



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

Name of Course: B.Planning

Subject Name:	Traffic and Transportation Planning (PLN215)
Year & Sem:	II Year & III Semester
Course Duration:	20 July – 11 November, 2026
Course Coordinator:	Dr. Naina Gupta
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	Three Assessments (including Mid Semester Assessment) Mode of Assessment: IA-I : Poster Presentation, Mid Semester Assessment: Closed Book Test; IA-III: MCQ based test

Subject Objective: To understand the basic knowledge of traffic surveys, infrastructure design and concepts of planning.

Week	Lecture / Session Topic (Teaching-Learning Objective aimed)	Session Mode	Reference/ Suggested Readings
20 th July	Commencement of Classes		
20 th - 24 th Jul	Introductory Awareness Building Session and Lecture: Concept, Role and Significance of Transport Planning: Various transport systems; Traffic and transport problems and issues.	Lecture & Interactive Session	
27 th Jul – 31 st Aug	Road Cross-sectional Elements; Road hierarchies, classification, capacity and level of service.	Lecture	IRC Codes: SP-41; 69; 11; 106; 67
03 rd – 07 th Aug	Intersection types; Uncontrolled, controlled; Space sharing and time-sharing junctions.	Lecture	
10 th – 14 th Aug	Internal Assessment – I		Presentation
17 th – 21 st Aug	Transport Surveys, Classified traffic volume count, Origin & Destination, spot speed studies, parking, pedestrian volume studies, household surveys.	Lecture	P.K.Sarkar, V.Maitri & G.J.Joshi, 'Transportation Planning – Principles, Practices and Policies'. PHI Learning Pvt. Ltd., 2017.
22 nd Aug- 5 th Sep, 2025	Field Work		



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Week	Lecture / Session Topic (Teaching-Learning Objective aimed)	Session Mode	Reference/ Suggested Readings
07 th – 11 th Sept	Traffic, travel and network characteristics and their significance in planning and design of transport infrastructure.	Lecture	P.K.Sarkar, V.Maitri & G.J.Joshi, 'Transportation Planning – Principles, Practices and Policies'. PHI Learning Pvt. Ltd., 2017.
14 th - 18 th Sept	Mid- Semester Assessment Week		
21 st -25 th Sept	Traffic Flow Models - traffic density, traffic flow and speed	Lecture	1. Papacostas, C. S., & Prevedouros, P. D. (2001). Transportation Engineering and Planning. Pearson. 2. Dr. L.R. Kadiyali, 'Traffic Engineering and Transport Planning'. Khanna Publishers. Eight Edition.
28 th Sept – 02 nd Oct	Principles and Approaches for Traffic Management & Travel Demand Management	Lecture	
05 th -09 th Oct	Geometric Design of Road and Intersections: Vehicle and road characteristics; Components of geometric design-design speed; Horizontal and vertical alignment	Lecture	
12 th - 16 th Oct	Planning and Design for Active Mobility	Guest Lecture	1. Street Design Guidelines by UTTIPEC 2. Speck, J. (2012). Walkable City. Farrar, Straus and Giroux.
19 th – 23 rd Oct	Internal Assessment – III	MCQ based test / Classroom Discussion	
26 th – 30 th Oct	Network alignment planning, sight distance, cross-section elements, Lateral and vertical clearance, control of axis.	Lecture	Dr. L.R. Kadiyali, 'Traffic Engineering and Transport Planning'. Khanna Publishers. Eight Edition.
02 nd - 06 th Nov (11 th Nov end of class work)	Emerging concepts - TOD, NMT, MRTS, RRTS etc.; Syllabus Revisions	Lecture & Interactive Session	National Transit Oriented Development (TOD) Policy; National Urban Transport Policy



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Details of Internal Assessments

Tentative Date/Week of the Assessment	Mode of Assessment	Marks of the Assessment
10 th – 14 th August	Poster Presentation / Classroom Discussion	<u>10 M</u>
14 th - 18 th Sept	Closed book test	<u>20 M</u>
19 th – 23 rd October	MCQ based test / Classroom Discussion	<u>20 M</u>

Reference books:

1. Rodrigue, J. P., Comtois, C. & Slack, B, 'The Geography of Transport Systems'. Routledge Publishing. 2006.
2. P.K.Sarkar, V.Maitri & G.J.Joshi, 'Transportation Planning – Principles, Practices and Policies'. PHI Learning Pvt. Ltd., 2017.
3. Dr. L.R. Kadiyali, 'Traffic Engineering and Transport Planning'. Khanna Publishers. Eight Edition.
4. Speck, J. (2012). Walkable City. Farrar, Straus and Giroux.
5. Ministry of Urban Development: 'Code of Practice (Part -1&2): Cross Section'. Institute of Urban Transport. 2012; Service Level Benchmarking for Urban Transport.
6. IRC Codes: SP-41; 69; 11; 106; 67
7. Papacostas, C. S., & Prevedouros, P. D. (2001). Transportation Engineering and Planning. Pearson.
8. Street Design Guidelines by UTTIPEC;
9. Electric Mobility Policy Framework, MoHUA
10. National Transit Oriented Development (TOD) Policy; National Urban Transport Policy

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