



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 : Architectural Design

Class: I B. Arch (A & B section)

Instructors: Prof. Srinivas, Anil Kumar, Madhava Rao, Sita Mahalakshmi, Barun Kumar, Timetable: Thursday & Friday

Contact Periods/week: 9 hours

Internal Assessment Marks: **200**

External Assessment (Viva-Voce): **200**

Total Marks: **400**

Attendance: **75%**

Minimum Passing Marks: **50%**

Course Objective:

To introduce architectural design as a process and as a final product; to understand fundamentals of space, form and order as basic architectural skills.

Design of a simple building in the immediate or observable environment. Exercises relating personal experiences to behavioral needs and translating them into architectural program requirements. Systematic introduction to issues related with the design of human habitat, its components and space standards. Element of site planning and landscaping. Interpretation of site information as a decision-making aid.

TEACHING PLAN

Sl. No.	Date	Topic of Class/Lecture & Discussion	Nature of Class & References
1	Week-1	<p><u>Unit I – Elements of Architecture</u> <u>Topics: (Group Work)</u> Introduction to the course objectives, Lectures on Elements of Architecture. Based on Type and Typology of building, selection of Case study and site visit (Group Work). Type and typology of Building: Place of Spirituality and Monumentality, Place of Livability, Place in relation with Accessibility, Place of Learning, Place of Entertainment, Place of Culture, Place of Work, Place in relation with Services. Study the Elements of Architecture through Theories & Case Studies. Analyzing and Developing Methods to study the Elements of Architecture. Elements of Architecture: Natural Elements/Man Made Elements, Ground/Site, Marker and Focus, Roof and Structure, Openings, Path/Approach/Stairs/Ramp, Barrier, Land and Vegetation.</p>	<p>LECTURE References: Ching Francis D.K., (2012), <i>Architecture: Form, Space and Order</i>, 3rd edition, John Wiley & Sons, Hoboken. Simon Unwin, (2003), <i>Analysing Architecture</i>, Routledge, London. Yatin Pandya, (2007), <i>Elements of Space making</i>, Mapin, Ahmedabad. Peter von Meiss, (1998), <i>Elements of architecture – from form to place</i>, 1st edition, Routledge, New York. Anthony J. Catanese & James C. Snyder, (1988), <i>Introduction to Architecture</i>, Mc Grawhill Books Co., New York. Wong Wucious, (1972), <i>Principles of Two Dimensional Form</i>, John Wiley and Sons. Chiara De and Callender, (1973), <i>Time saver standards for building types</i>, Mc Grawhill Co., New York.</p>
2	Week-2	<p><u>Topics:</u> Lecture and Discussion on Space and Place, Its experience and Language. With response to human aspirations, Activities, Behaviors and Culture.</p>	<p>LECTURE</p>

Sl. No.	Date	Topic of Class/Lecture & Discussion	Nature of Class & References
		Analyzing Elements of Architecture in relation with Space, Place, Type and Typology. Study and Analyzing the Elements of Architecture through Drawings, Study Models, Reading, Writing and Site Visit.	
3	Week-3	Topics: Study and Analyzing the Elements of Architecture through Drawings, Study Models, Reading, Writing and Site Visit.	LECTURE & REVIEW AND SUBMISSION ON UNIT - 1
4	Week-4	Unit 2 - Space, Place and Architecture Topics: Lecture and Discussion on Space, Place and Architecture. Analyzing the Space, Place and Architecture through selected site study and readings. It will be further elaborated in relation with people, activity, behavior, functions, place, Lifestyle and architecture, Circulation, Transition of space, Transparency, figure ground, Built vs. Open, Area and Programme, Hierarchy of Order and space, Geometry, etc.	LECTURE & References: Steele James, (2005), <i>The Architecture of Rasem Badran- narratives on people and place</i> , Thames and Hudson, Schulz Norberg C., (1988), <i>Architecture: meaning and Place</i> selected Essays, 1st American edition, Rizzoli, New York. Schulz Noberg C., (1991), <i>Towards a phenomenology of Architecture</i> , Rizzoli, New York Giedion Sigfried, (2009), <i>Space, Time and Architecture</i> , revised edition, Harvard University Press, Cambridge. Rappoport Amos, (1969), <i>House, Form and Culture</i> , Prentice Hall Inc. N.J. Neils Prak, (1968), <i>The language of Architecture</i> , Mouton & Co., Paul Alan Johnson, (1994), <i>The Theory of Architecture - Concepts and themes</i> , Van Nostrand R einhold Co., New York. Critchlow Keith, (1969), <i>Order in Space</i> , Thames Hudson.
5	Week-5	Topics: Study and Analyzing the Space, Place and Architecture through Drawings, Study Models, Reading, Writing and Site Visit. Studio guidance and Analysis review.	LECTURE
6	Week-6	"ARCHITECTURE IS MAKING THOUGHTFUL SPACES WITHIN AND AROUND BUILDINGS" by Ar. Luis I Kahn - How you can understand this quote? Exploration of 4 different contexts at	Study - Ahmedabad

