Course title: **Statistics**
Semester: 4th

Marks: external 56+4 (attendance)

Course Code: BCA-GE-4105

Credits: 6

tutorial assessment: 30

Unit-I

Concept of population and sample, raw data, attributes and variables, types of data (primary, secondary data, qualitative and quantitative data), methods of collecting data, frequency distribution, cumulative frequency distribution and their graphical representation, histogram, frequency polygon and ogive curves.

Unit-II

Measures of central tendency, mean, mode & median with merits & demerits, Characteristic of a good average, empirical relationship between mean, mode & median.

Dispersion: Absolute & Relative measures of dispersion (range, quartile deviation, mean deviation & standard deviation), coefficient of variation.

Unit-III

Concept of correlation & its types, methods of studying correlation, scattered diagram method, Karl Pearson's & Rank method, properties of correlation coefficient.

Meaning of regression, regression lines, regression coefficients & their properties.

Unit-IV

Probability: Random experiment, sample point & sample space, event, operation of events, mutually exclusive & exhaustive events, classical & axiomatic approach of probability, independent events, addition & multiplication laws of probability (for two events), conditional probability & its applications.

Books recommended

1. Fundamentals of Statistics by S.C Gupta (S.Chand & Sons)
2. Statistical Methods by S.P. Gupta