



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: MSAR125 Research Methodology

Instructors: Dr. Iyer Vijayalaxmi Kasinath

Contact Periods/ week: 03 periods.(50 min each)

Time Table: Tuesday 01:30pm - 04:15pm

Attendance: Min 75%

Class: I M. Arch (Sustainable Architecture)
& I.MBEM (Building Engineering
Management) II Sem, I MUD- A.Y. 2023-24

Internal Assessment: 50

External Jury: 50

Total Marks: 100

Credits:3

Min. Passing Marks: 40% each in Internal & External Assessment and 40% in Aggregate

Objective: Research methodology increases the understanding of research process and the role of research in Architecture. It enhances the student's abilities to interpret, evaluate and conduct research. It Enables the student to write Technical Papers and Technical Reports.

9

LECTURE PLAN

WEEK	DATE	TOPIC OF CLASS LECTURE & DISCUSSION	TOPIC OF STUDIO WORK& ASSIGNMENTS / REMARKS
1	Week-1 09-01-2024	Concepts of Research - Orientation to research process	Lecture
2	Week-2 16-01-2024	Architectural research process: Historical, Qualitative, Correlational and Experimental research	Lecture + Exercise
3	Week-3 23-01-2024	Types of Research – exploratory, descriptive, analytical, predictive; Research approaches – quantitative/ qualitative/mixed,	Lecture + Exercise
4	Week-3 30-01-2024	Elements of research process	Lecture + Exercise
5	Week-4 06-02-2024	Title writing, abstract - Structured and unstructured abstract (Review 1)	Lecture + Exercise
6	Week-6 13-02-2024	Study Tour	
7	Week-7 20-02-2024	Research Question, Research Gap	Lecture + Exercise
8	Week-8 27-02-2024	Reviewing literature using theory, defining, delimiting and stating the significance of the study (Review 2)	Lecture + Exercise
9	Week-9 04-03-2024	Procedures for data collection and analysis: primary and secondary data	Lecture + Exercise using Climate Measurement Instruments (anemometer, Thermometer, Hygrometer, Surface temperature measurements)

10	Week-10 11-03-2024	Data Analysis (Review 3)	Lecture + Exercise
11	Week-11 18-03-2024	Questionnaire survey: interviews structured and unstructured, open ended and close ended questions and the advantages,	Lecture + Exercise
12	Week-12 25-03-2024	Methods and Materials (Review 4)	Lecture + Exercise
13	Week-13 02-04-2024	Role of internet, finding and evaluating sources; Report writing and its components	Lecture + Exercise
14	Week-14 10-04-2024	Extra Class due to Holiday on 09-04-2024 Analysis Methods and Conclusions (Review 5)	Lecture + Exercise using simulation
15	Week-15 16-04-2024	Writing & publishing the research work in journals Components: referencing - Writing the bibliography - Developing the outline – presentation, Plagiarism	Lecture + Exercise
16	Week-16 17-04-2024	Preparation of Research paper	Discussion

S. No.	Stages of Evaluation	Weightage in %
1	Internal assessment (assignments, exercises)	40
2	Mid-semester Examination	10
3	End Semester Examination	50
	Total	100

Reference Books

- Booth, Wayne C., Colomb, Gregory G., Williams, Joseph M. 2003. The Craft of Research. Second Edition. Chicago: University of Chicago Press.
- Andrew Knight and Les Ruddock, 2008. Advanced Research Methods in the Built Environment, John Wiley & Sons, UK.
- Iain Borden, Kaaterina Ruedi, The Dissertation: An Architecture Student's Handbook, Architectural Press, 2000
- Ranjith Kumar, Research Methodology - A step by step guide for beginners, Sage Publications, 2005
- John W Creswell, Research design: Qualitative, Quantitative and Mixed method approaches, Sage Publications, 2002
- Linda N. Groat, David Wang, Architectural Research methods, Wiley, 2nd edition, 2013

Course Instructors:

sd/-
(Dr. Iyer Vijayalaxmi Kasinath)

Head of Department:

sd/- (Dr. Uma Sankar Basina)