ethical issues relevant to the case situation and 	<p>LGIS 1hr contact session in 2-4 parallel classes, Conducted by Senior faculty.</p>	<p>1 MCQs of level C1 to C3 will cover this session teachings in relevant block examination in pool of total 04 MCQs. Result / marks obtained will contribute towards Internal assessment (IA) in 1st Prof. MBBS exam.</p>	<p>Guidelines and Teachers Handbook for Introducing Bioethics to Medical and Dental Students http://nbcPakistan.org/assets/may-16-bioethics-facilitator-book---may-16%2C-2017.pdf The Nuremberg Code: http://www.hhs.gov/ohrp/archive/nurcode.html</p> <p>10 WMA Declaration of Helsinki: http://www.wma.net/en/30publications/10policies/b3/</p> <p>CIOMS Guidelines: http://www.cioms.ch/publications/layout_guide2002.pdf .</p> <p>Nuffield Council on Bioethics Guidelines: http://www.sirc.org/news/nuffield.shtml</p>

	<p>historical background of ethics in current research trends</p> <ul style="list-style-type: none"> • General ethical principles including explanation of 04 basic principles of Beneficence, non-maleficence, respect and justice. <ul style="list-style-type: none"> - Interpretation research ethics for; - Informed consent and confidentiality in research HR 	<p>apply the ethical codes as appropriate. C2</p> <ul style="list-style-type: none"> • Discuss the development of indigenous ethical codes in the South-East Asian Region. C2. • Demonstrate sensitivity to cultural diversity in medical care. C3 			
Practical session-1					
Affective & Psychomotor domain					
Broad Topic	Major Syllabus with Sub-Topics	Learning Objectives	Teaching Strategy	Assessment Tools And	Suggested Reading Sources
Laboratory Ethics	<p>Discussion will cover basic elements of Laboratory Ethics focusing;</p> <ul style="list-style-type: none"> • Importance of medical professionalism for the medical student; including respect and gratitude towards colleagues 	<p>At the end of the session students should be able to ;</p> <ul style="list-style-type: none"> • Understand the importance of taking permission before performing procedures (drawing blood, administering injections etc.) during laboratory sessions <p>.A1</p>	<p>Case based discussion in 2 hr contact session in 4-6 parallel classes conducted by faculty of respective departments</p> <p>Role plays</p>	<p>Assignment based assessment under aggregate Marks (Internal Assessment)</p> <p>Assignment to be uploaded on LMS</p>	<ul style="list-style-type: none"> - Real life scenarios in form of Case base learning /problem based learning (PBL) To be share with students one week before the session <p>Introduction to criteria for assessment of behavior, code of conduct and professionalism at RMU</p>

	<ul style="list-style-type: none"> • Code of conduct: Collaboration, partnership, Teamwork , Maintaining dress code, religion obligations of medical doctor , focus on physicians' character, virtues and duties • Delineate the ethical consideration while performing procedures on real patients or simulated patients in Laboratory setting 	<ul style="list-style-type: none"> • Show Respects other health professional team members and complete assigned task in professional manner. A1 • Employ collaborative negotiation to resolve conflict, anger, confusion and misunderstanding. A2 	Reflective writing		
Ethics of research involving animals	<ul style="list-style-type: none"> • Scientific rationale for using animals in different phases of teachings of medical students 	<ul style="list-style-type: none"> • Understand the importance of maintaining animals rights and dignity while performing animal experimentation 	Small group interactive 4-6 interactive parallel sessions	Students seminar/ group presentation on proposed topic	https://www.nuffieldbioethics.org/wp-content/uploads/The-ethics-of-research-involving-animals-full-report.pdf

<p style="text-align: center;">Ethical Dilemma</p>	<p style="text-align: center;">-</p> <ul style="list-style-type: none"> • Historical perspective of famous ethical dilemmas and its relevance with development of codes and components of contemporary bioethics (an individual components will be expanded/repeated using real cases from historical breaches in ethics) 	<ul style="list-style-type: none"> • Understand the historical perspective of medical ethics and its relevance in development of modern codes and law • Explicate the background of ethical codes (Nuremberg code) and importance of ethics in health research 	<p>Short presentation: Ethical principles in medical practice</p> <ul style="list-style-type: none"> • Brainstorming: interactive session to identify the potential breaches of ethical principle in medical practice. • Group work: Measures to promote ethical principles in medical practice. 	<p>Role plays Video demonstration</p> <p>"The Deadly Deception," Nova video written, produced and directed by Denise Di Ani, WGBH Boston, 1993 production. [This video is owned by many libraries and is currently distributed by Films for the Humanities and Sciences, P.O. Box 205, Princeton, NJ 08543-2053 https://onlineethics.org/cases/ethics-science-classroom/tuskegee-syphilis-study</p>	<p>Cases in Medical Ethics https://www.scu.edu/ethics/focusareas/bioethics/resources/cases-in-medical-ethics-student-led-discussions/ WHO Handbook of Medical Ethics: Part 1/ Chapter 1: Ethics and medical ethics and Chapter 2: Human civilization and medical ethics from WHO Handbook of Medical Ethics, 2009</p> <p>George J Annas; Michael A Grodin, eds. The Nazi doctors and the Nuremberg Code: human rights in human experimentation, New York: OUP; 1992</p> <p>Watts J. Tokyo Victims of Japan's notorious Unit 731 sue. Lancet. 2002 August 24; 360 (9333): 628</p> <p>Final Report of the Tuskegee Syphilis Study Legacy Committee. University of Virginia Health Systems. 1996. Available from: http://www.hsl.virginia.edu/historical/medical_history/bad_blood/report.cfm</p> <p>Tanne JH. President Obama apologises to Guatemala over 1940s syphilis study. News, BMJ. 2010 October 4; 341: c5494.</p>
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Implementation of Biomedical Ethics Curriculum First Year MBBS

