

Course Code	Course Name	Credits
<b>ILO8026</b>	<b>Research Methodology</b>	<b>03</b>

**Objectives:**

1. To understand Research and Research Process
2. To acquaint students with identifying problems for research and develop research strategies
3. To familiarize students with the techniques of data collection, analysis of data and interpretation

**Outcomes:** Learner will be able to...

1. Prepare a preliminary research design for projects in their subject matter areas
2. Accurately collect, analyze and report data
3. Present complex data or situations clearly
4. Review and analyze research findings

Module	Detailed Contents	Hrs
<b>01</b>	<b>Introduction and Basic Research Concepts</b> <b>1.1</b> Research – Definition; Concept of Construct, Postulate, Proposition, Thesis, Hypothesis, Law, Principle. Research methods vs Methodology <b>1.2</b> Need of Research in Business and Social Sciences <b>1.3</b> Objectives of Research <b>1.4</b> Issues and Problems in Research <b>1.5</b> Characteristics of Research: Systematic, Valid, Verifiable, Empirical and Critical	<b>09</b>
<b>02</b>	<b>Types of Research</b> <b>2.1.</b> Basic Research <b>2.2.</b> Applied Research <b>2.3.</b> Descriptive Research <b>2.4.</b> Analytical Research <b>2.5.</b> Empirical Research <b>2.6</b> Qualitative and Quantitative Approaches	<b>07</b>
<b>03</b>	<b>Research Design and Sample Design</b> <b>3.1</b> Research Design – Meaning, Types and Significance <b>3.2</b> Sample Design – Meaning and Significance Essentials of a good sampling Stages in Sample Design Sampling methods/techniques Sampling Errors	<b>07</b>
<b>04</b>	<b>Research Methodology</b> <b>4.1</b> Meaning of Research Methodology <b>4.2.</b> Stages in Scientific Research Process: <b>a.</b> Identification and Selection of Research Problem <b>b.</b> Formulation of Research Problem <b>c.</b> Review of Literature <b>d.</b> Formulation of Hypothesis <b>e.</b> Formulation of research Design <b>f.</b> Sample Design <b>g.</b> Data Collection <b>h.</b> Data Analysis <b>i.</b> Hypothesis testing and Interpretation of Data <b>j.</b> Preparation of Research Report	<b>08</b>

<b>05</b>	<b>Formulating Research Problem</b> <b>5.1</b> Considerations: Relevance, Interest, Data Availability, Choice of data, Analysis of data, Generalization and Interpretation of analysis	<b>04</b>
<b>06</b>	<b>Outcome of Research</b> <b>6.1</b> Preparation of the report on conclusion reached <b>6.2</b> Validity Testing & Ethical Issues <b>6.3</b> Suggestions and Recommendation	<b>04</b>

### **Assessment:**

#### **Internal Assessment for 20 marks:**

Consisting **Two Compulsory Class Tests**

First test based on approximately 40% of contents and second test based on remaining contents (approximately 40% but excluding contents covered in Test I)

#### **End Semester Examination:**

Weightage of each module in end semester examination will be proportional to number of respective lecture hours mentioned in the curriculum.

1. Question paper will comprise of total **six questions, each carrying 20 marks**
2. **Question 1** will be **compulsory** and should **cover maximum contents of the curriculum**
3. **Remaining questions will be mixed in nature** (for example if Q.2 has part (a) from module 3 then part (b) will be from any module other than module 3)
4. Only **Four questions need to be solved**.

### **REFERENCES:**

1. Dawson, Catherine, 2002, Practical Research Methods, New Delhi, UBS Publishers Distributors.
2. Kothari, C.R., 1985, Research Methodology-Methods and Techniques, New Delhi, Wiley Eastern Limited.
3. Kumar, Ranjit, 2005, Research Methodology-A Step-by-Step Guide for Beginners, (2<sup>nd</sup> ed), Singapore, Pearson Education