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		<p>Ahmadabad City: (By 4 groups) Whole studies should be on the inspirations or extractions of book: "ELEMENTS OF SPACE MAKING" - Yatin Pandya, Vastu shilpa foundation & ANALYSING ARCHITECTURE – Simon Unwin.</p> <ol style="list-style-type: none"> 1. Old city's architecture and its elements. 2. Architecture and its Extensions - elemental compositional studies. Any one or two buildings at Ahmadabad designed by well-known architect. 3. CEPT / IIM: study and analytical process of their spaces.(elements and its compositions). 4. Physical manifestations at open spaces. - River front elements and their compositions. 	
7	Week-7	<p>Topics: Study and Analyzing the Space, Place and Architecture through Drawings, Study Models, Reading, Writing and Site Visit. Studio guidance and Analysis review. Review on Case study – Ahmedabad.</p>	Analysis
8	Week-8	<p>Topics: Study and Analyzing the Space, Place and Architecture through Drawings, Study Models, Reading, Writing and Site Visit. Studio guidance and Analysis review.</p>	REVIEW AND SUBMISSION ON UNIT-2
	Week-9	<p>Unit 3 – Space and Structure Topics: Lecture and Discussion on Space, Place and Architecture. Analyzing Space and Structure in relation with Elements & Space, Place and Architecture. Study and Analyzing the Space, Place and Architecture through Drawings, Study Models, Reading, Writing and Site Visit.</p>	<p>Explorations & Discussions References: Ching Francis D.K., (2012), <i>Architecture: Form, Space and Order</i>, 3rd edition, John Wiley & Sons, Hoboken. Simon Unwin, (2003), <i>Analysing Architecture</i>, Roulledge, London.</p>

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9	Week-10	<p>Unit 4 – Space -Structure and Form</p> <p>Topics: Lecture and Discussion on Space and Form. Analyzing Space and Form in relation with Activity, Function and Structure. Study and Analyzing the Space, Place and Architecture through Drawings, Study Models, Reading, Writing and Site Visit. ✓</p>	<p>REVIEW AND SUBMISSION ON UNIT-3</p> <p>References: Giedion Sigfried, (2009), <i>Space, Time and Architecture</i>, revised edition, Harvard University Press, Cambridge. Meiss, Piere Von, (1992), <i>Elements of Architecture: From form to place</i>, E and EN Spon, London. Rappoport Amos, (1969), <i>House, Form and Culture</i>, Prentice Hall Inc. N.J. Wong Wucious, (1993), <i>Principles of Form and Design</i>, John Wiley and Sons. Wong Wuchious, (1977), <i>Principles of Three dimensional Design</i>, Van Nostrand Reinhold Co. Smithies, K.W., (1983), <i>Principles of Design in Architecture</i>, Chapman and Hall. Schirmbeck Egon, (1987), <i>Idea, Form and Architecture-Design principles in contemporary Architecture</i>, Van Nostrand Reinhold. Eckler James, (2012), <i>Language of Space and Form</i>, John Wiley & Sons, Inc., New Jersey. Ching Francis D.K., (2012), <i>Architecture: Form, Space and Order</i>, 3rd edition, John Wiley & Sons, Hoboken. Rudolf Arnheim, (1977), <i>The dynamics of architectural form</i>, University of California Press. Simon Unwin, (2003), <i>Analysing Architecture</i>, Roulledge, London.</p>
10	Week-11	<p>Topics: Study and Analyzing the Space, Place and Architecture through Drawings, Study Models, Reading, Writing and Site Visit. Studio Guidance and Analysis review. ✓</p>	<p>REVIEW AND SUBMISSION ON UNIT-4</p>
11	Week-12	<p>Unit 5 – Studio Design Project – in relation with case studies/Type and Typology of buildings.</p> <p>Topics: Design development, Discussions and Review</p>	<p>References: Leland M.Roth, (3013), <i>Understanding Architecture: Its Experience History and Meaning</i>, third edition, westview press,</p>

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			<p>Philadelphia .</p> <p>Rudolf Arnheim, (1977), <i>The dynamics of architectural form</i>, University of California Press.</p> <p>Neils Prak,(1968), <i>The language of Architecture</i>, Mounton & Co.,</p> <p>Paul Alan Johnson, (1994), <i>The Theory of Architecture – Concepts and themes</i>, Van Nostrand Reinhold Co., New York.</p> <p>Arg Isaac,(1977), <i>Approach to Architectural Design</i>, Butterworth & Co. Ltd., London.</p> <p>Wong Wucious, (1972), <i>Principles of Two Dimensional Form</i>, John Wiley and Sons.</p> <p>Wong Wucious, (1993), <i>Principles of Form and Design</i>, John Wiley and Sons.</p> <p>Wong Wuchious, (1977), <i>Principles of Three dimensional Design</i>, Van Nostrand Reinhold Co.</p> <p>Smithies, K.W., (1983), <i>Principles of Design in Architecture</i>, Chapman and Hall.</p> <p>Schirmbeck Egon, (1987), <i>Idea, Form and Architecture-Design principles in contemporary Architecture</i>, Van Nostrand Reinhold.</p> <p>Marjore Elliott Bevin, (1977), <i>Design through Discovery</i>, Holt Rinehart and Winton, New York.</p> <p>George A Covington and Bruce Hannah, (1996), <i>Access by Design</i>, Van nostrand Reinhold.</p> <p>Steele James, (2005), <i>The Architecture of Rasem Badran- narratives on people and place</i>, Thames and Hudson,</p>
12	Week-13	Topics: Design development, Discussions and Review	REVIEW
13	Week-14	Topics: Design development, Discussions and Review	INTERNAL REVIEW
14	Week-15	Topics: Design development, Discussions and Review	INTERNAL REVIEW AND FINAL SUBMISSION ON UNIT -5

Sl. No.	Date	Topic of Class/Lecture & Discussion	Nature of Class & References
15	Week-16	Topics: Revision	FINALISATION OF INTERNAL ASSESSMENT END OF ACADEMIC SESSION

Note

Total internal marks 200
Attending all the tests / assignments / seminars is mandatory.

Course Instructors

Head of the Department