



School of Planning and Architecture: Vijayawada

(An autonomous institution established by Ministry of Human Resource Development, Govt. of India)
S.No. 71/1, NH-5, Nidamanuru, Vijayawada – 521 104, Andhra Pradesh, India

Department of Architecture

Course: Environment and Behaviour (10210208: Elective - II)

Class: I M. Arch (Sustainable Architecture)

Instructor: Mr. Anil Kumar Chilakapati

Contact Periods/week: 3 hours

Internal Assessment Marks: 100

External Assessment (Theory Examination): **Nil**

Total Marks: 100

Attendance: 75%

Minimum Passing Marks: 50%

This course will explore the social and behavioral factors in environmental design through critical thinking, discussions, and case studies around two questions: (1) how the built or natural environment influences people's behaviors, (2) how people perceive, use, and adapt to their environment.

OUTLINE:

Prediction of environmental attitudes and behavior. Environmental assessment. Environmental Perception and cognition. Perspectives on perception, learning, habituation and perception of change. Models and acquisition of spatial cognition and cognitive maps. Way finding, characteristics, settings.

Introduction to the theories of Environment-Behavior relationships. The nature and function of theories. Arousal approach, stimulation approach, Adaptation level, Behavior constraint and Environmental stress approach. Barker's ecological psychology approach.

Environment and Behavior studies related to Noise, Weather, Climate, Territoriality, Disasters, Crowding. Issues related to built environment such as design of residential, institutional, work, learning and leisure environments.

STRUCTURE:

The lectures will be organized into three sections, including (1) **why** we need to consider social, environmental and behavioral factors in design, (2) **what** social and behavioral factors we should consider, and (3) **how** to address these factors in the environmental design process. Various types of environments will be discussed, ranging from residential and institutional settings, work, learning and leisure environments, to communities and cities.

OBJECTIVES:

In this class, you are expected to (1) become fascinated about social and behavioral factors in environmental design, and (2) learn to examine and address these factors in the design process.

TEACHING PLAN

Sl. No.	Date	Topic of Class/Lecture & Discussion	Nature of Class
1	Week-1	Introduction to the course <ul style="list-style-type: none"> ✓ Introduction: What/Whom do We Design For? ✓ Warm-up: Presentation of Environmental design aspects and Case Studies 	LECTURE
2	Week-2	What social and behavioral factors shall we consider? <ul style="list-style-type: none"> ✓ Human and Nature ✓ Why do we like nature: <i>Nature and environmental design Behavioral observations and design implications</i> ✓ Architecture and Nature ✓ 	LECTURE
3	Week-3	Environmental Perception, Cognition and Wayfinding <ul style="list-style-type: none"> ✓ How do We Perceive and Recognize the Environment? ✓ Wayfinding: What Went Wrong? 	LECTURE
4	Week-4	Environmental Perception, Cognition and Wayfinding <ul style="list-style-type: none"> ✓ Design, Wayfinding and Cognitive Mapping 	LECTURE / EXERCISE
5	Week-5	Environmental Perception, Cognition and Wayfinding Design, Wayfinding and Cognitive Mapping	LECTURE / EXERCISE
6	Week-6	Observing and Studying environment - Behavior relationships <ul style="list-style-type: none"> ✓ The Social Life of Small Urban Spaces: Observing / Discussions.../ Analyzing. 	LECTURE
7	Week-7	Personal Space and Territoriality <ul style="list-style-type: none"> ✓ Personal Space, Territoriality and environmental design ✓ Evaluation and Renovation of Personal Space in Public Settings - Field exercise. 	LECTURE / VIDEO
8	Week-8	Crowd, Noise and Privacy <ul style="list-style-type: none"> ✓ Crowding, noise and privacy and their Implications for Design 	LECTURE / EXERCISE
9	Week-9	Assessment -II	Mid-term Exam -2

Sl. No.	Date	Topic of Class/Lecture & Discussion	Nature of Class
10	Week-10	✓ Social and Behavioral Factors of Housing	LECTURE / EXERCISE
11	Week-11	Pros and Cons of Urban Lives ✓ Architectural solutions for Urban Problems ✓ Cities, Towns, and Architecture	LECTURE / EXERCISE
12	Week-12	How to Study and address social and behavioral factors in design? ✓ Evidence-Based Design	LECTURE / EXERCISE
13	Week-13	Housing Design ✓ Presentation of Research Report for Housing Project	LECTURE / EXERCISE
14	Week-14	Design for spatial experience ✓ Spatial Experiences in Different Cultures	LECTURE
15	Week-15	<u>Assessment - III</u>	term Exam -3
16	Week-16	Submission of Final work	Submission

Break-up of Internal Assessment Marks

S. No.	Stages of Evaluation	Weightage	Note
1	Assignment - I	25Marks	Total internal marks 50 Attending all the tests / assignments / seminars is mandatory
2	Assignment - II	25 Marks	
3	Assignment - III	50Marks	

Reference Books:

1. Chadderton, D. V., "Air Conditioning: A practical Introduction", E & FN Spon, London.
2. Abrams, D. W., "Low Energy Cooling: A Guide to the practical Application of
3. Morgan, T., & Clifford, "Introduction to Psychology", Tata McGraw - Hill Publications New York, 1983.
4. Kayem, S.M., "Psychology in relation to design" Dowden, Hutchinson and Ross, 1973.
5. Hall, E.T., "The Hidden Dimension" New York, Doubleday, 1966.
6. Bell, A. Paul, Greene, C. Thomas, Fisher, D. Jeffrey, Baum Andrew, "Environmental Psychology" Harcourt Brace College Publishers, New York, 1996.

Course Instructors

Head of the Department