

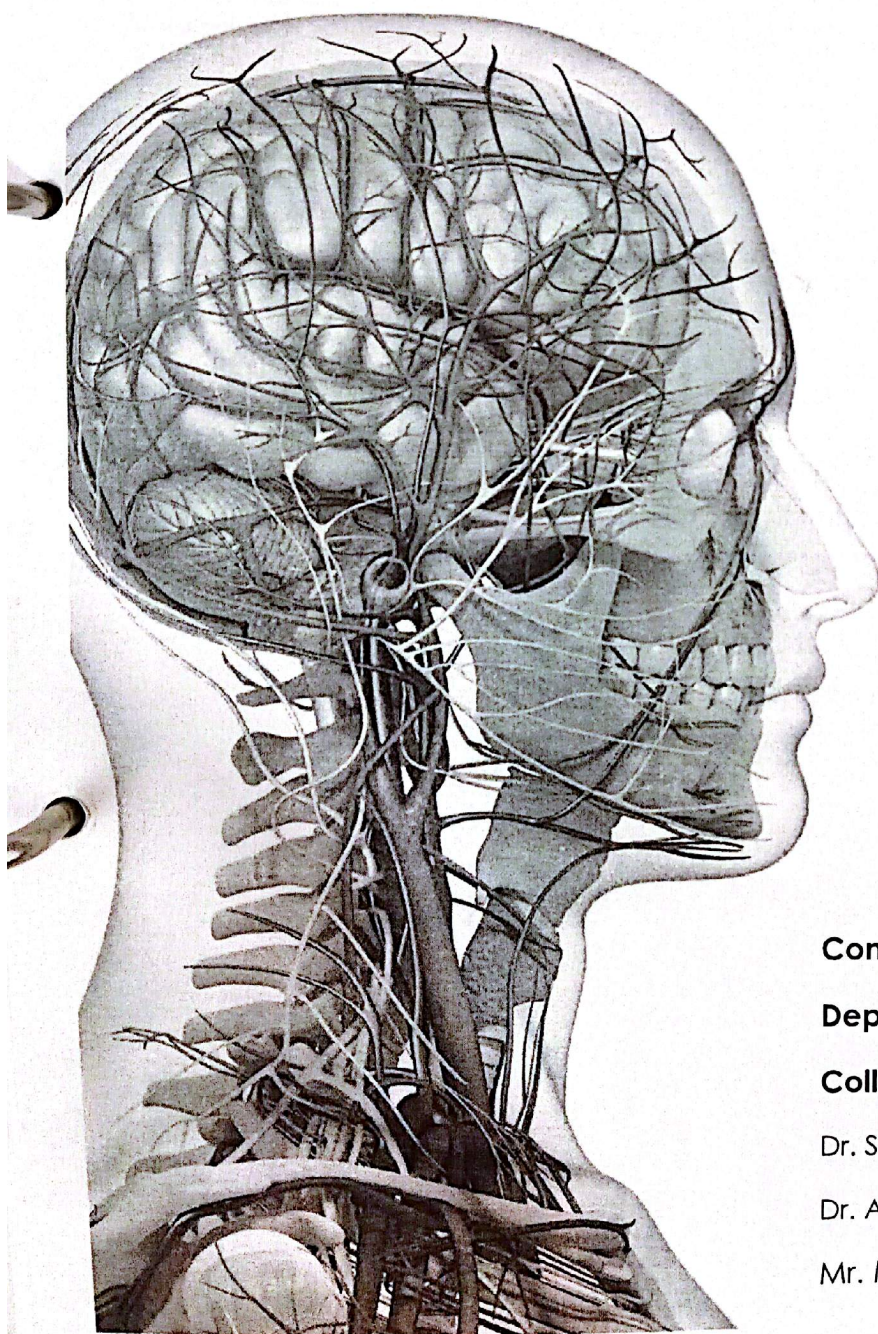


STUDY GUIDE – 2026

First Year BDS

Batch- XXVII (27)

"Heartfelt gratitude to all departments for supporting and collaborating efficiently for compiling of this study guide"



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RESEARCH				
Topic	Objectives	Learning Strategy	KSA Competencies Knowledge/ Skill/ Attitude	Assessment Tools
Writing rationale of the study	- Write the background which should lead to the rationale for the study - Writing and justification of the rationale of study	Tutorial	KSA	Formative Group project
Writing the objectives, inclusion and exclusion criteria and operational definitions of the study	- Discuss the importance of the research objective and operational definitions and it's writing - Explain the inclusion and exclusion criteria's in methodology	Lecture	KSA	Summative Assignment



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RESEARCH				
Topic	Objectives	Learning Strategy	KSA Competencies Knowledge/Skill/ Attitude	Assessment Tools
How to Perform Literature Search	Perform literature search by using Boolean Search	Tutorial /Workshop	KSA	Summative Assignment
Observational analytical study design; cross-sectional study	- Discuss the importance of these research designs in health care provision - Explain the methodology of these research designs	Lecture	KSA	Formative Group project
Observational analytical study design: case control study and odds ratio	- Discuss the importance of these research designs in health care provision - Explain the methodology of these research designs	Lecture	KSA	Formative Group project
Observational analytical study design: cohort study and relative risk	- Discuss the importance of these research designs in health care provision - Explain the methodology of these research designs	Lecture	KSA	Formative Group project
Experimental studies:	- Discuss the importance of these research designs in health care provision - Explain the methodology of these research designs	Lecture	KSA	Formative Group Project



