

**Lecture Plan**  
**Department of Planning, School of Planning and Architecture, Vijayawada**

**Name of Course:**       **Infrastructure Planning (MPIS106)**

**Programme & Sem:**       **Masters of Planning (PG), Semester One**

**Course Duration:**       August 01 to Nov 14, 2018

**Course Coordinator:**   Amuktha Meher , Assistant Prof., Dept. of Planning  
(amukthameher@spav.ac.in)

**Number of Credits:**     03

**Total Periods/Week:**  03 (See Time Table for details)

**Internal Assessment:**  50 (minimum pass marks 50%)

**End Evaluation:**       50 (minimum pass marks 50%) – Written Exam.

**Total Marks:**         100 (to be converted to CGPA credit pattern as per regulations)

**Subject Objective:**    *To provide exposure to infrastructure and its sub-sectors relevant to physical planner in planning and design of urban and regional Infrastructure*

<b>Week</b>	<b>Lecture / Session Topic (Teaching-Learning Objective aimed)</b>	<b>Session Mode</b>	<b>References / Suggested Readings</b>
Week 1 (Aug 01-03)	Introduction to Infrastructure Planning – Importance of Infrastructure, objectives of the utilities, services planning	Lecture	<ul style="list-style-type: none"> <li>• Ministry of Urban Development. 'Service Level Benchmarks Data Book – Improving Service Outcomes 2008-09'. Gol. 2010. (GUIDELINES)</li> <li>• 'Handbook of Service Level Benchmarks', National Capital Region Planning Board(NCPRB)</li> <li>• 'Manual: Infrastructure Statistics', Central Statistics Office, Ministry Of Statistics And Programme Implementation, Gol, New Delhi</li> <li>• CPHEEO, 'Manual on Sewerage and Sewerage Treatment'. MOUD, Gol. 2013. (GUIDELINES)</li> </ul>
Week 2 (Aug 6 -10)	Implications on public health and environment; Economic – introduction to policies and programmes in infrastructure planning.	Lecture	
Week 3 (Aug 13- 15)	Issues and concerns of maintaining the utilities and services, need and importance of service level benchmarks of water supply, sanitation, sewerage, solid waste and transportation	Lecture	
(Aug 16 - 21)	<b>Internal Assessment -1</b>		
Week 4 (Aug 22-24)	Physical Infrastructure – Role of physical planner in planning of utilities and services; water supply distribution system, storm water drainage system.	Lecture	<ul style="list-style-type: none"> <li>• B.C. Punmia, Ashok K. Jain &amp; Arun K. Jain (2006) ' Water Supply Engineering', Laxmi Publications, New Delhi. (BOOK)</li> <li>• James C. Y. Guo (2003) 'Urban Storm Water Design', Water Resource Publication. (BOOK)</li> </ul>

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Week 5 (Aug 27-31)	Sewerage system, solid waste management, electricity distribution system.	Lecture	<ul style="list-style-type: none"> <li>• B.C. Punmia &amp; Ashok Kumar Jain (2005) 'Waste water engineering', Lakshmi Publications, New Delhi. (BOOK)</li> <li>• Ramesh Chandrappa &amp; Diganta Bhusan Das (2012) 'Solid Waste Management – Principles and Practices', Springer. (BOOK)</li> <li>•</li> </ul>
Week 6 (Sept 01-09)	<b>Field Work</b>		
Week 7 (Sept 10-14)	Social Infrastructure – Types of social infrastructure, Health care – essential service, availability, access and utilisation, standards, public and private institutions, policies, National Rural Healthcare Mission, hierarchy of health care establishments.	Lecture	<ul style="list-style-type: none"> <li>• GoI (Government of India, Ministry of Urban Development &amp; Town and Country Planning Organisation). 'Urban and Regional Development Plans Formulation and Implementation (URDPFI) Guidelines'. Volume-1. 2015. (GUIDELINES)</li> </ul>
Week 8 (Sept 17 - 21)	Education – primary and secondary educational institutions, standards, policies, right to education (RTE); Public and community spaces – recreational, safety and security.	Lecture	<ul style="list-style-type: none"> <li>• GoI (Government of India, Ministry of Urban Development &amp; Town and Country Planning Organisation). 'Urban and Regional Development Plans Formulation and Implementation (URDPFI) Guidelines'. Volume-1. 2015. (GUIDELINES)</li> </ul>
Week 9 (Sept 24-28)	<b>Internal Assessment - II</b>		
Week 10 (Oct 01-05)	Transportation – Introduction to transport and travel; Understanding travel from the mobility, economic, social-psychologist, time/space perspective; Transportation planning process.	Lecture	<ul style="list-style-type: none"> <li>• Ortuzar, J.D., Willumsen, J.G., Wiley, 'Modelling Transport' Routledge. 2011. (BOOK)</li> <li>• Rorigue, J.P, Comtois, Slack, J., 'The geography of transport systems'. Routledge. 2006 (BOOK)</li> </ul>
Week 11 (Oct 08 - 12)	Introduction to four stage modelling; Landuse and transportation integration; Demand and supply for transport;	Lecture	

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Week 12 (Oct 15 - 19)	Dussehra Holidays		
Week 13 (Oct 22 - 26)	Congestion pricing, transit oriented development; Transport pricing, Basic transport economic model.	Lecture	<ul style="list-style-type: none"> <li>• Rorigue, J.P, Comtois, Slack, J., 'The geography of transport systems'. Routledge. 2006 (BOOK)</li> <li>•</li> </ul>
Week 14 (Oct 29 - Nov 02)	Internal Assessment III – Assignment		
Week 15 (Nov 05 – 09)	Emerging and Future Infrastructure – Spatial data as infrastructure; Impact of technology on infrastructure; Other concepts, components and frameworks.	Lecture	<ul style="list-style-type: none"> <li>• National Infrastructure Commission, 'The impact of technological change on future infrastructure supply and demand'.2016 (REPORT)</li> </ul>
Week 16 (Nov12 - 14)	Finish the pending topics ,if any .	Lecture	

**Note:**

1. Any other closed holidays as declared by SPAV shall supercede 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.