

Department of City & Regional Planning,
School of Architecture & Planning,
University of Management and Technology

Course Outline – Research Methods

UMT Vision

OUR VISION IS LEARNING!

It defines our existence, inspires all stakeholders associated with us, creates a powerful momentum inside, and responds to the challenges outside. It continues to evolve as present captures new realities and foresight unfolds new possibilities.

All in an incessant attempt to help individuals and organizations discover their God-given potentials to achieve ultimate Success actualizing the highest standards of efficiency, effectiveness, excellence, equity, trusteeship and sustainable development of global human society.

UMT Mission

OUR MISSION IS LEADING!

We aspire to become a learning institution and evolve as the leading community for the purpose of integrated development of the society by actualizing strategic partnership with stakeholders, harnessing leadership, generating useful knowledge, fostering enduring values, and projecting sustainable technologies and practices.

Vision and Mission Statements of the City & Regional Planning Department

The vision statement of the Department of City & Regional Planning is:

- To be a leading City & Regional Planning Department aiming for excellence in learning, research and innovation with integrity and equity.

The mission of the Department of City & Regional Planning is:

- The mission is to establish a very important program concerning the development and management of the built environment. This is entitled as Bachelor of Science in City and Regional Planning. The studies will be focused on needs of the nation in the field of built environment of our regional, urban and rural settlements. The students are required to be equipped with knowledge of advanced skills, latest knowledge and technology used in the planning and management of various settlements. They need to be fully aware of the current world, new trends and direction of developments in future.



University of Management & Technology
School of Architecture & Planning
Department of City & Regional Planning

Research Methods (CRP-436)

Course Schedule		Semester	
Pre-requisite	None	Credit Hours	3 (2+1)
Resource Person (s)		Contact(s)	
Office		Office Hours	
TA		Contact	
Course Description			

Program Educational Objectives (PEOs)

Five years after graduating, the graduates of the program should be characterized by the following three features:

PEO-1:

The graduates will apply learnt knowledge and skills of spatial, temporal, and physical planning.

PEO- 2:

The graduates will propose and execute appropriate solutions to complex planning and urban issues and adapt recent developments in planning focusing on research, creativity, and innovation.

PEO-3:

The graduates will reflect core ethical values in their professional conduct and become responsible members of society.

Program Learning Outcomes (PLOs) / Graduate Attributes

Graduates of the BS CRP program at UMT are expected to have acquired and developed the following set of knowledge, skills, and personality traits (these are also referred to as graduate attributes)

PLO 1: Planning Knowledge

An ability to demonstrate knowledge of contemporary planning theories and conceptual ideologies and models.

PLO 2: Designing Analysis

An ability to identify and investigate problems, construct theoretical framework through literature review and case studies and synthesize information.

PLO 3: Professional Skills

Apply planning knowledge in design/planning process to synthesize and articulate multi-faceted variables to generate an integrated solution based on societal and environmental considerations.

PLO 4: Usage of IT

An ability to select and apply appropriate techniques and resources, including prediction and modelling, to complex planning activities.

PLO 5: Communication

Convey ideas and solutions of planning/urban problems in verbal, written and graphical modes, effectively.

PLO 6: Leadership

Ability to opt a role for affective coordination within the team & collaboration with the community.

PLO 7: Professional Ethics

An ability to apply ethical principles and professional codes following the social norms to the best interest of the society.

PLO 8: Lifelong Learning

Capable of acquiring knowledge, skill, and information self-reliantly from diverse sources and appreciating new ideas and concepts.

Course Learning Outcomes:

After studying this course, the learners will be able to:

- Describe the theoretical aspects of research methods.
- Understand the basic elements, tools, and types of research.
- Design and present a research proposal effectively.
- Develop a write up of research project.

CODE	NAME	CLO	CLO Type
436.1	436.C1	Describe the theoretical aspects of research methods.	C2
436.2	436.C2	Understand the basic elements, tools, and types of research.	C2
436.3	436.C3	Design and present a research proposal effectively.	C6
436.4	436.C4	Develop a write up of research project.	C3

Title	Course Learning Outcomes	PLO 1: Planning Knowledge	PLO 2: Designing Analysis	PLO 3: Professional Skills	PLO 4: Usage of IT	PLO 5: Communication	PLO 6: Leadership	PLO 7: Professional Ethics	PLO 8: Lifelong Learning
Research Methods	Describe the theoretical aspects of research methods.	✓							
	Understand the basic elements, tools, and types of research.	✓							
	Design and present a research proposal effectively.					✓			
	Develop a write up of research project.			✓					

Proposed Teaching Methodology

- Lectures
- Videos
- Assignments
- Case studies
- Guest Lecture

Proposed Assessment (theory, 100%)

Mid Term (40%)

- Written long/short questions, quizzes etc.