Theoretical Component (Integrated Bioethics Methods -1)				
Sr. No	Date/ Day	Time	Topics	Module
1.	22-02-2023 Wednesday	10:00am – 11:00am	Introduction to History of Medical Ethics	Foundation Module
2.	31-03-2023 Wednesday	11:00am – 12:00pm	Islamic Concept of Bioethics	MSK-I Module
3.	18-05-2023 Thursday	11:00am – 12:00pm	Introduction to Professional Ethics and PM&DC Code of Conduct	MSK-II Module
4.	10-06-2023 Saturday	11:00am – 12:00pm	History of Medical Ethics	
Practical Sessions				
1.	08-08-2023 Tuesday	10:00am – 11:00am	Laboratory Ethics	Blood & Immunity Module
2.	15-08-2023 Tuesday	09:00am – 10:00am	Ethics of Research Involving Animals	
3.	18-08-2023 Friday	08:00am – 09:00am	Ethical Dilemma	

Integrated Undergraduate Research Curriculum (IUGRC) First Year MBBS

Theoretical Component (4 LGIS)		
	Topic	Learning Objectives
LGIS1	Introduction to Health Research (HR) & Health Research Methods (HRM)- an overview (what & why and how research)	<ul style="list-style-type: none"> • Define Health Research & Concept of Health research methods. • Understand background and value of research in health & human development • Elaborate Fundamental types and fields of health research covering; <ul style="list-style-type: none"> - Basic & Applied Research - Quantitative & Qualitative Research - Collaborative & Multidisciplinary research - Health Research triangle • Conceptualize the drivers of research Including; <ul style="list-style-type: none"> - Curiosity - Health needs - Opportunity Profit • Describe meanings of HR & HRM • Appreciate role of HR in healthcare practices and human development • Differentiate among various types and fields of HR • Explain different drivers of HR
LGIS 2	Characteristics of research process and researcher	<ul style="list-style-type: none"> • Explain meanings of various characteristics of health research process so as to • Differentiate research activity from non-research activity. • Elaborate ingredients of researcher • Appreciate the importance of commands in certain pre-requisite subjects & skills before undertaking a research study. • Define Health Research

		<ul style="list-style-type: none"> • Discuss the criteria for selection of a research topic • Elaborate the types of variable • Differentiate between qualitative and quantitative data
LGIS 3	Basis of Ethics in Health Research (III)	<ul style="list-style-type: none"> • Appreciate value of ethics in conduct of Health Research. • Explain basic ethical principles of health research. • Interpret the application of data collection ethics • Explain ethics of research methods
LGIS 4	Basis of Ethics in Health Research (IV)	<ul style="list-style-type: none"> • Narrate responsibility for ethics in HR. • Explain Nuremburg code and importance of ethics in current research trends. • Elaborate General ethical principles including explanation of 04 basic principles of Beneficence, non-maleficence, respect and justice
Practical Components of IUGRC-1st Year MBBS		
Students Practical Session 1	(placement in 1 st Module) (work track & assessment by Log-Book)	In supervised session, at the end of the session, participants would be able to; (Los) 1. Comprehend the “theme and scheme” of IUGRC-1 st Year Practical component.
Practical session 2	(placement in 2 nd Module) (work track & assessment by Log-Book)	In supervised session, after individual work sharing & supervised brainstorming (PAL) on ideas on broader areas UEIH-Poster formation, students will: (session outlines or Los) 1. Identify specific areas of work within the border area of study done after 1 st Practical session. 2. Do earlier discussion on sub-topics to sub-groups on specific area or topic for UEIH for Poster formation.
Practical session 3	(placement in 3 rd Module) (work track & assessment by Log-Book) Present the individual work assigned before whole group.	Present the individual work assigned before whole group.
Practical session 4	(placement in 4 th Module) (work track & assessment by Log-Book)	Present initial format of the UEIH-Poster

Practical session 5	(placement in 5 th Module) (work track & assessment by Log-Book)	Discussion Poster Presentation 1. Write the scientific references under some format
Practical session 6	wrap up session.	Review of task done in session 5 (Bringing it altogether)

