COURSE: B.Com (prog) CBCS, Semester II (sec B)

Paper BC 2.3: BUSINESS MATHEMATICS AND STATISTICS

Theory : 3 Lectures

SUBJECT OBJECTIVES: The objective of this course is to familiarize students with the applications of Statistical techniques in business decision making.

LESSON PLAN (for the year APRIL 2021-AUGUST 2021)
(Unit-wise)

UNIT/ SESSION/ HOURS (TIME REQUIRED)	TOPICS FOR STUDENT PREPARATION (INPUT)	PROCEDURE (Tools)	LEARNING OUTCOME (OUTPUT)	ASSESSMENT
Unit II: Uni-variate Analysis	(a) Measures of Central Tendency: Arithmetic mean, Geometric mean, Harmonic mean- Properties and applications. Median and other Partition values (quartiles, deciles, percentiles), Mode. (b) Measures of Dispersion: absolute and relative- Range, Quartile deviation, Mean deviation, Standard deviation and their coefficients; Properties of Standard deviation/ Variance.	*online Lecture with the help of google meet. *used animated videos and presentation for theoretical part *used presentations and numbers to solve practical part.	develop an understanding of the various averages and measures of dispersion to describe statistical data.	Evaluation through test

Unit III: Bi-variate Analysis	**(a) Simple and Linear Correlation analysis: Meaning, Measurement (Karl Pearson's co-efficient and Spearman's Rank correlation) and Properties.** **(b) Simple and Linear Regression Analysis: Regression equations and estimation; properties of Regression coefficients; Relationship between correlation and regression.**	*online Lecture with the help of google meet. *used animated videos and presentation for theoretical part * used presentations and numbers to solve practical part.	**understand the relationship between two variables through correlation and regression.**	Evaluation through test
Unit IV: Index Numbers	**Meaning and uses; Construction of index numbers: Aggregatives and average of relatives – simple and weighted; Tests of adequacy of index numbers; Computation and uses of Consumer Price Index (CPI).**	*online Lecture with the help of google meet. *used animated videos and presentation for theoretical part * used presentations and numbers to solve practical part.	**understand the construction and application of index numbers to real life situations.**	Evaluation through test

Unit V: Time Series	**Components; additive and multiplicative models; Trend analysis - moving averages and method of least squares (linear trend).**	*online Lecture with the help of google meet. *used animated videos and presentation for theoretical part * used presentations and numbers to solve practical part.	**understand the trends and tendencies over a period of time through time series analysis.**	Evaluation through test