

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

Name of Course: Built Environment and Site Planning Studio (BPLN301)

Programme & Sem:	Bachelor of Planning (UG), Semester Three
Course Duration:	July 16 to Nov 14, 2018
Course Coordinator:	Prasanth Vardhan P, Mr., Assistant Prof., Dept. of Planning (prasanth@spav.ac.in) Shakthe S, Ms., Asst. Prof., Dept. of Planning (shakthe@spav.ac.in)
Number of Credits:	15
Subject Category:	Studio
Total Periods/Week:	15 (minimum Attendance Requirement 75%)
Internal Assessment(IA):	250 (minimum pass marks 40%)
End Evaluation(EE):	250 (minimum pass marks 40%) and Aggregate marks 50% [IA+EE].
Total Marks:	500 (to be converted to CGPA credit pattern as per regulations)

Subject Objective:

The focus of the studio exercise is to render students competent enough to handle a spatial planning exercise at a site/neighbourhood level in urban areas. It aims at developing an understanding of the functional and design relationship shared between people, nature and built environment. Design process of site planning with a great sense of scale, environment, economic & cultural factors, density (population/built) and urban built form is sought to be inculcated. To achieve this, residential and mixed residential layouts have been selected as the subject under study, involving the complete understanding and documentation of site and built analysis thereafter re-designing the residential layouts for the selected sites in Vijayawada City Region, Andhra Pradesh.

The quality of life in a site/neighbourhood is influenced based on the set of planning principles and decisions. This academic exercise focuses on the design and development of the built environment, which meets the needs of the community and contribute positively to the objective of sustainable habitat. Every design has a context (demographic and spatial) and a typical built environment to support the functions it performs. Understanding the two aspects makes the process of demand assessment in housing sector more sensitive towards efficient use of land. The objective of the studio is to expose students to -

- Site Planning Process, Site and user analysis
- Various housing typologies & layouts, Built environment
- Assessment of Infrastructure demands & components, Standards and sub-division & building regulations

Study Area

The formation of new state of Andhra Pradesh and further announcement of capital city "Amaravathi" within the city region of Vijayawada has resulted rapid rise of urban population in the city of Vijayawada and surrounding local bodies. Being observed the negative effects of ad-hoc planning and unplanned residential developments in the urban areas, people started giving preference to functional convenience of built environment, comfort and quality of life while selecting the location for habitation and thus results in opportunities for housing developments of various typologies in the city of Vijayawada due to the rapid forces of urbanization. For this academic exercise, city of Vijayawada and the surrounding regions is selected as the study area and the sites (Residential/Mixed Residential layouts) will be selected after the preliminary assessment of projects based on type, scale, location and site characteristics by the students.

This academic exercise is divided into three broad stages. The first stage includes the study of standards, housing typologies, site planning process and design principles; Visual surveys of residential colonies and a study of sub division of land and building regulations. The second stage includes selection of residential and mixed residential layouts in the city of Vijayawada and select study area for the project work based on the assessment of site and built environment considerations. The third stage of the exercise includes detailed site and built environment analysis of the site, user analysis and re-desin the layouts according to the objectives and design considered arrived by the respective groups. The final stage includes detailing of layouts with infrastructure services and costing.

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Studio Schedule

Week	Session Topic (Learning Objective aimed)	Session Mode	References / Suggested Readings
Week 1 (starting July 16)	Site Considerations and Site Planning, Elements of the Dwelling Unit, Housing Controls, Fire Safety and Security, AP Layout & Sub-division Regulations	Lectures, Class room Discussions, Visual Surveys of Residential Colonies	1. Joseph De Chiara, Julius Panero & Martin Zelink, "Time-Saver Standards for Housing and Residential Development", Second Edition, Tata McGraw-Hill. 2. Kevin Lynch and Gary Hack, "Site Planning", Third Edition, MIT Press. 3. Municipal Administration and Urban Development Department – Andhra Pradesh Building Rules, 2012. Government of Andhra Pradesh.
Week 2 (starting July 23)	National Building Codes, Bureau of Indian Standards & Planning Concepts (Neighbourhood Unit, Radburn, Garden City, etc.)		
Week 3 (starting July 30)	Sub-divisions and Land Planning, Services.		
Week 4 (starting Aug 06)	Visits to AP- CRDA approved Layouts.	Desktop Study & Visual Surveys Approved Residential Layouts – AP CRDA (Three)	4. Municipal Administration and Urban Development Department - The Andhra Pradesh Land Development (Layout and Sub-division) Rules, 2017. Government of Andhra Pradesh.
Week 5 & 6 (Aug 13 - 21)	Internal Assessment 1 (Jury & Sheets Submission) – 30% of Internal Assessment Literature Review, Visual Surveys and Preliminary Assessment of Residential Layouts		
Week 7 (starting Aug 27)	Base Map preparation of the case areas and survey formats; Formulation of Objectives; Data check lists; Standards	Class room Discussions and Analysis	5. Municipal Administration and Urban Development Department - The Andhra Pradesh Land Development (Layout and Sub-division) Rules, 2017. Government of Andhra Pradesh.
Week 8 (Sep 01-09)	Field Work Site Analysis, House Hold Surveys,		
Week 9 (starting Sep10)	Site Analysis, Environmental, Socio-economic and Cultural aspects, Analysis of Built Environment, Housing typologies and density analysis, civic and social services; space utilization	Class room Discussions and Analysis	6. Joseph De Chiara, Julius Panero & Martin Zelink, "Time-Saver Standards for Housing and Residential Development", Second Edition, Tata McGraw-Hill. 7. Kevin Lynch and Gary Hack, "Site Planning", Third Edition, MIT Press.
Week 10 (Sep 24-28)	Internal Assessment – II (Mid Semester Examination) – 40% of Internal Assessment		
Week 11 (starting Oct 01)	Revised assessment of Site Analysis and Built Environment based on the general principles and factors of site planning.	Class room Discussions, Analysis & Presentations	8. Joseph De Chiara, Julius Panero & Martin Zelink, "Time-Saver Standards for Housing and Residential

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Week 12 (starting Oct 08)	Project Work (Finalization of Principles and design requirements of Site), Finalization of Concepts and components		Development", Second Edition, Tata McGraw-Hill. 9. Kevin Lynch and Gary Hack, "Site Planning", Third Edition, MIT Press.
(Oct 15 -19)	Dussehra Break		
Week 14 (Oct 22 - 26)	Internal Assessment – III (Presentation/Submission) – 30% of Internal Assessment		
Week 15 (starting Nov 05)	Finalization of Project proposals and components along with revised design requirements, Alternative Strategies	Analysis & Presentations	10. Municipal Administration and Urban Development Department – Andhra Pradesh Building Rules, 2012. Government of Andhra Pradesh.
Week 16 (starting Nov 12)	Sheet Plan of Final submission, Prefinal review of groups (Literature & Project)	Presentations & Submission	11. Municipal Administration and Urban Development Department - The Andhra Pradesh Land Development (Layout and Sub-division) Rules, 2017. Government of Andhra Pradesh.

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.