# Course Outline for Research Methodology

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| Program | **Program: Bachelors OF ARCHITECTURE (M. ARCH)****Course: AR-475: Research Methodology** |
| Duration | **Course: Fall Semester 2022** |
| Prerequisites | **none** |
| Resource Person | **Dr. Ayesha Mehmood Malik****Dr. Danyal Ahmed** |
| Counseling Timing | **As per time table** |
| Contact | https://mail.google.com/mail/u/0/images/cleardot.gif**Ayesha.malik@umt.edu.pk****danyal.ahmed@umt.edu.pk** |

**Chairman/Director Programme signature………………. Dean’s signature…………**

**Date………………………………….**

**Grade Evaluation Criteria**

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

**Marks Evaluation Marks in percentage**

Assignments 10%

Quiz 10%

Mid Term 20%

Research task-1 10%

Term Project 15%

Final exam 35%

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Total 100%

**AR-475**:                      **RESEARCH METHODOLOGY**

**Objectives:**

The primary objective of this course is to develop a research orientation among the scholars and to acquaint them with fundamentals of research methods. Specifically, the course aims at introducing them to the basic concepts used in research and to scientific social research methods and their approach. It includes discussions on sampling techniques, research designs and techniques of analysis.

**Syllabus:**

Research aims and philosophy: Research Paradigms; The nature of Research Degrees, Postgraduate research, regulation affecting higher degrees, The registration process, The reporting system; The appeals procedure; The roles of the student; Supervisor; Examiner. Organization and management of research, Literature search, Statistical concepts, Presentation and Scholarly writing, Field Surveys, Laboratory Experiments, data collection through Questionnaires and Interviews, Analysis of collected information, Seminars, Writing a Thesis, Publishing a Paper, research Funding, Procedure for conference papers and publication in Journals.

**Recommended Books:**

• **Research Design, Qualitative, Quantitative and mixed method approaches, John W Creswell.**

**• Essentials of Research Design and Methodology, Geofrey R Marchzyk.**

**• Researhc Methodology. A step by step guide for beginners, Ranjit Kumar.**

**• Babbie, Earl. “ *Practice of Social Research”,*  Bryman, Alan. “*Social Research Methods”***

**• Bordens, Kenneth and Bruce Abbot. “*Research Design and Methods”***

**• Kothari, B.L. “*Research Methodology – Tools and Techniques”***

**• Krathwohl, David. “*How to Prepare a Research Proposal”***

**• Freeman, Rossi. “*Evaluation”***

**• Holliday, Adrian. “*Doing and Writing Qualitative Research”***

**• Kirk, Jerome and Marc Millar. “*Reliability and Validity in Qualitative Research”***

**• Cochran. “*Sampling Techniques”* Cash, Phyllis. “*How to write Research Paper – Step by Step”***

**• Ranjit Kumar*, Research Methodology.***

**• Earl Babbie*, Social Research Methods.***

**Reference Books:**

**Research Methods**; the basics by Nicholas Willman

**Research Methodology:** a step by step guide by Ranjit Kumar

**Social Research Methods** by Nicholas Willman

**Calendar of Course contents to be covered during semester**

**Course code:** AR-475 **Course title:** Research Methodology

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|  **Week** |  **Course Contents**  | **Reference Chapter(s)** |
|  1 | Introduction to subject. What is **Research?** Meaning, objectives, types, Importance of Research. Defining Architectural Research | First Chapter of both text books. |
|   2 | **Research in Architecture;** its roots**Conceptual framework** in employing methodology**Strategy and Tactics** | First Chapter of book, ”Architectural Research Methods” |
|  3 | Methodology versus Methods ( Strategy and Tactics)Research task -1 Introduced. | Second Chapter of book, ”Architectural Research Methods”AndFirst Chapter of book, ”Research Methodology; Methods and Techniques” |
|  4 | **Steps involved in the research process:** An overviewResearch task -1 PROGRESS | First Chapter of book, ”Research Methodology; Methods and Techniques” (P-10-P-19)Overview research Process in book “Social Research Methods” |
|  5 | **Steps involved in the research process:** An overview | **First Chapter** of book, ”Research Methodology; Methods and Techniques” *(P-10-P-19)*Overview research Process in book “Social Research Methods” |
|  6 | Design and Research in ArchitectureThe role of Deduction and Induction in both design and ResearchDeductive Reasoning and Inductive Reasoning | **Second Chapter** of book, ”Architectural Research Methods” |
|   7 | Design and Research in ArchitectureThe role of Deduction and Induction in both design and ResearchDeductive Reasoning and Inductive ReasoningResearch task -1 SUBMISSION | **Second Chapter** of book, ”Architectural Research Methods” |
|  8 | Mid Term Exams | ------- |
|  9 | Methods of Data CollectionCollecting Data from **Primary Sources**Observation | **Chapter 9** from “Research Methodology:” by *Ranjit Kumar* **Chapter 6** from “ Research Methodology” by *C.R.Kothari* |
| 10 | Collecting Data from **Primary Sources**Interviews | Chapter 9 from “Research Methodology:” by Ranjit Kumar**Chapter 6** from “ Research Methodology” by *C.R.Kothari* |
| 11 | Collecting Data from **Primary Sources**Questionaire | Chapter 9 from “Research Methodology:” by Ranjit Kumar**Chapter 6** from “ Research Methodology” by *C.R.Kothari* |
| 12 | Collecting Data from **Secondary Sources**Government and Semi Government PublicationsEarlier ResearchPersonal RecordsMass media | Chapter 9 from “Research Methodology:” by Ranjit Kumar**Chapter 6** from “ Research Methodology” by *C.R.Kothari* |
| 13 | **Processing Data**Editing, Coding | **Chapter 15** from “Research Methodology:” by Ranjit Kumar |
| 14 | **Introduction to Term Project**. Writing a report on the urban regeneration project given in Arch Design studioDiscussion on the **previous studied content.** **Queries** |  |
| 15 | Progress Marking of Term Project |  |
| 16 | SUBMISSION of Term Project |  |