

BMS Semester: III
Paper No: 5
Course Code: 3005
Paper: Quantitative Techniques for Business
Marks: 100 (Internal 25 + External 75)
Credits: 4
Semester End Examination: 75 Marks
Continuous Internal Evaluation: 25 Marks
Duration of the Exam: 3 hours

Objectives:-

The students will be able to gain theoretical and practical knowledge of statistical methods and apply them in various areas of Business.

Internal Evaluation Criteria:

All modes of internal evaluation should be conveyed to the students in the beginning of the semester.

| Criteria | Mode of Evaluation | Marks |
|--|------------------------------|--------------|
| Problem solving | Score | 10 |
| Unit test, viva-voce, assignments, internal objective test | Review Report / presentation | 15 |
| | Total | 25 |

| Module | Unit No. | Detailed Syllabus | Teaching Hours | Marks/ Weightage |
|---------------|-----------------|---|-----------------------|-------------------------|
| I | 1 | <p>Collection of data Collection of primary data through questionnaires and personal interview, and observation method, collection of secondary data from public sources and selection of appropriate method for data collection</p> <p>Measures of central Tendency Arithmetic mean, median, mode, weighted average, quartiles, deciles, percentiles, graphical presentation of median & modes.</p> | 15 | 25 |
| II | 2 | <p>Measures of Dispersion Range, Quartile Deviation and its coefficient, Mean Deviation, Standard deviation, co-efficient of variation (C.V.)</p> | 15 | 25 |
| III | 3 | <p>Introduction to Probability Introduction to Probability Distribution with focus on Normal Distribution</p> | 15 | 25 |
| IV | 4 | <p>Correlation and Regression Co-relation, Scatter Diagrams, Karl Pearson's correlation and rank correlation (spearman), Linear Regression, Line of regressions, Regression coefficients, multiple and partial correlation.</p> <p>Analysis of times series Concept, Components, estimation of Trend values by moving average and least square method.</p> <p>Ethical Practices related to Quantitative Techniques for Business</p> | 15 | 25 |
| | | Total | 60 | 100 |

Reference Books:

1. S.C.Gupta, Fundamental of statistics –Himalaya Publication, 2001
2. S.P.Gupta, Statistical methods by - S.Chand Publication, 2009
3. V.K Kapoor, Solution to problems in statistics –2007