Final Term (60%)

- Written long/short questions, quizzes etc.

Proposed Assessment (practical, 100%)

- Presentations, assignments, report writing, viva voce, field visits etc.

Recommended Text Book

1. M. Iqbal Chaudary, "Social Theory, Research Problems," Lahore, Aziz Book Depot, (Latest Edition).
2. Oppentein, A. N., Questionnaire Design and Attitude Measurement, London, Heimann, (Latest Edition).
3. Karl. E. Weber, Indra. P. Tiwari, "An Introduction: Research and Survey Format Design", Division of Human Settlements Development, Bangkok, Asian Institute of Technology, (Latest Edition).
4. Chava Nachmias, David Nachmias, "Research Methods in the Social Sciences", St. Martin's Press Inc., (Latest Edition).
5. Colin Clifford, (1983), Urban Projects Manual, Gerald, Liverpool.
6. Wang, X., Hofe, R. (2007), Research Methods in Urban and Regional Planning, Springer.
7. Patten, M. L. (2005), Understanding Research Methods: An Overview of the Essentials, Pyrczak Pub.
8. Bouma, G. D. (2004), The Research Process, Oxford University Press.
9. Berg, B. L. (2003), Qualitative Research Methods for the Social Sciences, Allyn & Bacon.
10. Creswell, J.W. (2003), Research Design: Qualitative, Quantitative, and Mixed Methods Approaches, Sage Publication.
11. Nardi, P. M. (2002), Doing Survey Research: A Guide to Quantitative Research Methods, Allyn & Bacon.
12. Neuman, W. C. (2002), Social Research Methods: Qualitative and Quantitative Approaches, Allyn and Bacon.
13. C.R. Kothari, (2004), Research Methodology Methods and Techniques, New Age International Publishers, ISBN (13): 978-81-224-2488-1, New Dehli India, Latest Edition).
14. Louis Cohen, Lawrence Manion and Keith Morrison (2007), Research Methods in Education ISBN 10: 0-415-37410-3, Routledge.

- Introduction to research and its significance in planning
- Ethical considerations in research
- Types of research
- The Research Process: Abstract, problem formulation, research objectives, literature review, research design, data collection and analysis, Report writing.
- Theory and research, theoretical framework and testing of hypothesis.
- Research design and its components: measurements: definition, nature and levels of measurements, research methodology: collection and analysis/interpretation of data, generalization, types of observation, laboratory and field experimentation, personal interviews: questionnaire construction: content of questions, types of questions, question format, sequence of questions, index construction and scaling methods.
- Sampling techniques and sample design, evaluation;
- Organization and format of planning report: reference, quotations, bibliography, paging, etc.
- Writing up of the thesis and dissemination of research work.
- Compilation of research proposals and presentation.

LECTURE WEEKS	CLO	TOPICS TO BE COVERED
WEEK 1	1	What is Research? How is it done? Research Questions
WEEK 2	1	Types of Research
WEEK 3	1	Literature Review
WEEK 4	1, 2	Research Problem Practical: Write down Problem Statement
WEEK 5	2	Guest Lecture by Dr. Irfan/Dr. Waheed
WEEK 6	2	Literature Review Writing Practical: Summarize the Articles
WEEK 7	1	Conceptual Framework
WEEK 8		MID TERM EXAMINATION

WEEK 9	1, 2	Literature Map, Literature Table
WEEK 10	1	Research Methodology
WEEK 11	1, 2	Questionnaire Design Data Analysis Techniques Practical: Behavior Mapping
WEEK 12	3	Survey Techniques Practical: Looking and Listening Survey
WEEK 13	3	Guest Lecture by Dr. Hamid Arshad
WEEK 14	3	Sampling Techniques
WEEK 15		ASSESSMENT + Report Submission
WEEK 16		FINAL EXAMS