

Sl. No.	Sub. Code	Theory	Contact Hours			Credit
			L	T	P/S	
3.	22AR833	Research Methods	3	0	0	3

**Course Objective** The subject exposes the students to a general understanding of research and different research methodologies. To emphasize on the development of critical and technical writing and composing skills by inculcating an attitude towards analytical reading.

**Anticipated Learning Outcomes:** Ability to source information on a chosen topic, clearly understand, collate, analyse, reflect upon it by means of a strategic discussion. Enable students to understand how research projects/topics can be converted to design projects/ proposals and writing research papers.

**Module 1** Introduction to research. Meaning of Research, research process. Types of research. Research Process. Introduction to research Methodology. Identification of area of interest, Types of dissertations, Appropriate Methodology for respective thesis (Time factor) Pre – thesis studies.

**Module 2** Research Design.  
Building upon a hypothesis, formulating synopsis, Identifying the research component in thesis.  
Sample Design. Types of sample design.

**Module 3** Measurement and scaling. Types of data. Types of scale.  
Data Collection. Collection of Primary and Secondary data. Various methods of data collection: Questionnaire surveys, Case study method, etc.

**Module 4** Orient the students towards research applications in Architecture by making them familiar with various research methods available for design programming, behavioural studies and environmental mapping.  
Report writing. Steps in report writing. Citation and bibliography.

**Module 5** Course teacher may take up any other topic as seen relevant.

**Note: Most Architectural subjects do not have Textbooks. The Reference books mentioned below are for reference only and University question paper should be prepared from the Syllabus descriptions.**

### References

1. Sanoff, H. (1991). *Visual Research Methods in Design*. New York: John Wiley and Sons.
2. Kothari, C.R. and Garg, G., *Research Methodology: Methods and Techniques*, New Age International Publishers.
3. Anderson, J. and Poole, M. (1998). *Thesis and assignment writing*. Brisbane: John Wiley.
4. Borden, I. and Ray, K. R. (2006). *The dissertation: an architecture student's handbook*. 2nd Ed. Oxford: Architectural Press.
5. Fink, A. (1998). *Conducting research literature reviews: from paper to the Internet*. Thousand Oaks: Sage.
6. Murray, R. (2005). *Writing for academic journals*. Berkshire: Maidenhead, Open University Press.