<u>Lecture Plan</u> Department of Planning, School of Planning and Architecture, Vijayawada

Name of Course: Planning for Physical Infrastructure (BPLN304)

Programme & Sem: Bachelor of Planning (UG), Semester Third

Course Duration: July 16 to Nov 14, 2018

Course Coordinator: Prasanth Vardhan P, Mr., Assistant Prof., Dept. of Planning (prasanth@spav.ac.in)

Number of Credits: 03 Subject Category: Theory

Total Periods/Week: 03 (minimum Attendance Requirement 75%)

Internal Assessment(IA): 50 (minimum pass marks 40%)

End Evaluation(EE): 50 (minimum pass marks 40%) – Written Exam and Aggregrate marks 50% [IA+EE].

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

Subject Objective: To impart basic knowledge on Infrastructure, its relation to planners in settlement

planning and design considerations of Infrastructure development.

Week	Lecture / Session Topic (Teaching-Learning Objective aimed)	Session Mode	References	/ Suggested Readings	
Week 1 (starting July 16)	Definition of Infrastructure and its components, Role of physical planner in planning of utilities and services;	Lecture	Infrastruc Infrastruc New Delh	Commission, 'Definition of ure', Secretariat for ure, Government of India. (2011. (REPORT) ublic Health and ental Engineering ion. 'Manual on Water d Treatment', Gol.2015.) Wara Rao. P, Srinivasa land Book on Water	
Week 2 (starting July 23)	Objectives of utilities and services planning, its relation to economic growth, public health and environmental protection;	Lecture	Organisat Supply ar (MANUAL 3. Venkates		
Week 3 (starting July 30)	Hydrological Cycl; Introduction to the institutions related to Infrastructure services Water Supply System, Water supply sources, treatment system and types	Lecture	Supply Er of Vocation Government Hyderaba	ngineering', State Institute onal Education, ent of Andhra Pradesh, d.2005.(TEXT BOOK) la, 'Water Supply and	
Week 4 (starting Aug 06)	Water distribution system, pressure requirement; requirement for domestic and non-domestic purposes, fire fighting, seasonal variations in demand and comsumption.	Lecture	Sanitary E 25th Editi	gineering(Env. Eng.)', . Charotar Publishing .LTD,Ahmedabad.	
Week 5 & 6 (Aug 13 - 21)	Internal Assessment 1 (Written Test) – 30% of Internal Assessment				
Week 7 (starting Aug 27)	Pipe network analysis; requirements of distribution and storage, Strom Water run-off estimation, DWF and SWF, rainfall intesity, time od concentration	Lecture	'Urban Dr Press, Ta	Davies, David. B and John .W 'Urban Drainage', 3rd Edition.Spon Press, Taylor & Francis. London. 2011. (TEXT BOOK)	
Week 8 (Sep 01-09)	Field Work for all semesters of UG and PG				
Week 9 (starting Sep10)	Gravity flow, Hydraulic gradient line, Manni and nomographs, layout and design of stro systmes, non-sourcing velocity, data requir rain water harvesting	m water	Lecture	Reference 4 & 5	
Week 10 (Sep 24-28)	Internal Assessment – II (Mid Semester Examination) – 40% of Internal Assessment				

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Week	Lecture / Session Topic (Teaching-Learning Objective aimed)	Session Mode	References / Suggested Readings		
Week 11 (starting Oct 01)	Sanitation, on-site detention, design procedure for on-site detention; Low cost appropriate technologies for saniation, Sanitary sewer system, Sewer system location and layout	Lecture	Central Public Health and Environmental Engineering Organisation, 'Manual on Sewerage and Sewage Treatment', Ministry of Urban Development, New Delhi.2013 (MANUAL) Ministry of Urban Development, 'URDPFI Guidelines', Volume 1. Government of India, New		
Week 12 (starting Oct 08)	Ouantity of seweage, standards for indian cities, sewer appurtenancesl sewer pumping and foreced main manholes	Lecture			
(Oct 15-19)	Dussehra Break		Delhi.2014 (GUIDELINES)		
Week 14 (Oct 22 - 26)	Internal Assessment – III (Presentation/Submission) – 30% of Internal Assessment				
Week 15 (starting Nov 05)	Solid Waste and types, MSWM rules 2000 and 2013Stages of SWM and current practices; Composting porcess – Indore and Bangalore methods	Lecture	8. Ministry of Urban Development, 'Toolkit for Solid Waste Management', Government of India, New Delhi.2011.		
Week 16 (starting Nov 12)	Concepts of re-use and recycle, e-waste and bio-medical waste generation and treatment methods	Lecture	9. Ministry of Environment and Forest, 'Municipal Solid Waste Management Rules', Government of Indi, New Delhi.2000		

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.