

Elementary Research Methodology (For B.Sc. and BCA)

Course Title: Elementary Research Methodology	Course Code: 24ERMSCI5S
Total contact Hours:30 hrs	No. of Credits: 02
L:T:P: 2:0:0	Duration of SEE: 1.30 hr
Internal Assessment Marks: 10	
Semester End Exam marks: 40	

Course Objective: After completion of this course, students will be

- (i) Familiar with the principles behind research work
- (ii) Acquainted with practical knowledge of research work and
- (iii) Able to perform a research work in their field independently or in collaboration

Unit-I	Introduction to Research Methodology: Introduction, definition and Meaning, characteristic of research, objectives of Research. Types of Research: Basic Research, Applied Research, Empirical Research, Quantitative Research, Longitudinal Research and Simulation Research. Attributes of A Good Research: Research method and Research Methodology, Scientific Methods and Research. Research process: Idea generation, Theoretical Analysis of the Problem, Problem definition, Developing hypothesis and Objectives, Research Design, Drawing a sample, Designing the instrument, Data collection, Knowledge creation, Analysis of data, Hypothesis testing, Data interpretation, Reporting and Presentation. Significance of Research. Research in India.	15
Unit- II	Research Problem and Preparing Research Proposal: Introduction, criteria of a good research problem, source of a problem, selection and definition of a problem, research proposal and its types. Contents of research proposal: Executive summary, problem statement, review of literature, research methodology, data analysis , budget and resources, time table, bibliography, appendices,. Design of Research Proposal: Steps in writing the report, Procedure for writing bibliography, references, guidelines for writing the report. Ethics in research, Plagiarism. Case studies.	15

Reference Books:

1. Shashi K. Gupta, Praneet Rangi, Research Methodology. Methods, Tools and Techniques, Kalyani Publishers, 5th Edition 2017.
2. C. R. Kothari (1990). Research Methodology, Vishwa Prakashan, India.
3. Robert E. Slavin (1994). Research Methodology in Education: A practical guide, prentice Hall.

4. Robert A Day (1994). How to write and publish a scientific paper, Cambridge University press.
5. F. N. Kerlinger (2000). Foundations of Behavioral Research, Surjeet Publication, New Delhi.
6. S.R. Bajpai (1990). Methods of Social Survey and Research, Kitabghar, Kanpur

QP Pattern

Paper Code:

Paper Title: Elementary Research Methodology

Course Code: 24ERMSCI5S

Max Marks. 40.

Time: 1.5 hrs.

IA Marks: 10.

There shall be Theory examination of **Multiple Choice Based Question (MCQ) with Question Paper of A, B, C and D series** at the end of each semester for **Skill papers for the duration of 1.5 hour. The Answer Paper is of OMR (Optical Marks Reader) Sheet.**