Implementation of Integrated Undergraduate Research Curriculum First Year MBBS

Theoretical Component (Integrated Bioethics Methods -1)				
Sr. No	Date/ Day	Time	Topics	Module
1.	16-02-2023 Thursday	01:00pm – 02:00pm	Introduction to Health Research (HR) & Health Research Methods (HRM)	Foundation Module
2.	18-02-2023 Saturday	01:00am – 02:00pm	Characteristics of research process and researcher	
3.	23-02-2023 Thursday	08:00am – 09:00am	Basis of Ethics in Health Research (III)	
4.	02-03-2023 Thursday	09:00am – 10:00am	Basis of Ethics in Health Research (IV)	
5.	27-04-2023 Thursday	10:00am – 11:00am 11:00am – 12:00pm		
Practical Component				
1.	01-06-2023 Thursday	11:00am – 12:00pm	Comprehend the “theme and scheme” of IUGRC-1 st Year Practical component.	MSK-II Module
2.	08-06-2023 Thursday	10:00am – 12:00pm	Identify specific areas of work within the border area of study done after 1 st Practical session. Do earlier discussion on sub-topics to sub-groups on specific area or topic for UEIH for Poster formation.	
3.	17-08-2023 Thursday	10:00am – 12:00pm	Present the individual work assigned before whole group.	Blood & Immunity
4.	14-09-2023 Thursday	10:00am – 11:00am	Present initial format of the UEIH-Poster	CVS Module
5.	14-10-2023 Saturday	10:00am – 11:00am	1. Discussion on Poster Presentation 2. Write the scientific references under some format	Respiration Module

Artificial Intelligence (AI) First Year MBBS

Guest Lecture



RAWALPINDI MEDICAL UNIVERSITY			
DOC. TITLE: NOTICES AND LETTERS			
DOCUMENT #: RMU-DME-SOP-18	Rev. #: 00	ISSUE #: 01	ISSUE DATE: 13-09-2023

OFFICE OF THE VICE CHANCELLOR
RAWALPINDI MEDICAL UNIVERSITY
RAWALPINDI.
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Email: info@rmur.edu.pk

No. R-23/ 1311 /RMU, Dated: 13/09/2023

NOTIFICATION

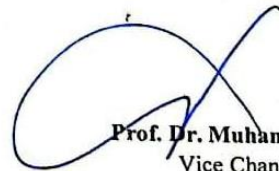
All respected faculty members and all students of First Year MBBS are hereby directed to attend the guest lecture on Artificial Intelligence by **Dr. Syed Safwan Khalid (PHD/Post doc in Artificial Intelligence (AI) Associate Professor in Comsats University, Director of Artificial Intelligence in Epic games.**

Venue: New Lecture Theater Complex Hall No. 02

Date: 14-09-2023

Time: 10:00am – 11:00am

Note: Students attendance is mandatory for above said session.


Prof. Dr. Muhammad Umar
Vice Chancellor
Rawalpindi Medical University
Rawalpindi

***Artificial Intelligence** was taught throughout the year in each LGIS relevant to topic

Artificial Intelligence (AI) First Year MBBS

Theoretical Component (Integrated Bioethics Methods -1)				
Sr. No	Date/ Day	Time	Topics	Module
1.	16-02-2023 Thursday	01:00pm – 02:00pm	Introduction to Health Research (HR) & Health Research Methods (HRM)	Foundation Module
2.	18-02-2023 Saturday	01:00am – 02:00pm	Characteristics of research process and researcher	
3.	23-02-2023 Thursday	08:00am – 09:00am	Basis of Ethics in Health Research (III)	
4.	02-03-2023 Thursday	09:00am – 10:00am	Basis of Ethics in Health Research (IV)	
Practical Component				
1.	01-06-2023 Thursday	11:00am – 12:00pm	Comprehend the “theme and scheme” of IUGRC-1 st Year Practical component.	MSK-II Module
2.	08-06-2023 Thursday	10:00am – 12:00pm	Identify specific areas of work within the border area of study done after 1 st Practical session. Do earlier discussion on sub-topics to sub-groups on specific area or topic for UEIH for Poster formation.	
3.	17-08-2023 Thursday	10:00am – 12:00pm	Present the individual work assigned before whole group.	Blood & Immunity
4.	14-09-2023 Thursday	10:00am – 11:00am	Present initial format of the UEIH-Poster	CVS Module
5.	14-10-2023 Saturday	10:00am – 11:00am	3. Discussion on Poster Presentation 4. Write the scientific references under some format	Respiration Module

Family Medicine First Year MBBS

Theoretical Component (Integrated Bioethics Methods -1)				
Sr. No	Date/ Day	Time	Topics	Module
1.	05-04-2023 Wednesday	10:30am – 11:30am	Approach to a patient with Body aches	MSK-I Module
2.	13-09-2023 Wednesday	09:00am – 10:00am	Approach to a patient with Chest Pain	CVS Module
3.	12-10-2023 Thursday	11:00am – 12:00am	Approach to a patient with cough hemoptysis & shortness of breath	Respiration Module