PROGRAM	**Bachelors Of Commerce /Bachelors Of Commerce(Hons)**
SEMESTER	**II**
COURSE TITLE	**Business Statistics**
COURSE CODE	**04BC1205**
COURSE CREDITS	**4**
COURSE DURATION	**48 Hrs (48 sessions of 60 minutes each)**

COURSE OUTCOMES:

- Acquire a fair degree of proficiency in comprehending statistical data, processing and analyzing it.
- Apply various measures of central tendency and measures of dispersion in data analysis.
- Analyze the relationship between two variables using concepts of correlation and regression and its use in prediction.
- Develop an understanding of the index numbers and their utility in daily life and stock market.
- Analyze and apply the concept of probability and distributions in managerial decision making.

Teaching and Examination Scheme

Teaching Scheme (Hours)			Credits	Internal Marks (50%)		End-Semester Examination (50%)			Total Marks
Theory	Tutorial	Practical		IA	CSE	Theory	Practical/Viva	Term Work (TW)	
3	1	0	4	30	20	50	0	0	100

COURSE CONTENTS:

Unit No	Unit / Sub Unit	Sessions
I	**Data Preparation and Presentation** Introduction, Classification of Data , Organizing data using data array, Tabulation of Data ,Graphical Presentation of Data , Types of Diagrams , Exploratory Data Analysis. Use of MS-Excel to create Frequency Distribution and Graphs.	8
II	**Measures of Location and Scale** Introduction, Mathematical Averages , Geometric Mean , Harmonic Mean Relationship Among AM,GM & HM, Partition Values, Mode, Relationship Between Mean , Median and Mode , Comparison between Measures of Central Tendency, Range; Quartile deviation; Inter Quartile Range; Mean Deviation; Standard Deviation; Variance & Coefficient of Variation; Concept of Skewness & Kurtosis. Use of MS Excel Statistical function to find descriptive measures.	10

III	**Bivariate Analysis** Introduction, Significance of Measuring Correlation, Correlation and Causation, Types of Correlation , Methods of Correlation Analysis. Two lines of regression , regression coefficients , prediction . Use of MS Excel Statistical Function to compute correlation and regression .	10
IV	**Construction of Index Numbers** Introduction, Definition, Types, Characteristics and Uses of Index numbers; Methods of Construction of Index numbers (Price, Quantity, Value), Unweighted Index numbers, Weighted Index numbers (Laspeyre's, Paasche's, Fisher's, Marshall-Edgeworth, Dorbish-Bowley's Index numbers).	10
V	**Probability and Probability Distribution** Introduction to Permutation and Combination, Counting Rules ,Concepts of Probability, Definition of Probability, Rules of Probability(Addition and Multiplication). Mathematical Expectation, Binomial Distribution, Normal Distribution – Properties and Applications.	10

SUGGESTED READINGS:

Text Books:

Sr. No	Author/s	Name of the Book	Publisher	Edition and Year
T-01	J.K.Sharma	Business Statistics	Vikas Publishing House Pvt. Ltd	4th edition,2014
T-02	N D Vohra	Business Statistics	McGraw Hill Education	1st edition,2012
T-03	R P Hooda	Statistics for Business and Economics	Vikas Publishing House Pvt. Ltd	5thedition,2015

Reference Books:

Sr. No	Author/s	Name of the Book	Publisher	Edition and Year
R-01	Sancheti D.C. and Kapoor V.K	Statistics: Theory, Methods & Application	Sultan Chand & Sons	7th.edition,2014
R-02	S.C. Gupta	Fundamentals of Statistics	Himalaya Publishing House	7th.edition,2015
R-03	Beri, G.C	Business Statistics	TMH	3rd.edition,2009