

# COURSE OUTLINE

**Subject:** Research Methods  
**Class:** LL.B. 9<sup>th</sup> Semester  
**Credit hours :** 3 credit hours (per week)  
12 credit per month  
36 credit hours per semester  
**Course Instructor:** Shah Muhammad Zarkoon  
Lecturer, University Law College, Quetta  
University of Balochistan, Quetta Pakistan

## RESEARCH METHODS

S.NO	CHAPTERS	TOPICS	ACTIVITIES
1	Research Methodology : An Introduction	<ol style="list-style-type: none"><li>1. Meaning of Research</li><li>2. Objectives of Research</li><li>3. Motivation in Research</li><li>4. Types of Research</li><li>5. Research Approaches</li><li>6. Significance of Research</li><li>7. Research Methods versus Methodology</li><li>8. Research Process</li><li>9. Criteria for Good Research</li><li>10. Problems faced by the Researchers</li></ol>	presentational skills ; has to be developed by students through recording online presentation and submitting the same at LMS, DIT University of Balochistan.

	<b>Problem</b>	<ol style="list-style-type: none"> <li>2. Selecting the Problem</li> <li>3. Necessity of Defining the Problem</li> <li>4. Techniques Involved in Defining a problem</li> <li>5. An Illustration</li> </ol>	<p>required to submit a synopsis on various social, legal and political issues/problems faced by society in Pakistan particularly in Balochistan, at LMS DIT UOB.</p>
3	Research Design	<ol style="list-style-type: none"> <li>1. Meaning of Research Design</li> <li>2. Need for Research Design</li> <li>3. Different Research Designs</li> <li>4. Basic Principles for Experimental Design</li> <li>5. Appendix ( Developing Research Plan)</li> </ol>	<p>Students ought to submit a formulated Research Design of their own; on problems and issues that they submitted as synopsis in last activity.</p>
4	Sampling Design	<ol style="list-style-type: none"> <li>1. Census and Sample Survey</li> <li>2. Implications and Sample Design</li> <li>3. Steps in Sampling Design</li> <li>4. Criteria of Selecting a Sampling procedure</li> </ol>	<p>Students are ought to prepare online presentations on topics in Chapter</p>

7	<b>Processing and Analysis of Data</b>	<ol style="list-style-type: none"><li>1. Processing Operations</li><li>2. Some Problems in Processing</li><li>3. Elements/ Types of Analysis</li><li>4. Statistics in Research</li><li>5. Measures of Central Tendency</li><li>6. Measures of Dispersion</li><li>7. Measures of Asymmetry ( Skewness)</li><li>8. Measures of Relationship</li><li>9. Simple Regression Analysis</li><li>10. Multiple Correlation and Regression</li><li>11. Partial Correlation</li><li>12. Association in Case of Attributes</li><li>13. Other Measures</li><li>14. Appendix : Summary Chart Concerning Analysis of Data</li></ol>	
8	Sampling Fundamentals	<ol style="list-style-type: none"><li>1. Need for Sampling</li><li>2. Some Fundamental Definitions</li><li>3. Important Sampling</li></ol>	

9.

**Testing of Hypothesis-I  
(Parametric or Standard Test  
Hypotheses)**

- 1. What is Hypothesis ?**
- 2. Basic Concepts  
Concerning Testing  
Hypotheses**
- 3. Procedure of  
Hypotheses Testing**
- 4. Flow Diagram for  
Hypothesis Testing**
- 5. Measuring the Power  
of a Hypotheses Test**
- 6. Tests of Hypotheses**
- 7. Important Parametric  
Tests**
- 8. Hypotheses Testing  
Means.**
- 9. Hypotheses Testing  
for Differences  
between Means**
- 10. Hypotheses Testing  
for Comparing two  
Related Samples**
- 11. Hypotheses Testing  
Proportions.**
- 12. Hypotheses Testing  
for Difference**

<b>10.</b>	<b>Chi-square Test</b>	<ol style="list-style-type: none"><li><b>1. Chi-square Test for comparing Variance</b></li><li><b>2. Chi-square as a Non-parametric Test</b></li><li><b>3. Conditions for Application of X<sup>2</sup> Test</b></li><li><b>4. Steps Involved in Applying Chi-square Test</b></li><li><b>5. Alternative Formula</b></li><li><b>6. Yates' Correction</b></li><li><b>7. Conversion of X<sup>2</sup> into Phi Coefficient</b></li><li><b>8. Conversion of X<sup>2</sup> into Coefficient by Contingency</b></li><li><b>9. Important characteristics of X<sup>2</sup> Test</b></li><li><b>10. Caution in Using X<sup>2</sup> Test</b></li></ol>	
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11.	Analysis of Variance and Covariance	<ol style="list-style-type: none"> <li>1. Analysis of Variance (ANOVA)</li> <li>2. What is ANOVA?</li> <li>3. The Basic Principle of ANOVA</li> <li>4. ANOVA technique</li> <li>5. Setting up Analysis of Variance Table</li> <li>6. Short-cut Method of One way ANOVA</li> <li>7. Coding Method</li> <li>8. Two-way ANOVA</li> <li>9. ANOVA in Latin – Square Design</li> <li>10. Analysis of Co-variance ( ANOCOVA)</li> <li>11. ANOCOVA Technique</li> <li>12. Assumption in ANOCOVA</li> </ol>	
12.	Testing of Hypotheses –II ( Nonparametric or Distribution-Free tests)	<ol style="list-style-type: none"> <li>1. Important Non-parametric or Distribution – Free test</li> </ol>	

- 1. Growth of Multivariate Techniques**
- 2. Characteristics of Applications**
- 3. Classification of Multivariate Techniques**
- 4. Variable in Multivariate Analysis**
- 5. Important Multivariate Techniques**
- 6. Important Methods of Factor Analysis**
- 7. Rotation in Factor Analysis**
- 8. R-type and Q-Type Factor Analysis**
- 9. Path Analysis**

<b>14.</b>	<b>Interpretation and Report Writing</b>	<ol style="list-style-type: none"><li><b>1. Meaning of Interpretation</b></li><li><b>2. Why Interpretation?</b></li><li><b>3. Technique of Interpretation</b></li><li><b>4. Precaution in Interpretation</b></li><li><b>5. Significance of Report Writing</b></li><li><b>6. Different Steps in Writing Report.</b></li><li><b>7. Layout of Research Report</b></li><li><b>8. Types of Reports</b></li><li><b>9. Oral Presentation</b></li><li><b>10. Mechanics of Writing A Research Report</b></li><li><b>11. Precautions for Writing Research Reports</b></li></ol>	
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15	<b>The Computer : Its Role in Research</b>	<ol style="list-style-type: none"><li>1. Introduction</li><li>2. The computer and Computer Technology</li><li>3. The Computer system</li><li>4. Important Characteristics</li><li>5. The Binary Number System</li><li>6. Computer Applications</li><li>7. Computers and Researcher</li></ol>	
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**IMPORTANT NOTE FOR STUDENTS OF LL.B. 9<sup>th</sup> Semester**

1. Lectures timing: Monday , Wednesday and Thursday : From 11: 00 AM to 12:30 PM
2. Assignments /Projects /Presentation are to be emailed by the students at LMS/DIT UOB's officially issued email address as being already conveyed you through emails.
3. Method of Lectures
  - (a) Through Live lectures from LMS (ZOOM) facilitation.
  - (b) Recorded lectures would also be emailed the enrolled students through LMS DIT, UOB
  - (c) Notes, Books and materials required by students will also be communicated at their respective emails