

**Department of City & Regional Planning,**  
**School of Architecture & Planning,**  
**University of Management and Technology**  
**Course Outline – PLANNING SURVEYS & DATA ANALYSIS(CRP-241)**

**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 the developments in future.

- **PROGRAM EDUCATIONAL OBJECTIVES (PEOS)**

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Four 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 (CLOs)**

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

1. Define and describe the terms related to planning surveys
2. Understand the purposes of conducting various types of planning surveys
3. Discuss sampling methods
4. Conduct various types of planning surveys by applying tools for data collection
5. Perform data analysis
6. Make analytical reports

### **Course learning outcomes (CLO's)**

<b>CODE</b>	<b>NAME</b>	<b>CLO</b>	<b>CLO Type</b>
241.1	241.C1	Define and describe the terms related to planning surveys	C3
241.2	241. C2	Understand the purposes of conducting various types of planning surveys	C3
241.3	241. C3	Discuss sampling methods	A4
241.4	241. C4	Conduct various types of planning surveys by applying tools for data collection	A5
241.5	241. C5	Perform data analysis	P6
241.6	241.C6	Make analytical reports	P6

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
Planning Surveys & Data Analysis	Define and describe the terms related to planning surveys	✓							
	Understand the purposes of conducting various types of planning surveys	✓							
	Discuss sampling methods	✓							
	Conduct various types of planning surveys by applying tools for data collection		✓						
	Perform data analysis			✓					
	Make analytical reports				✓				✓

### Proposed Teaching Methodology

- Lecturing
- Assignments
- Field Visits
- Report Writing

### Proposed Assessment (theory, 100%)

#### Mid Term (40%)

- Written long/short questions, quizzes etc.

#### Final Term (60%)

- Written long/short questions, quizzes etc.

### Assessment (practical, 100%)

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

### Recommended Text Book

1. Survey Methods (UHasselt) &  
Sampling Techniques (G0B72a, KU Leuven) Geert Molenberghs,  
Interuniversity Institute for Biostatistics and statistical Bioinformatics (I-BioStat),

Universiteit Hasselt & KU Leuven, Belgium, geert.molenberghs@uhasselt.be & geert.molenberghs@med.kuleuven.be

[www.ibiostat.be](http://www.ibiostat.be), Master in Statistics & QASS, Katholieke Universiteit Leuven

2. Fowler, F. J. (2014), Survey Research Methods, Sage Publications.

Zmud, J., Gosselin, M. L., Munizga, M., and Carrasco, J. A. (eds.)(2013), Transport Survey Methods: Best Practice for Decision Making, Emerald.


3. Valliant, R., Dever, J. A. and Kreuter, F. (2013), Practical Tools for Designing and Weighting survey samples, Springer.

4. Mutz, D. C. (2011). Population-Based Survey Experiments, Princeton University Press.

5. Bethlehem, J., Cobben, F., and Schouten, B. (2011), Handbook of Nonresponse in Household Surveys, John Willey and Sons.

6. Bulmer, M. (ed.) (2010), Social Measurement through Social Surveys, Ashgate.

7. Pauline, V. Y. (2009), Scientific Social Surveys and Research, PhiLearning.

 <p style="text-align: center;"><b>University of Management &amp; Technology</b> School of Architecture &amp; Planning Department of City &amp; Regional Planning</p>			
<b>PLANNING SURVEYS &amp; DATA ANALYSIS(CRP-241)</b>			
<b>Course Schedule</b>		<b>Semester</b>	Spring 2023
<b>Pre-requisite</b>	None	<b>Credit Hours</b>	3 (1+2)
<b>Resource Person (s)</b>		<b>Contact(s)</b>	
<b>Office</b>		<b>Office Hours</b>	
<b>TA</b>	-	<b>Contact</b>	

## COURSE CALENDAR

Week	Course Contents	CLO	Reference Chapter(s)
1	Introduction to Planning Survey, Practical application of Planning Survey (nature and purpose) <b>Assignment:</b> Area selection (Johar Town)	1,2	Class Notes
2	What is data, Types of Data and Methods to collect Data <b>Assignment:</b> Finalization of Survey and Marking its boundaries on Google Earth	1,2	Class Notes
3	<b>Field Survey:</b> Reconnaissance Survey of the selected area and marking of the coordinates by GPS of marked points on the Boundary. <b>Assignment:</b> Digitalization of the area.	1,2,3	Class Notes
4	Introduction to Land Use Survey and How to conduct Land Use Survey	4	Class Notes
5	Codes of Land Use Survey Land Use Survey <b>Assignment:</b> What is Land Use Survey and codes for Land Use Survey?	2,4	Class Notes
6	Type of Surveys	4	Class Notes

7	Finalization of maps and Report contents <b>Field Survey:</b> Land Use Survey (18 <sup>th</sup> – 04 – 2024)	5,6	Class Notes
8	<b>MID TERM EXAM</b>		
9	Map features and outlay of plans	5	-
10	Identification of Goals and Objectives and Questionnaire Formulation <b>Class Assignment:</b> Formulation of Socio-Economic Questionnaire	1,2	Class Notes
11	Sampling: Purpose, types and methods, Sampling Errors and measure to control errors. <b>Class Assignment:</b> Apply sampling to your case study.	3	Class Notes
12	How to conduct Socio- Economic Survey. <b>Field Survey:</b> Socio- Economic Survey on Fire Hazard (25 <sup>th</sup> – 04 – 2024)	3,4	Class Notes
13	<b>Field Survey: Formal and Informal Settlements Survey (2<sup>nd</sup> – 05 – 2024)</b>	4	-

14	Data Analysis Techniques	5	Class Notes
15	<b>Submission of Report and Relative Problem Solving</b>	6	-
16	<b>FINAL TERM EXAM</b>		