

Syllabus for Course Work

Course No: PhD 001

Course Title - Research Methodology

UNIT-I

- Definition of Research Problem.
- Scientific Method; Meaning, Characteristics and Major Steps
- Research - Concept, Definition, Area, Scope, Steps and Types
- Survey - Concept, Types and Importance
- Formulation and Selection of the Research Problem
- Defining Research Objectives
- Review of Literature, Preparation of Index Card for reviewing and abstracting
- Hypothesis : Concept, Significance, Scope and Objectives of research, Types and Tests
- Research Design : Need, Problem Definition, Research Design process, Errors in Research, Concept, Significance, methods and Types
- Sources of Data : Primary and Secondary

UNIT-II

- Methods of Data Collection : Observation, Interview, Questionnaire
- Tools of Data Collection: Observation Guide, Interview Schedule, Questionnaire, Case Study, Field Survey (Sampling).
- Sampling : Significance, Characteristics, Types and Selection of Sample
- Interpolation, Extrapolation, Forecasting from data.
- Processing of Data : Editing, Coding, Classification and Tabulation, Analysis and Interpretation of Data
- Research Modelling- types, stages of models building, Simulation, Types of simulation, Simulation languages.
- Research Techniques : Content Analysis, Sociometrie Technique Project i.e. Technique and Scaling Techniques
- Application of Statistics – processing and analysis of data
- Measures of Central Tendency, T-Test and Test of Significance, measures of asymmetry (skewness), Measures of relationship, Forecasting, Linear Regression, Time series.

(P.T.O.)

UNIT-III

- Fundamentals of Computers – Its use
- Windows Operating System - File Management; Menu Bar : Tool Bar
- MS Word, MS Excel and MS Power Point, MATLAB, LATEX
- Application of SPSS, SYSTAT, 3D software
- Internet Operations - Introduction to Internet; Search Engines, Its Utility in Research

UNIT-IV

- Thesis Writing: Significance, Steps, Format, Layout, Types, Precautions and Presentations
- Review of Literature writing and presentation
- Preparation of Synopsis, Research Article, Thesis typing, formatting and proof-reading, Oral presentation.
- Equations, Abbreviations, Tables, Figures. Citation of Tables and figures, Figure numbering and Tables numbering, Headings and Sub-headings numbering.
- Footnotes, Endnotes, use of Diacritical Marks
- Citation and Documentation style (Quotations, References, Bibliography and Index)
- Proof checking of manuscript, Uniformity in manuscript
- Presentation of Results (B&W, colour schemes), Copyright and Patents
- Salient Findings, Research contributions, Limitations of the research work
- Avoidance of Plagiarism and Academic Integrity.
- Making proper reply to questions and queries of examiners.

Suggested Readings:

1. Cooper & Schindler, Business Research Methods, Tata McGraw Hill.
2. Saunders, Research Methods for Business Students, Pearson Education.
3. Allen T Harrell, New Methods in Social Science Researchs, Praeger Publishers, New York
4. Beri, G.C., Statistics for Management, Tata MacGraw-Hill
5. Chandan J. S., Statistics for Business and Economics, Vikas Publications.
6. Broota, K.D., Experimantal Designs in Behavioural Research, New Age International
7. Singh A. K., Test Measurement and Research Methods in Behaviours Sciences, Bharti Bhawan
8. Joyce Cox & Polly Urban, Microsoft Office, Galgotia Publishing
9. Sinha P.K., Computer Fundamentals, BPB Publishing.

****Latest editions of all the suggested books are recommended.***