

INSTITUTE	FACULTY OF MANAGEMENT STUDIES
PROGRAM	BACHELOR OF BUSINESS ADMINISTRATION
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

