



Department of Planning,
Lecture Plan, Odd Semester, AY 2026-27

Name of Course: Master of Transport Planning (MTP)

Subject Name:	Research Methods (MPIS212)
Year & Sem:	II Year & III Semester
Course Duration:	20 July – 11 November, 2026
Course Coordinator:	Dr. Naina Gupta & Dr. Arpan Paul
Number of Credits:	3
Subject Category:	Theory
Total Periods/Week:	3 (Minimum Attendance Requirement: 75%)
Internal Assessment	50 (Minimum Pass Marks: 50%)
End Evaluation	50 (Minimum Pass Marks: 50%)
Total Marks	100
Total No. of Internal Assessment & Mode	Five Assessments (including Mid Semester Assessment) Mode of Assessment: Oral Presentations + Synopsis Submission

Subject Objective: To familiarise students with the philosophies, designs and techniques of academic research, and to develop their competence in formulating, conducting, analysing and communicating research relevant to planning practice.

Week	Lecture / Session Topic (Teaching-Learning Objective aimed)	Session Mode	Reference/ Suggested Readings
20 th July	Commencement of Classes		
20 th - 24 th Jul	Unit I: Foundations of Research		
27 th Jul – 31 st Aug	What is Research? Types of Research, Academic vs Applied Research, Role of Research in Planning	Lecture	Crotty (2012), Punch (2013)
03 rd – 07 th Aug	Research Philosophies, Paradigms, Epistemology, Theoretical Perspective, Methodology vs Methods	Lecture + Discussion	
10 th – 14 th Aug	Internal Assessment – I (Research Idea Submission) + Unit II: Research Design and Literature Review Research Design: Quantitative, Qualitative and Mixed Methods; Case Studies in Planning Research	Lecture + Presentation	Setiawan, J. (2026); Creswell and Creswell (2022); Punch (2013), Crotty (2012); Neville (2007)
17 th – 21 st Aug	Literature Review, Citation Practices, Reference Management	Lecture + Demonstration	
22 nd Aug- 5 th Sep, 2025	Field Work		
07 th – 11 th Sept	Formulation of Hypothesis, Variables, Sampling Techniques and Survey Design	Lecture	Crotty (2012)



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Week	Lecture / Session Topic (Teaching-Learning Objective aimed)	Session Mode	Reference/ Suggested Readings
14 th - 18 th Sept	Internal Assessment – II (Research Idea & Literature Review Submission) + Research Proposal Development	Workshop	-
21 st -25 th Sept	Internal Assessment – III: Mid- Semester Assessment (15M)		
28 th Sept – 02 nd Oct	Data Collection Methods: Questionnaires, Interviews, Observation and Field Documentation	Lecture	Teodorović and Nikolić (2020); Corbin and Strauss (2014) Frankfort-Nachmias & Nachmias (2008); Neville (2007)
05 th -09 th Oct	Unit IV: Data Analysis Qualitative; Introduction to Coding and Data Synthesis	Lecture	
12 th - 16 th Oct	Quantitative Data Analysis; Introduction to Coding and Data Synthesis	Guest Lecture	
19 th – 23 rd Oct	Unit V: Research Communication and Dissemination Research Communication: Technical Writing, Proposal Structure, Academic Style and Referencing	Lecture + Hands On	
26 th – 30 th Oct	Internal Assessment – IV: Research Proposal	Research Seminar	
02 nd - 06 th Nov (11 th Nov end of class work)	Internal Assessment – V	Final Synopsis Submission	

Details of Internal Assessments

Tentative Date/Week of the Assessment	Mode of Assessment	Marks of the Assessment
10 th – 14 th August	Written Submission	<u>05 M</u>
14 th - 18 th Sept	Written Submission	<u>10 M</u>
21 st -25 th Sept	Oral Presentation	<u>15 M</u>
26 th – 30 th Oct	Oral Presentation	<u>15 M</u>
02 nd - 06 th Nov	Written Submission	<u>05 M</u>

Reference books:

1. Crotty, M. (2012), The Foundations of Social Research: Meaning and Perspective in the Research Process, SAGE Publications, New Delhi.



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2. Frankfort-Nachmias, C. & Nachmias, D. (2008), Research Methods in the Social Sciences, 7th Ed., Worth Publishers, New York.
3. Neville, C. (2007), The Complete Guide to Referencing and Avoiding Plagiarism, Open University Press, Maidenhead.
4. Punch, K.F. (2013), Introduction to Social Research: Quantitative and Qualitative Approaches, 3rd Ed., SAGE Publications, London.
5. Corbin, J., & Strauss, A. (2014). Basics of qualitative research: Techniques and Procedures for Developing Grounded Theory. SAGE Publications.
6. Setiawan, J. (2026). A Practical Academic Guide Introduction to Systematic Literature Review Kitchenham and Prisma 2020 Framework
7. Teodorović, D., & Nikolić, M. (2020). Quantitative methods in transportation. CRC Press.
8. Creswell, J. W. (2022). Research design: Qualitative, Quantitative, and Mixed Methods Approaches. Sage Publications

Note:

1. Any other closed holidays as declared by SPAV shall supersede the above lecture plan. Holidays shown above may alter as per Notice from time to time.
2. Assessment Sessions may be re-scheduled, with prior intimation.
3. Reading lists provided is not exhaustive and is subject to addition – students are advised to follow progression of class to keep abreast of the new reading lists, if any.

Signature of the Faculty Members