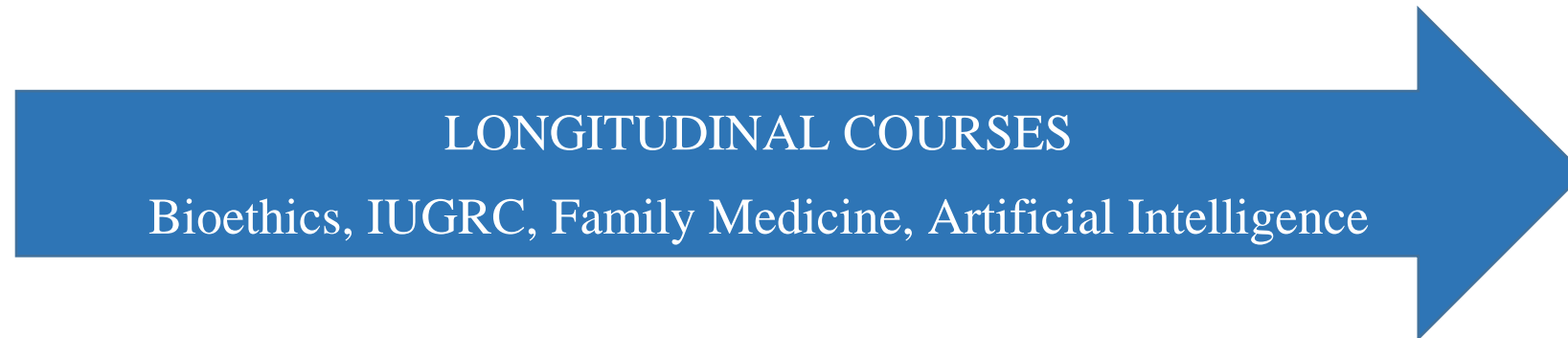


**RAWALPINDI MEDICAL UNIVERSITY  
DEPARTMENT OF MEDICAL EDUCATION**



**IMPLEMENTATION OF LONGITUDINAL COURSES**



## Bioethics Curriculum Second Year MBBS

Theoretical Component (Integrated Bioethics Methods-II)					
Major Syllabus With Sub-Topics	Learning Objectives	Teaching Strategy	Assessment Tools	Suggested Reading Sources	
<b>Session-1</b> <b>Time: 60-min</b> <b>Cognitive Domain</b>					
<b>Pakistan Medical &amp; Dental Council Code of Ethics</b>	<p>Discussion will cover;</p> <ul style="list-style-type: none"> <li>• Pakistan Medical &amp; Dental Council Code of Ethics for Practice for Medical and Dental Practitioners</li> <li>• Oath/Declaration by a Registered Medical or Dental Practitioner at time of graduation</li> <li>• Role of regulatory body PM&amp;DC/PMC in maintaining ethical standards for medical/dental graduates</li> <li>• Authority of PM&amp;DC as regulatory body to take disciplinary actions, which may be required for criminal convictions</li> </ul>	<p>At the end of the session students should be able to;</p> <ul style="list-style-type: none"> <li>• Appreciate the value of oath and pledge taken by medical student at the time of graduation from medical school. <b>C2</b></li> <li>• Appraise the importance of principles to be followed by the medical and dental practitioners to fulfil the social contract with the society in order to win the trust of the public in the profession. <b>C2</b></li> <li>• Cognizant with disciplinary proceedings in case</li> </ul>	<p>LGIS 1hr contact session in 2-4 parallel classes will be conducted by Senior Faculty From Basic Sciences (Anatomy, Physiology &amp; Biochemistry)</p>	<p>1 MCQs of level C1 to C3 will cover this session teachings in relevant block examination</p> <p>Result / marks obtained will contribute towards Internal assessment (IA) in 2<sup>nd</sup> Prof. MBBS exam.</p>	<p><a href="https://www.pmc.gov.pk/Documents/law/PMDC%20Code%20of%20Ethics%202018.pdf">https://www.pmc.gov.pk/Documents/law/PMDC%20Code%20of%20Ethics%202018.pdf</a></p> <p>section 3 ( Principles of Medical Ethics in Social Context), page 21</p>

