

**Course: EDU-101**

**RESEACH METHODOLOGY FOR BEGINNERS**

**School of Educational Sciences**

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## Index

1. Foreword
2. Introduction to course
3. Modules 1: **INTRODUCTION**
4. Module 2 : **METHODS OF RESEARCH**
5. Module 3: **SAMPLING AND METHODS OF DATA COLLECTION**
6. Module 4 : **METHODS OF DATA ANALYSIS**
7. Module 5: **REPORT WRITING AND EVALUATIONS**
8. Assignments
9. Evaluation : MCQs
10. References

## FOREWORD

This course is planned for the students of PG students, M.Phil./Ph. D. students who are beginning stage of research. It provides the knowledge regarding the concepts, planning and methods related to research in general which may be applied by them in their particular discipline or particular courses.

The function of the course is to generate interest and provide the knowledge to develop research ability among the students. It comprises 05 modules based on the content of Research Methodology relevant to successful completion of the course.

We appreciate your participation in this new modality of learning.

## **Introduction to Course**

### **Outline of the Course:**

Every research practitioner begins with no clear ideas of research, how to identify a researchable problem, how to collect the data, how to select sample, how to write the proposal? There are many WHATs? WHYs? HOWs? before the beginners. The appropriate answers to these questions needs the knowledge of research methodology. The present course is designed to help such beginner who is seeking answers for questions mentioned here.

The course will help the students of different disciplines to *comprehend some basic concepts of research and its methodologies, identification of problems, variables and components related to problem, preparing a research proposal, organize and conduct research understanding research literature and presenting research.*

This course is planned for the students registered to M.Phil. or Ph.D. program in any discipline. It provides the knowledge regarding the concepts, planning and methods related to research in general which may be applied by them in their particular discipline or particular courses. The function of the course is to generate interest and provide the knowledge to develop research ability among the students. It comprises 05 modules based on the content of Research Methodology relevant to successful completion of the course.

### **Objective of the Course:**

- To enable student to understand and work with methods and concepts related to Research
- To enable the student to develop research proposal and to work with research problem
- To develop broad comprehension of research process

### **Outcome of the Course:**

- Students will be able to understand research works & writing in their relevant fields of knowledge.
- Students will be able to apply methods & tools for research in their relevant fields of knowledge.

- Students will be able to understand the process of report writing and evaluation of the report.
- Student will be able to apply knowledge of Research Methodology for preparation of research proposals, research reports in their relevant fields of knowledge.

**Syllabus:**

**Modules 1: PROCESS OF RESEARCH**

- Scientific inquiry and its nature
- Meaning, purpose and characteristics of research
- Types of research and their characteristics
- Steps of Research

**Module 2 : METHODS OF RESEARCH**

- Methods of Research : Historical, Case study, Ethnography, Ex post facto, documentary and content analysis, survey and experimental studies
- Characteristics of methods and their implications in research area

**Module 3: SAMPLING AND METHODS OF DATA COLLECTION**

- Concept of sampling and other concepts related to sampling
- Probability and non-probability samples, their characteristics and implications
- Tools of data collections, their types, attributes and uses (questionnaire, observation, interviews, scales and tests etc )

**Module 4 : METHODS OF DATA ANALYSIS**

- Analysis of qualitative data based on various tools
- Analysis of quantitative data and its presentation with tables, graphs etc. importance of quantitative data analysis
- Statistical tools of data analysis- measures of central tendency, dispersion, relative position etc.

**Module 5: REPORT WRITING AND EVALUATIONS**

- Writing and presentation of preliminary, main body and reference section of report
- Evaluation of research report