DEPARTMENT OF HUMANITIES &SOCIAL SCIENCES
Programme: B. Tech (Minor in Economics)
Course Title: Business Statistics

Course Category: Minor	**Internal: 50 Marks**
Course Code: HSME 302	**Theory: 50 Marks**
Credits: 3 (L-3)	**Total: 100 Marks**
Semester: 5th	**Time: 3hrs**

Course Objectives
1. To develop the skills to deal with numerical and quantitative issues in businesses
2. To have understanding of statistical applications in Economics and Management
3. To apply probability distributions to solve various business problems.

Instructions for Examiner

The number of questions to be set will be five, at least one from each unit. The examinees will be required to attempt all five questions. All questions shall carry equal marks.

Unit I

Statistical Description of Data: Statistical Representation of Data, Diagrammatic representation of data, Frequency distribution, Histogram, Polygon, Ogive, Piechart

Unit II

Measure of Central Tendency and Dispersion: Mean, Median, Mean Deviation, Quartile and Quartile Deviation, Standard Deviation and Co-Efficient of Variation

Unit III

Probability & Theoretical Distribution: Probability, Mathematical Expectation, Basic applications of Binominal, Poisson and normal Distributions,

Unit IV

Correlation and Regression: Karl Person's Coefficient of Correlation, Rank Correlation, Regression Equations and Coefficients; Index Numbers and its uses, Components of Time Series and calculation of Trend of Moving Average Methods

Course Outcomes

The course will equip students to get understanding of data summarization, finding trends, pattern and association in the real time data of numerous discipline- engineering, economics, finance, health, education, etc. for better decision making.

Suggested Readings
1. Business Statistics by S.P. Gupta & M.P. Gupta Introduction to Statistics, C.B. Gupta
2. Business Statistics by Mr. R.S. Bhardwaj, Excel Book Publication
3. Business Statistics by Richard Levin
4. Business Statistics by Ken Black, Tata McGraw Hiil Publication