	<p>or serious professional misconduct of a doctor.</p> <ul style="list-style-type: none"> <li>• History and legal framework of the Pakistan Medical and Dental Council (PMDC)</li> <li>• Jurisdiction of the Pakistan Medical and Dental Council (PMDC)</li> </ul>	<p>of violation of rules laid down by regulatory body</p>			
<p><b>Session-2</b> <b>Time:60 Mins</b></p>					
<p><b>Islam &amp; Teachings of Bioethics</b></p>	<p>Discussion will cover;</p> <ul style="list-style-type: none"> <li>•Islam the Teaching of Medical Ethics</li> <li>•Oath of Muslim doctor</li> <li>• Islamic principles of medical ethics corresponding to autonomy , beneficence, non-maleficence and justice</li> </ul>	<p>At the end of the session students should be able to;</p> <ul style="list-style-type: none"> <li>• Conceptualize the Islamic teachings of medical ethics</li> <li>• Outline the main points in oath of Muslim doctor</li> <li>• Correlate the 4 principle of medical ethics with principles of Islamic medical ethics,</li> </ul>	<p>LGIS 1hr contact session in 2-4 parallel classes will be conducted by Senior Faculty From Basic Sciences (Anatomy, Physiology &amp; Biochemistry)</p>	<p>1 MCQs of level C1 to C3 will cover this session teachings in relevant block examination</p> <p>Result / marks obtained will contribute towards Internal assessment (IA) in 2<sup>nd</sup> Prof. MBBS exam.</p>	<p><a href="http://jsmu.edu.pk/assets/docs/updates/news/20181218%20OATH%20CONVOCATION%20FOR%20MBBS.PDF">http://jsmu.edu.pk/assets/docs/updates/news/20181218%20OATH%20CONVOCATION%20FOR%20MBBS.PDF</a></p> <p><a href="http://nbcPakistan.org.pk/assets/may-16-bioethics-facilitator-book---may-16%2c-2017.pdf">http://nbcPakistan.org.pk/assets/may-16-bioethics-facilitator-book---may-16%2c-2017.pdf</a> (PAGE- 49)</p> <p>Pakistan and Biomedical Ethics: Report from a Muslim Country Special Section: International Voices Farhat Moazam, Aamir M. Jafarey</p> <p>The international Islamic code for medical and health ethics : december 11-14, 2004 29 shawwal - 2 zu alkaida Cairo, Egypt</p>

<p style="text-align: center;"><b>Ethics of social media &amp; advertising</b></p>	<p>Discussion should cover;</p> <ul style="list-style-type: none"> <li>• Ethics of social media &amp; advertising</li> <li>• Ethics involve in Publishing or broadcasting information Certificates, Reports and other documents Teaching Photography and Consent</li> </ul>	<p>At the end of the session students should be able to;</p> <ul style="list-style-type: none"> <li>• Delineate the principles of ethics involved in social media &amp; advertising including;</li> <li>• Publishing or broadcasting information Certificates, Reports and other documents Teaching Photography and Consent</li> </ul>	<p>LGIS 1hr contact session in 2-4 parallel classes will be conducted by Senior Faculty From Basic Sciences (Anatomy, Physiology &amp; Biochemistry)</p>	<p>1 MCQs of level C1 to C3 will cover this session teachings in relevant block examination</p> <p>Result / marks obtained will contribute towards Internal assessment (IA) in 2<sup>nd</sup> Prof. MBBS exam.</p>	<p><a href="http://nbcPakistan.org.pk/assets/may-16-bioethics-facilitator-book---may-16%2c-2017.pdf">http://nbcPakistan.org.pk/assets/may-16-bioethics-facilitator-book---may-16%2c-2017.pdf</a> (PAGE 49)</p>
<p style="text-align: center;"><b>Ethical principles</b></p>	<p>Discussion should cover;</p> <ul style="list-style-type: none"> <li>• Ethical principles (autonomy, beneficence, confidentiality, privacy, justice)</li> </ul>	<p>At the end of the session students should be able to;</p> <ul style="list-style-type: none"> <li>• Elaborate General ethical 06 basic ethical principles: autonomy, beneficence, non-maleficence &amp; justice</li> <li>• Explain the process of ensuring patient autonomy, beneficence, non-maleficence, respect &amp; justice while</li> </ul>	<p>LGIS 1hr contact session in 2-4 parallel classes will be conducted by Senior Faculty From Basic Sciences (Anatomy, Physiology &amp; Biochemistry)</p>	<p>1 MCQs of level C1 to C3 will cover this session teachings in relevant block examination</p> <p>Result / marks obtained will contribute towards Internal assessment (IA) in 2<sup>nd</sup> Prof. MBBS exam.</p>	<p><a href="http://nbcPakistan.org.pk/assets/may-16-bioethics-facilitator-book---may-16%2c-2017.pdf">http://nbcPakistan.org.pk/assets/may-16-bioethics-facilitator-book---may-16%2c-2017.pdf</a></p>