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RESEARCH				
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Experimental studies: Quasi experimental study	Discuss the importance of these research designs in health care provision	Lecture	KSA	Formative Group project
Estimating sample size	- Calculate sample size based on prescribed guidelines - Justify sample size for their research project Demonstrate the use of Appropriate software for	Lecture	KSA	Formative Group project
Sampling Techniques	- Classify sampling techniques - Appropriately choose sampling technique according to study design	Lecture	KSA	Formative Group project



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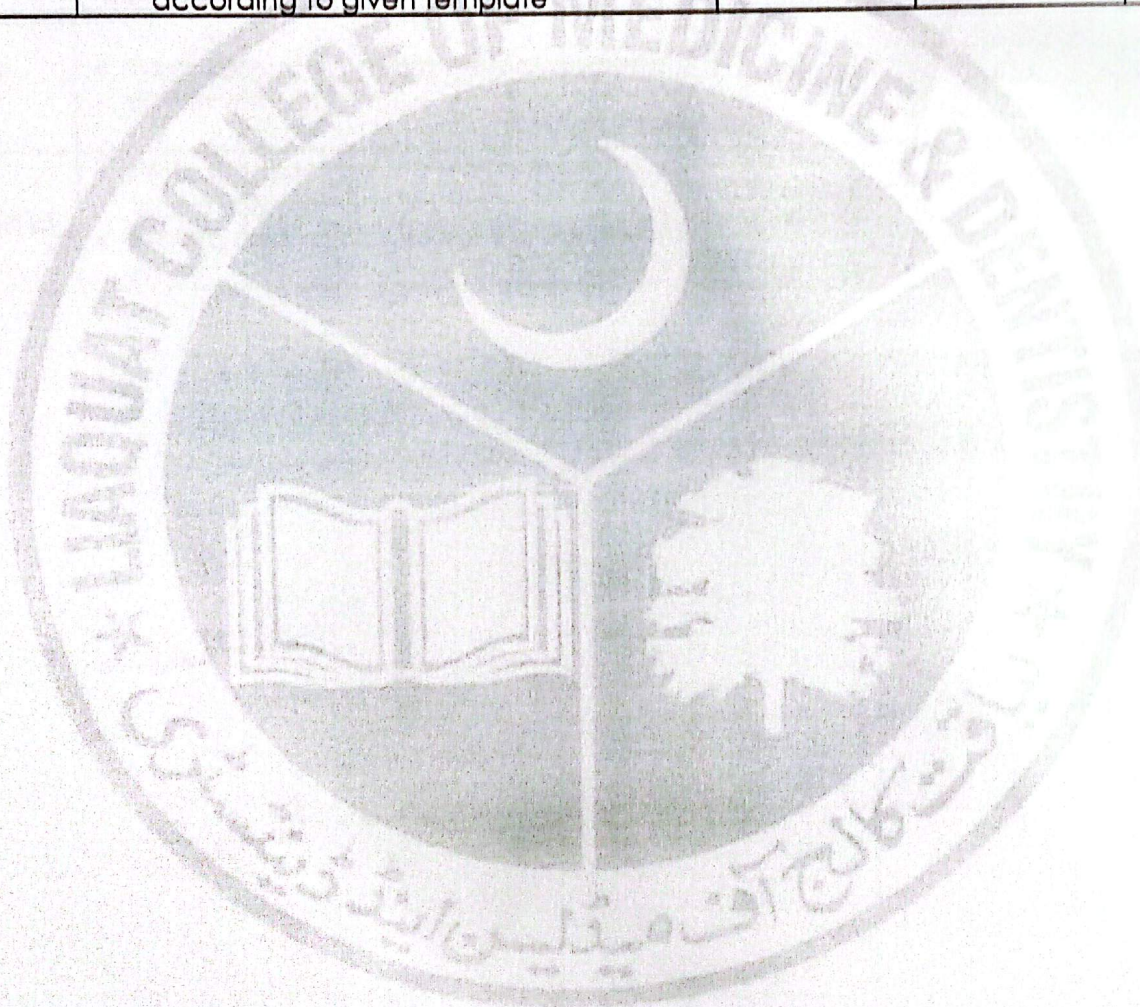
RESEARCH				
Topic	Objectives	Learning Strategy	KSA Competencies Knowledge/ Skill/ Attitude	Assessment Tools
Hypothesis, its types and errors in hypothesis testing	• Classify hypothesis • Explain types of erosion hypothesis testing • Discuss how the errors can be prevented	Lecture	KSA	Summative Assignment
Designing a questionnaire	• Define purpose and scope of the questionnaire. • Identify relevant variables to be measured. • Select suitable question types (e.g., multiple-choice, Likert scale). • Construct clear, concise, and unambiguous questions. • Ensure validity and reliability of the questionnaire.	Lecture	KSA	Summative assignments research based



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RESEARCH				
Topic	Objectives	Learning Strategy	KSA Competencies Knowledge/ Skill/ Attitude	Assessment Tools
Synopsis Writing	- Write a research synopsis following standard guidelines. - To evaluate either their synopsis are according to given template	Lecture	KSA	Summative Assignment





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RESEARCH				
Topic	Objectives	Learning Strategy	KSA Competencies Knowledge/ Skill/ Attitude	Assessment Tools
Importance of Research in Health Care Profession	- Discuss the importance of research in health care provision - Identify the problems related To health in the community	Lecture	KSA	Summative Assignment
How to Formulate a Research Question	Formulate scientifically correct research questions	Lecture	KSA	Summative Assignment
Writing background of the study	- Write the background which should lead to the rationale for the study - Writing and justification of the rationale of study	Tutorial	KSA	Formative Group project