Course Code	Course Title	С	Н	Ι	E	T
7P1KMC4	Research Methods and Statistics	4	5	25	75	100

Unit I Introduction of Research

18 Hrs

Meaning – Definition - Classification - Nature and Scope- Significance – Benefits - Types of Research - Methods of Research-Research Process – Identification – Selection - Formulation of a research Problem- Necessary of defining problem. Research Design – Meaning - Features of good research design - Preparation of model research design.

Unit II Sampling

18 Hrs

Meaning - Advantages and Limitations - Steps - Types - Sampling and Non-sampling errors. Data Collection - Primary and Secondary - Investigation - Methods - Survey method - Case study method - Observation - Interview schedule - Questionnaire - Pre-testing - Pilot study - Sources of Secondary data. Scaling Technique - Meaning - Basis of Classification- Techniques - Attitude-scaling. Processing, Analysis and Interpretation of data.

Unit III Data Analysis

18 Hrs

Correlation and Regression Analysis – Meaning - Multiple & Partial - Hypothesis - Types - Testing of hypothesis - Test of significance for Small (t test) and Large samples – The Chi-Square – Goodness of fit test.F Test and Analysis of variance. (hands on training through SPSS).

Unit IV Analysis of Time series

18 Hrs

Components of Time series - Measurement of Trend - Measurement of Personal variations - Seasonal variations - Cyclical variations - Irregular variations (hands on training through SPSS).

Unit V Research Report

18 Hrs

Meaning - Significance – Types – Contents – Layout - Precautions in writing a research report - Model Research Report.

Text Book

1. C.R. Kothari & Gaurav Garg, "Research Methodology Methods and Techniques", Third Edition, 2016, New Age International Publishers, New Delhi.

Reference Books

- 1. S.L. Gupta & Hitesh Gupta, "Business Research Methods", 2015, Tata McGraw Hill Education Pvt. Ltd., New Delhi.
- 2. Anil Kumar Mishra, "A hand Book on SPSS for Research Work", 2011, Himalaya Publishing House.
- 3. O.R. Krishnaswami & M. Renganathan, "Methodology of Research in Social Science", Second Edition, 2015, Himalaya Publications, Mumbai.
- 4. TN. Srivastava & Shailaja Rego, "Business Research Methodology", 2012, McGraw Hill Education Private Ltd., New Delhi.
- 5. S.P. Gupta, "Statistical Methods", Forty Fourth Edition, 2014, Sultan Chand & Sons, New Delhi.