		informing/ deciding on a treatment modality			
<b>Practical Session- Time: 120 min each (2hrs)</b>					
<b>Ethical dilemmas Involving breach in Autonomy</b>	<p>Discussion should cover;</p> <ul style="list-style-type: none"> <li>Ethical dilemmas in healthcare practice involving breach in principle of autonomy</li> </ul>	<p>At the end of the session students should be able to;</p> <ul style="list-style-type: none"> <li>Analyze ethical dilemmas in healthcare practice involving breach in principle of autonomy</li> <li>Explain what procedures adopted to maintain patient autonomy</li> <li>Identify situations in which a doctor may have to take decisions in the best interests of the patient</li> </ul>	<p>Short video demonstration on violation of Ethical principle of autonomy from suit CBEC Video resources</p>	<p>Assignment based assessment involving real life case scenarios under aggregate Marks ( Internal Assessment )</p> <p>Assignment to be uploaded on LMS</p>	<p><a href="https://siut.org/bioethics/cbec-videos/">https://siut.org/bioethics/cbec-videos/</a></p>
<b>Ethical dilemmas Involving breach in beneficence and non-maleficence</b>	<p>Discussion should cover;</p> <ul style="list-style-type: none"> <li>Ethical dilemmas in healthcare practice involving breach in principle of beneficence and non-maleficence</li> </ul>	<p>At the end of the session students should be able to;</p> <ul style="list-style-type: none"> <li>Analyze ethical dilemmas in healthcare practice involving breach in principle of beneficence and non-maleficence</li> </ul>	<p>Short video demonstration on violation of Ethical principle of beneficence and non-maleficence from suit CBEC Video resources</p>	<p>Assignment based assessment involving real life case scenarios under aggregate Marks ( Internal Assessment )</p> <p>Assignment to be uploaded on LMS</p>	<p><a href="https://siut.org/bioethics/cbec-videos/">https://siut.org/bioethics/cbec-videos/</a></p>

		<ul style="list-style-type: none"> <li>• Explain what procedures adopted to maintain the principle of beneficence and non-maleficence in challenging situations</li> <li>• Identify situations in which a doctor may have to take decisions in the best interests of the patient considering the principle of beneficence and non-maleficence</li> </ul>	<p>Students deliberations and reflections</p> <p>Reflective writing</p>		
<b>Ethical dilemmas Involving breach in Justice</b>	<p>Discussion should cover;</p> <p>Ethical dilemmas practice involving breach in principle of justice</p>	<p>At the end of the session students should be able to;</p> <ul style="list-style-type: none"> <li>• Analyze ethical dilemmas in healthcare practice involving breach in principle of justice</li> <li>• Explain what procedures adopted to maintain the principle of justice in challenging situations</li> <li>• Identify situations in which a doctor may</li> </ul>	<p>Short video demonstration on violation of Ethical principle of beneficence and non-maleficence from suit CBEC Video resources</p> <p>Students deliberations and reflections</p> <p>Reflective writing</p>	<p>Assignment based assessment involving real life case scenarios under aggregate Marks ( Internal Assessment )</p> <p>Assignment to be uploaded on LMS</p>	<p><a href="https://siut.org/bioethics/cbec-videos/">https://siut.org/bioethics/cbec-videos/</a></p>

		have to take decisions in the best interests of the patient considering the principle of justice			
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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.	04-02-2023 Saturday	09:30am – 10:20am	Pakistan Medical & Dental Council Code of Ethics	GIT Module
2.	13-03-2023 Monday	11:30am – 12:20pm	Islam & Teachings of Bioethics	Renal Module
3.	14-03-2023 Tuesday	11:30am – 12:20pm	Ethics of Social Media & Advertising	
4.	20-03-2023 Monday	10:20am – 11:10am	Ethical Principles	
5.	11-05-2023 Thursday	11:10am – 12:00pm	Ethical dilemmas Involving breach in beneficence and non-maleficence	Reproduction Module
6.	16-05-2023 Tuesday	10:20am – 11:10am	Ethical dilemmas Involving breach in Autonomy	Special Senses Module
7.	24-08-2023 Thursday	10:20am – 11:10am	Ethical dilemmas Involving breach in Justice	
8.	28-09-2023 Wednesday	10:20am – 11:10am	History of Medical Ethics	Endocrinology Module



