

**Department of Statistics**  
**Institute of Social Sciences**  
**Dr. Bhimrao Ambedkar University, Agra**

**Value Added Course: Research Methodology**

Course Duration: 30 hours

Maximum Marks: 100

**Course Objectives**

Unit	Objectives
I	Understand some basic concepts of research and its methodologies
II	Identify and formulate research problem
III	Study the types, tools and Methods of Research and develop the ability to construct data appropriate to the Research Design.
IV	Be able to appreciate and understand importance of writing scientifically.

**Course Content**

Unit	Content	Time
I	<b>Research formulation and Design</b> <ol style="list-style-type: none"> <li>1. Meaning, purpose, and scope of research in various fields</li> <li>2. Types of Research</li> <li>3. Selection of Research Problem</li> <li>4. Research Objectives: Definition and formulation of hypothesis/objectives</li> <li>5. Research Process</li> <li>6. Research Design</li> </ol>	10 hours
II	<b>Sampling and Data Gathering Instruments/ Tools</b> <ol style="list-style-type: none"> <li>1. Basics of Sampling: Sampling vs. Complete Enumeration Sampling Techniques, Size and Error</li> <li>2. Primary and Secondary Data</li> <li>3. Methods and Tools in Data Collection</li> <li>4. Measurement and Scaling Techniques</li> </ol>	10 hours
III	<b>Introduction to Statistical Analysis and Report Writing</b> <ol style="list-style-type: none"> <li>1. Basic concepts of processing and analysis of data</li> <li>2. Introduction to interpretation and report writing</li> <li>3. Layout of Research Report</li> <li>4. Referencing in academic writing Abstracting and Bibliography</li> </ol>	10 hours

## Course Outcomes

Students who successfully complete this course will be able to:

- Explain key research concepts and issues
- Read, comprehend and explain research articles in their academic discipline
- Develop and practice the skills necessary to conduct, review and publish the research articles and thesis

## References

1. C. R. Kothari: Research Methodology- Method and Techniques
2. R. Kumar: Research Methodology: A step by Step Guide for Beginners
3. M. H. Gopal: Introduction to Research Methodology for Social Sciences
4. Good, Carter, Scales and Douglas: Methods of Research
5. R. Panneerselvam, Research Methodology