

B.Sc. V Semester – Elementary Research Methodology for all Science Domain

Course Learning Objectives:

1. Explain the meaning, objectives, significance and types of research.
2. Describe the steps involved in the research process.
3. Define a research problem and justify the need for its clear formulation.
4. Describe the important concepts relating to research designs.
5. Explain the Ethical and Scientific issues in Research.
6. Explain the different funding agencies for the research.

Course Outcomes:

1. Students who complete this course will be able to understand the basics of research methodology and apply them in research/project work.
2. This course will help them to select an appropriate research design.
3. With the help of this course, students will be able to take up and implement a research project/study.
4. The students will help to know about ethical and scientific issues in research.

UNIT-1: Research Methodology

16 Hours

Introduction - Meaning, Objectives, Types of Research, Significance of Research, Research Methods versus Methodology, Research and Scientific Method, Research Process, Criteria of Good research.

Defining the Research Problem – Research Problem, Selecting the Problem, Necessity of Defining the Problem, Technique Involved in Defining a Problem.

UNIT-II: Research Design

16 Hours

Research Design – Meaning, need for Research design, features of a Good Design, Important Concepts relating to Research Design.

Government Funding Agencies for Research – Ethical and Scientific issues in Research, A brief idea about the DST, ICMR, CSIR, UGC, VGST, ANRF. Role of IPR (Intellectual Property Rights) in Research and Development.

Text Book:

1. C. R. Kothari (2004) Second Edition, Research Methodology: Methods and Techniques (New Age International, New Delhi)


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Question Paper Pattern

V Semester B.Sc./BCA Degree Examinations - 2024-25
(Semester Scheme, New Syllabus: 2024-25)
Paper: Elementary Research Methodology

Paper Code:

Time: 2 Hours

Max Marks: 40

Instructions to candidates:

- I. All sections are compulsory
- II. Draw neat and labeled diagrams wherever necessary

SECTION-A

1. Answer any **FIVE** of the following (2 x 5=10)
- a)
 - b)
 - c)
 - d)
 - e)
 - f)
 - g)
 - h)

SECTION-B

- Answer any **SIX** of the following (5 x 6= 30)
- 2.
 - 3.
 - 4.
 - 5.
 - 6.
 - 7.
 - 8.
 - 9.


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