

**School of Planning and Architecture: Vijayawada**

(An institution of National Importance under the Ministry of Human Resource Development, Govt. of India)
Survey No.4/4, ITI Road, Vijayawada-520008, Andhra Pradesh, India

Department of Architecture**Course:** MSAR221 - Design Studio III**Instructors:** Prof.Dr.Iyer Vijayalaxmi Kasinath and VF**Class:** I M. Arch II Sem A.Y. 2023-24**Internal Assessment:** 50**End Semester Evaluation:** 50**Total Marks:** 100**Credits:** 15**Contact Periods/ week:** 15 periods.(55 min each)**Time Table:** **Monday** 11.45 pm - 12.40pm ;1.30-5.10 **Thursday** 11.45 pm - 12.40pm ;1.30-5.10 ; **Friday** 11.45 pm - 12.40pm ;1.30-5.10**Attendance:** Min 75%**Min. Passing Marks:** 50% each in Internal & External Assessment and 50% in Aggregate**Objective:** To Design buildings Incorporating advanced passive strategies

Out Line of the Course: Introduction of studies related to advanced passive strategies. Understand heat transfer through walls, roof, openings, conduction through floor/ ground, windows heat gain through ventilation and infiltration etc., Use of advanced passive techniques and analysis of thermal transfer through roof and walls for direct and indirect gain such as underground floor storage, earth air tunnels, earth covered structures, rock bed storage, phase change materials for conditioned and non-air conditioned buildings.

LECTURE PLAN

WEEK	DATE	TOPIC OF CLASS LECTURE & DISCUSSION	TOPIC OF STUDIO WORK& ASSIGNMENTS / REMARKS
1	Week. 1 - 2 4 Jan - 12 Jan 2024	Literature Review of various Advanced Passive Techniques Assesment I	APT briefing, Student's presentation and discussion
2	Week. 3 - 4 18 Jan- 25 Jan 2024	Case studies, Project summary and site selection Assessment II	Analysis and discussion
3	Week. 5 29 Jan - 2 Feb 2024	Programmatic Requirements and Site Analysis (Also Mid Sem week)	Student's presentation and discussion
4	Week. 6 5 Feb - 9 Feb 2024	Case study analysis, findings and inferences, and detailed area requirements. Site Analysis Assessment 3	Student's presentation and discussion
5	Week. 7 12 Feb - 16 Feb 2024	Study Tour	0
6	Week. 8 - 9 19 Feb- 01 Mar 2024	Conceptual designs, preliminary application of APS (Assessment 4)	Analysis and discussion
7	Week. 10 - 11 4- 15 March 2024	Schematic designs, preliminary etimation of impact of APS	Analysis and discussion
8	Week. 12 - 13 18-29 March 2024	Final Schemes leading to complete drawings(Assessment 5)	Analysis and discussion

9	Week. 14 - 15 4-12 April 2024	Development of final designs and analysis.	Analysis and discussion
8	Week. 16 19 April 2024	Final Presentations and reports- Assesment 6	Discussion
9	Week. 17 - 18 6 Nov- 22 Nov 2023	Improvement and reassessment if needed	Discussion
10	End Semester Jury		

S. No.	Stages of Evaluation	Weightage in %
1	Continuous assessment through internal design reviews including Mid-semester jury	50
2	End Semester Jury	50
	Total	100

Course Instructors:
(Prof.Dr.Iyer Vijayalaxmi Kasinath)

Head of Department:
(Dr. Uma Sankar Basina)