

Annexure-I

Course Name: Research Methodology

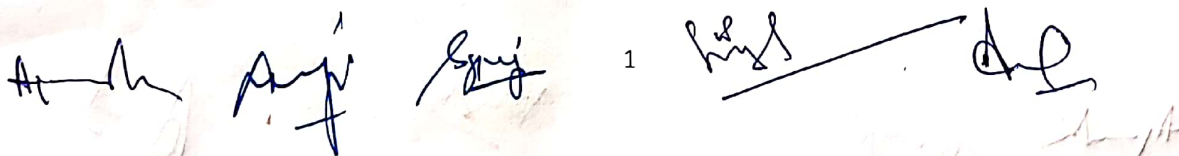
Course Matrix:

Course Code	Course title	Credit	CIA	MSE	ESE	Max Marks	Semester	Course Type
(To be given by Academic Branch)	Research Methodology	4	20	30	50	100	III	Core

Course Description: The course objectives are to develop students' understanding of the research process, including formulating research questions, selecting appropriate methodologies, and analyzing data. It aims to enhance research writing skills, enabling students to effectively structure research reports, communicate findings, and adhere to proper citation and referencing conventions. The course also emphasizes critical thinking skills in evaluating and synthesizing research literature to draw valid conclusions based on rigorous research principles.

Course Objectives:

1. To demonstrate knowledge and understanding of the research process, including research questions, methodologies, data collection, and analysis techniques.
2. To apply research methodologies to design and conduct research studies, select appropriate data collection methods, and analyze research data using appropriate statistical or qualitative analysis techniques.
3. To critically evaluate research literature, identify research gaps, and formulate research questions and hypotheses based on existing knowledge and theories.
4. To generate well-structured research reports and presentations that effectively communicate research findings, utilizing appropriate writing styles, formatting, and citation conventions.



5. To evaluate the ethical implications of research misconduct, including falsification, fabrication, and plagiarism, and demonstrate an understanding of responsible research conduct.

6. To synthesize research findings and draw valid conclusions, integrating various sources of information and applying critical thinking skills to interpret and analyze research data

Course Outcomes:

LO1: Understand the fundamental principles and concepts of research methodology, including research design, data collection, analysis, and interpretation, to conduct rigorous and valid research studies.

LO2: Apply various research methods and techniques, such as qualitative, quantitative, and mixed methods approach, to design and execute research projects in diverse academic disciplines and professional settings.

LO3: Develop essential skills in literature review, data gathering, data analysis, and report writing, enabling effective communication of research findings and contributing to scholarly knowledge.

LO4: Demonstrate knowledge and adherence to ethical principles and guidelines governing research conduct, including issues related to informed consent, privacy, confidentiality, conflicts of interest, and responsible research practices.

LO5: Critically evaluate research studies, methodologies, and ethical considerations, demonstrating the ability to assess the strengths, limitations, and ethical implications of research findings and methodologies.

LO6: Engage in ethical decision-making processes and effectively address ethical challenges and dilemmas that may arise du

Unit I Scientific Method in Social Research

Nature of Science and Scientific Enquiry; Steps in Social Research; Objectivity and Subjectivity in Social Research; Hypothesis; Theory and Research; Theory Building

Unit-II Research Design and Sampling

Research Designs: Meaning, Nature and Significance; Types- Exploratory,

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Descriptive and Experimental Sampling: Meaning and Significance Probability and Non-Probability Sampling and their Sub-types

Unit-III Methods of Research

Quantitative Methods- Meaning and Characteristics: Types-Observation, Interview, Questionnaire and Schedule Qualitative Methods- Meaning and Characteristics: Types- Case study and Content Analysis Ethnography and its significance

Unit-IV Statistical Analysis of Data

Measures of Central Tendency- Mean, Median and Mode: Measures of Variability- Standard Deviation, Test of Significance- Chi-Square and t-test Use of Computers in Social Research- MS-Word and MS-Excel

Unit-V Academic Writing and Presentation Skill

Defining Research Problem Literature review, Writing research proposal, Literature survey, Hypothesis and its significance, writing research objectives, Article writing and publishing, research paper writing synopsis/thesis /dissertation writing

References

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