

SEMESTER- III

Course Title	RESEARCH METHODOLOGY
Total Hrs.	75
Hrs./Week	5
Sub.Code	21PCPH33
Course Type	DSC-IX
Credits	4
Marks	100

General Objective:

To expose the students to propose new research project.

Course Objectives:

CO No.	The learners will be able to
CO-1	Understand the steps involved in the research process.
CO-2	Summarize the various types and methods of research.
CO-3	Organize the planning of research.
CO-4	Explain the art of report writing.
CO-5	Develop knowledge about the tools for research.

UNIT - I FOUNDATION OF RESEARCH (15 Hours)

Meaning of Research- Objectives of Research- characteristics of Research- Motivation in research – Research method versus Research methodology – Research and scientific method - Research process – steps involved in the research in the research process - Criteria for good research - Importance of research methodology in scientific research

UNIT – II TYPES AND METHODS OF RESEARCH (15 Hours)

Classification of Research- Pure and Applied Research- Exploring or Formulative Research-Descriptive Research- Diagnostic Research/Study- Evaluation research/Studies- Action Research- Experimental Research- Analytical Study of Statistical Method- Historical Research- Surveys Case Study- Field Studies.

UNIIT - III REVIEW OF LITERATURE AND PLANNING OF RESEARCH

(15 Hours)

Need for Reviewing Literature- Literature Search Procedure- Sources of Literature- Planning of Review work- Note Taking- Library and documentation-The planning process- Selection of a Problem for Research- Formulation of the Selected Problems- Research Design- meaning of research design –Need for research design-Features of good design- Different research design.

UNIT – IV REPORT WRITING (15 Hours)

Types of Reports-Planning of Report Writing-Research Report Format-Principles of Writing Documentation- Data and Data Analysis Reporting in a Thesis- Writing of Report- Typing of Report- Art of writing a scientific paper-Format synopsis writing – Roles of research supervisor and scholar

UNIT – V TOOLS FOR RESEARCH (15 Hours)

Internet and its applications – infolibnet - e-journals - e-books - Technology Tools for Researchers-Zotero-Scopus- QuickCalcs-Zenodo-EndNote-google scholar- Research gate-arXiv-SJ Finder-F100Prime-Power Point Presentation - Multimedia techniques in presenting a scientific paper in a seminar.

TEXT BOOKS

1. C. R. Kothari, “Research Methodology: Methods and Techniques”, New Age International Publishers, ISBN:81-224-1522-9.
2. S.Rajasekar, P.Philominathan and V. Chinnathambi, “Research Methodology”, RPC Publications, Tirunelveli-11, 2016.
3. Yavuz Orug, “ Handbook of Scientific Proposal Writing”, CRC Press, USA, (2012).

REFERENCE BOOKS

1. Dr S.L. Gupta and Hitesh Gupta, “Research Methodology – Text and Cases with SPSS Applications”, International Book House Pvt Ltd.
2. T N Srivastava and Shailaja Rego, “Business Research Methodology”, Tata Mcgraw Hill Education Private Limited, New Delhi.
3. O.R. Krishnaswami, “Methodology of Research in Social Sciences”, Himalaya Publishing House, New Delhi.
4. Dr S. K Khandelwal, “Business Statistics”, International Book House Pvt Ltd, New Delhi.
5. Dr S. K Khandelwal, “Quantitative Techniques”, International Book House Pvt Ltd, New Delhi.

Course Outcomes

CO No.	Upon completion of the course, the students will be able to	PSOs Mapped	Cognitive Level
CO-1	Comprehend the foundation of research, objectives and various criteria in research field.	1,2,3	Understanding
CO-2	Identify the research leading to a Master thesis.	2,3	Applying
CO-3	Analyse the Literature Review procedure, sources of literature and planning of review work.	1,2,3	Analyzing
CO-4	Explain the various types and methods of research	1,2,4	Evaluating
CO-5	Develop knowledge to use various tools for research	1,2	Creating

Relationship Matrix

Semester	Course Code	Title of the Course					Hours	Credits			
III	21PCPH33	CORE PAPER IX RESEARCH METHODOLOGY					75	4			
Course Outcomes (COs)	Programme Learning Outcomes (PLOs)					Programme Specific Outcomes (PSOs)					
	PLO1	PLO2	PLO3	PLO4	PLO5	PSO1	PSO2	PSO3	PSO4	PSO5	
CO-1	✓	✓	✓	✓	✓	✓	✓	✓			
CO-2	✓	✓	✓	✓	✓	✓	✓		✓		
CO-3	✓	✓	✓	✓	✓	✓	✓	✓			
CO-4	✓	✓	✓	✓	✓		✓	✓			
CO-5	✓	✓	✓	✓	✓	✓	✓				
Number of matches (✓) = 38 Relationship = High											