## Integrated Undergraduate Research Curriculum (IUGRC) Second Year MBBS

Theoretical Component (4 LGIS)		
	Topic	Learning Objectives
Lecture 1	Introduction to Descriptive Statistics	Define & enlist uses of statistical knowledge in research & healthcare profession. Differentiate descriptive statistics form inferential statistics Appreciate value of information & precision in scientific decision making
Lecture 2	Classification of different types of Data	Describe the concept of data , variable & sources of data with respect to descriptive statistics Enlist data types with examples from medical background Classify types of data with examples (qualitative & quantitative) Exercise on the identification of different types of data
Lecture 3	Scales of Data Measurement	Enlist types of data measurement scales Elaboration of different types of data measurement scales with example Enlist different method of data presentation (tables, graphs, diagrams, pie chart, Bar graph, histogram. line diagram scatter diagram, statistical maps, pictogram and ogive curve) according to type of data.
Lecture 4	Measure of central tendency	Explain concept of Measures of central tendency with illustrations form medical background Calculate and interpret the different measures of central tendency
Lecture 5	Measures of Dispersion	Explain concept of Measures of dispersion with illustrations form medical background Calculate and interpret the different measures of dispersion

Lecture 6	Practice Session	Compute and Interpret results of different measures of dispersion form a given data file Compute and Interpret results of different measures of dispersion form a given data file
<b>Practical Component</b>		
Practice Session 1	How to generate a research question according to FINER Criteria	Formulate the research question according to PICOT format – problem/population, intervention, comparison, outcome and time frame To understand how a properly formulated research question is related to an efficient literature review Development of research protocol including research objectives
Practice session 2	Orientation to SPSS software	How to make variables
Practice session 3	Data entry and coding in SPSS File	
Practice session 4	Data Analysis(Descriptive analysis ) according to research objectives	
Practice session 5	How to write a report /manuscript	
Practice session 6	Finalization of Report writing	Submission at SJRMC/any other medical journal

## Implementation of Integrated Undergraduate Research Curriculum Second Year MBBS

<b>Theoretical Component (Integrated Bioethics Methods -1)</b>				
Sr. No	Date/ Day	Time	Topics	Module
1.	14-02-2023 Tuesday	11:00am – 12:00pm	Introduction to Descriptive Statistics PMDC Code of Ethics	GIT Module
2.	21-02-2023 Tuesday	10:20am – 11:10am	Classification of different types of Data	
3.	23-02-2023 Thursday	09:30am – 10:20am	Scales of Data Measurement	
4.	24-02-2023 Friday	08:00am – 09:00am	Measure of Central Tendency	
5.	02-06-2023 Thursday	09:30am – 10:20am	Measures of Dispersion	
<b>Practical Component</b>				
1.	29-03-2023 Wednesday	10:00am – 11:00am	How to generate a research question according to FINER Criteria	Renal Module
2.	18-05-2023 Thursday	10:20am – 11:10am	Orientation to SPSS software	Reproduction Module
3.	23-08-2023 Wednesday	10:20am – 12:00pm	Data entry and coding in SPSS File	Special Senses Module
4.	20-09-2023 Wednesday	10:20am – 12:00pm	Data Analysis (Descriptive analysis) according to research objectives	Endocrinology Module
5.	27-09-2023 Wednesday	10:20am – 12:00pm	Poster Presentation	

## **Artificial Intelligence (AI) Second Year MBBS**

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

## Family Medicine Second Year MBBS

<b>Theoretical Component (Integrated Bioethics Methods -1)</b>				
Sr. No	Date/ Day	Time	Topics	Module
1.	04-03-2023 Saturday	11:10am – 12:00pm	Common Abdominal Diseases	GIT Module
2.	03-04-2023 Monday	08:00am – 09:00am	Renal Failure	Renal Module
3.	22-08-2023 Tuesday	10:20am – 11:10am	Approach to a patient with ear ache	Special Senses Module
4.	02-10-2023 Monday	11:10am – 12:00om	Approach to a patient with diabetes militias	Endocrinology Module