

Paper-I : RESEARCH METHODOLOGY

2016-17 Onwards

5 Credits/

Max. Marks: 100

Min. Pass. Marks: 50

Unit-I: Introduction to research methodology: Meaning, Objectives and Types of research, Motivation in research, Research approaches, and Research methods verses methodology, Significance of research, Criteria of good research, Research design, Components.

Unit-II: Research problem: What is research problem? Identification, and Selection of Research problem, Formulation of Research objectives, Domain and boundaries of research problem, Research problem analysis, Variables and parameters, Technique selection.

Unit-III: Writing of research paper: Research and scientific method, Survey method, Experimental method, Research process, Research paper preparation, Synopsis writing, Writing a research project, Research support agencies, Preparation of project report, Writing a dissertation, Writing thesis, Writing of review articles, Plagiarism prevention.

Unit-IV: Research presentation: Presentation of project proposal, Presentation of project report, Presentation at research degree meeting, A poster presentation of research paper, Direct (Oral) presentation of research, Presentation of Talk, Presentation and Delivering of Plenary Lecture, Virtual/Tele presentation.

Unit-V: Testing of Hypothesis: Definition, elements of testing of hypothesis- simple & compound hypothesis, null & alternate hypothesis, degrees of freedom, level of significance, errors of two kinds, Parametric tests- t, F, Z Chi-square etc. and non-parametric tests- Run, Median, Mann Whitney etc. for testing of hypothesis, Limitations of tests of hypothesis

Reference books:

1. C.R. Kothari, Research Methodology, New Age International publishers (2004).
2. Catherine Dawson, Practice Research Methods, UBS Publishers Distributors, New Delhi (2002).
3. Ranjit Kumar, Research Methodology – A step by step Guide for Beginners (2nd Ed.), Singapore Pearson Education (2005).
4. Michael Devis, Ethics and the University, Routledge (1999).
5. Montgomery, Douglas C. (2007), 5/e, Design and Analysis of Experiments, (Wiley India).
6. Montgomery, Douglas C. & Runger, George C. (2007), 3/e, Applied Statistics & Probability for Engineers (Wiley India).

Privalan
24/6/2016
A. D. N. S.

Dele
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Janu
24/06/16

M. D. D. W. e
24/6/16