



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

Name of Course: Bachelor of Planning (B. Plan)

Subject Name:	Planning Techniques (PLN212)
Year & Sem:	B. Plan – 2nd Year – III Sem (Odd Semester)
Course Duration:	20 July to 11 November 2026
Course Coordinator:	Dr. Arpan Paul Singh
Number of Credits:	03
Subject Category:	TC
Total Periods/Week:	2 / 1 / 0
Internal Assessment	03
End Evaluation	50
Total Marks	50
Total No. of Internal Assessment & Mode	100
	3

Subject Objective: To develop proficiency in applying suitable techniques of analysis in planning exercises.

Week	Lecture / Session Topic (Teaching-Learning Objective aimed)	Session Mode	Reference/ Suggested Readings
20 Jul 2026	Unit I: Population Models Parameters for study of population characteristics	Lecture	1. Sharma, Rajendra K (2004), Demography and Population Problems, Atlantic Publishing House, New Delhi.
27 Jul 2026	Techniques of population projections	Lecture	1. Sharma, Rajendra K (2004), Demography and Population Problems, Atlantic Publishing House, New Delhi.
03 Aug 2026	Cohort survival method; Population accounting	Lecture+ Classroom Exercise	1. Sharma, Rajendra K (2004), Demography and Population Problems, Atlantic Publishing House, New Delhi.
10 Aug 2026	Unit II: Employment Analysis Employment mobility and analysis of distribution vis-à-vis place of residence	Lecture	1. Urban and Regional Development Plans Formulation and Implementation (URDPFI) Guidelines. Vol. 1, Ministry of Urban Development, New Delhi.
17 Aug 2026	Basic and secondary employment Multiplier analysis	Lecture	1. Urban and Regional Development Plans Formulation and Implementation (URDPFI) Guidelines. Vol. 1, Ministry of Urban Development, New Delhi.
22 Aug – 05 Sep, 2026	Field Visit		



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07 Sep 2026	Unit III: Input-Output Analysis Multi-sector input-output modelling	Lecture	1. Wang, Xinhao & Hofe, Rainer vom (2007), Research Methods in Urban and Regional Planning, Springer Berlin Heidelberg, New York.
14 Sep 2026	Formulation of contingency tables Input and output factors analysis	Lecture+ Classroom Exercise	1. Wang, Xinhao & Hofe, Rainer vom (2007), Research Methods in Urban and Regional Planning, Springer Berlin Heidelberg, New York.
21 Sep 2026	Mid-Semester Assessment week		
28 Sep 2026	Unit IV: Cost-Benefit Analysis Identification of direct and indirect costs and benefits; Social costs and benefits	Lecture	1. Chandra, P. (2009) Projects: Planning, Analysis, Selection, Financing, Implementation, And Review, 8th Ed. Noida: Mc Graw Hill India.
05 Oct 2026	Present value, future worth; Discount and compound factors using formulas and standard tables	Lecture+ Classroom Exercise	1. Chandra, P. (2009) Projects: Planning, Analysis, Selection, Financing, Implementation, And Review, 8th Ed. Noida: Mc Graw Hill India.
12 Oct 2026	Introduction to SWOT, IRR, NPV	Lecture+ Classroom Exercise	1. Chandra, P. (2009) Projects: Planning, Analysis, Selection, Financing, Implementation, And Review, 8th Ed. Noida: Mc Graw Hill India.
19 Oct 2026	Unit V: Delineation Techniques Gravity Model	Lecture+ Classroom Exercise	1. Sachithanandan (2004), Reading material on Planning Techniques, Institute of Town Planners India, New Delhi.
26 Oct 2026	Centrographic Technique	Lecture+ Classroom Exercise	1. Sachithanandan (2004), Reading material on Planning Techniques, Institute of Town Planners India, New Delhi.
02 Nov 2026	Distance functions; Course revision	Lecture+ Classroom Exercise	

Details of Internal Assessments



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Tentative Date/Week of the Assessment	Mode of Assessment	Marks of the Assessment
21 st August 2026	Multiple Choice Question Test	15
25 th September 2026	Hand Written Exam	20
23 rd October 2026	Hands on Exercise Submission	15

Reference books:

1. Chandra, P. (2009) Projects: Planning, Analysis, Selection, Financing, Implementation, And Review, 8th Ed. Noida: Mc Graw Hill India.
2. Government of India (Ministry of Urban Development and Town and Country Planning Organisation) (2015), Urban and Regional Development Plans Formulation and Implementation (URDPFI) Guidelines. Vol. 1, Ministry of Urban Development, New Delhi.
3. Sachithanandan (2004), Reading material on Planning Techniques, Institute of Town Planners India, New Delhi.
4. Sharma, Rajendra K (2004), Demography and Population Problems, Atlantic Publishing House, New Delhi.
5. Wang, Xinhao & Hofe, Rainer vom (2007), Research Methods in Urban and Regional Planning, Springer Berlin Heidelberg, New York.

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