INSTITUTE	FACULTY OF MANAGEMENT STUDIES
PROGRAM	BACHELOR OF BUSINESS ADMINISTRATION (HONS.)
SEMESTER	2
COURSE TITLE	STATISTICS FOR BUSINESS
COURSE CODE	04BB0203
COURSE CREDITS	4

Course Outcomes: After completion of this course, student will be able to:

1. Acquire a fair degree of proficiency in comprehending statistical data, processing and analyzing it.
2. Apply various measures of central tendency and measures of dispersion in data analysis.
3. Analyze the relationship between two variables using concepts of correlation and regression and its use in prediction.
4. Analyze the patterns revealed by the time series data and use it to make predictions for the future.
5. Analyze and apply the concept of probability and distributions in managerial decision making.

Pre-requisite of course: N/A

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
4	0	0	50	30	20	0	0

Contents : Unit	Topics	Contact Hours
1	**Classification and Tabulation** 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
2	**Measures of Central Tendency and Dispersion** 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

Contents : Unit	Topics	Contact Hours
3	**Correlation and Regression** 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
4	**Trend Analysis in Time Series** Introduction ,Components of Time Series; Additive and Multiplicative Models; Fitting of Linear Trend Line, Second degree Parabola by Using Principles of Least Squares	10
5	**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
Total Hours		**48**

Textbook :

1 Business Statistics , J.K.Sharma, Vikas Publishing House Pvt. Ltd, 2014
2 Business Statistics, N D Vohra, McGraw Hill Education, 2012
3 Statistics for Business and Economics, R P Hooda, Vikas Publishing House Pvt. Ltd, 2015

References:

1 Statistics: Theory, Methods & Application, Statistics: Theory, Methods & Application, Sancheti D.C. and Kapoor V.K, Sultan Chand & Sons , 2014
2 Fundamentals of Statistics, Fundamentals of Statistics, S.C. Gupta , Himalaya Publishing House, 2015
3 Business Statistics , Business Statistics , Beri, G.C, TMH, 2009

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery and evaluation					
Remember / Knowledge	**Understand**	**Apply**	**Analyze**	**Evaluate**	**Higher order Thinking**
20.00	30.00	25.00	15.00	10.00	0.00

Instructional Method:

1 Theory
2 Practical Sums

MR. PARAS CHANDULAL RUGHANI   DR. SUNIL KUMAR JAKHORIA

Digitally signed by (Name of HOD)   **Digitally signed by (Name of Dean/ Principal)**