

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

Name of Course: Transport Planning Studio (BPLN 401),

Programme & Sem: **Bachelor of Planning (UG), Semester Four**
 Course Duration: Dec 28, 2016 to April 28, 2017
 Course Coordinator: Prasanth Vardhan, Mr., Assistant Prof., Dept. of Planning
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 Number of Credits: 15
 Total Periods/Week: 15
 Internal Assessment: 250 (minimum pass marks 50%)
 End Evaluation: 250 (minimum pass marks 50%) External Jury
 Total Marks: 500 (to be converted to CGPA credit pattern as per regulations)

Subject Objective: To impart skillset on traffic and transportation surveys, comprehend the issues at local, sub-city/city level, and develop strategies/plans for the issues identified

This academic exercise on transport planning has two field-based exercises and one city level desktop exercise spread over the semester, which covers the basic surveys of traffic and transportation, local/sub-city level assessments and a rapid appraisal of traffic and transportation characteristics at city level. For the city level exercise, study area may defer to the 1st & 2nd field areas. The details of field-based exercises are given below.

Academic Exercise 1: Basic Surveys

A tutorial based learning on the traffic and transportation surveys covering the purpose/objective, methods and procedure of conducting surveys and reference to the guidelines/standards applicable is undertaken during the first two weeks. This classroom-based study is followed by two weeks of field-based surveys, analysis and report preparation and submission as given below and the survey locations are in Vijayawada City.

Group & Enumerators	Survey Type	Time for Surveys	Mode of Submissions
Group 1 (4 Enumerators)	Road Inventory Surveys Parking Surveys	2 to 3 Days	Sheets & Report
Group 2 (8 Enumerators)	CVC Surveys Junction Surveys	3 Days	
Group 3 (6 Enumerators)	Speed and Delay Surveys Household Surveys	2 to 3 Days	
Group 4 (5 Enumerators)	NMT & Public Transport Survey	2 Days	
Batch Exercise	Road Side Interview Survey & Land Use Surveys	2 Days	

Academic Exercise 2: Local/ Sub city Level exercise

To identify and understand the traffic and transportation related concerns/issues at the local/sub city level and develop proposals, this stage focuses on four major themes as given below for detailed analysis and proposals.

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Theme 1: Land Use and Transport Integration Study – BRTS corridor in Vijayawada

Theme 2: Non Motorized Transport Planning, focusing on pedestrian, cycling and street infrastructure integration

Theme 3: Junction Improvement Plans, covering the geometric and management aspects

Theme 4: Parking, focusing on the assessment of demand and appropriation of parking plans and management

Students will be introduced to the study areas for assessment of existing situation with reference to the standard procedures before the case study visits.

Case Study – 2 weeks, a field based visits to develop an understanding on real life traffic and transportation plans, land use and transport integration strategies, etc. and document the best practices. Based on the desktop studies, case study visits, respective theme develops the strategies/plans for the issues/concerns identified. This second exercise is spread over 7 weeks and the mode of submission is sheet and report theme wise.

Academic Exercise 3: Rapid appraisal at city level (traffic and travel characteristics)

To comprehend the traffic and transportation scenario at the larger scale, city level. This exercise is undertaken in 2 weeks duration, which focuses on the rapid appraisal of the trip and travel behavior from the secondary data, assessment of land use and transportation integration, and road hierarchy and accessibility aspects. Based on the rapid assessment of the scenarios, for the identified issues/concerns, policy level proposals and strategies are suggested in reference to desktop case studies. The final submission of this stage is sheets.

Week	Lecture / Session Topic (Teaching-Learning Objective aimed)	Session Mode
Week 1 (starting Dec 28) to Week 4 (starting Jan 16)	Academic Exercise 1: Basic Surveys <ul style="list-style-type: none"> • <i>Class Room Learning</i> • <i>Survey Fomats preparation</i> • <i>Conduct Sruveys and Analysis</i> • <i>Sheet and Report Submission</i> 	Lecture, Field Based Surveys, Class room work
Week 5	Internal Assessment-I (Feb 01-03)	
Week 6 (starting Jan 30) to Week 7 (starting Feb 06)	Academic Exercise 2: Local/ Sub city Level exercise <ul style="list-style-type: none"> • <i>Assessment of Existing situtation of all the themes</i> • <i>Preparation of check lists and Survey Formats for case studies</i> 	Lecture, Field Based Surveys, Class room work
Week 8 (starting Feb 13)	Field Work I (Feb 13-Feb 24)	
Week 9 (starting Feb 20) to Week 11 (starting Mar 20)	Academic Exercise 2: Local/ Sub city Level exercise <ul style="list-style-type: none"> • <i>Analsyis</i> • <i>Issues Identification</i> • <i>Strategies and Plans</i> 	Guest Lectures Class room work
Week 12	Internal Assessment-II (March 13-17)	
Week 13 (starting Mar 20)	Academic Exercise 2: Finalization of Proposals and related works, report submission	

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Week 14 (starting Apr 03) to Week 17 (starting Apr 17)	Academic Exercise 3: Rapid appraisal at city level (traffic and travel characteristics) <ul style="list-style-type: none">• <i>Analysys</i>• <i>Issues Identification</i>• <i>Strategies and Proposals</i>	Desktop Studies, Class room work
Week 18	Internal Assessment-III (Apr10-14)	
Apr 28	Finalisation of Internal Marks	

References

1. Kadiyali L. R (2007), Traffic Engineering and Transport Planning, Khanna Publishers, New Delhi.
2. Kansal P (1998), Reading Material on Advanced Transportation Planning, ITPI, New Delhi.
3. Government of India (2015), Urban and Regional Development Plans Formulation and Implementation (URDPFI) Guidelines. Vol. 1, Town and Country Planning Organisation Ministry of Urban Development, New Delhi.
4. Government of India (2014), National Urban Transport Policy, Ministry of Urban Development

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.