

BUSINESS STATISTICS

Name of Course	Semester	Core/Elective/Allied/Practical/Project	Course/Paper Code	Course/Paper Title	Credit	Internal Marks	External Marks	External Exam Time Duration
B.B.A.	III	Core	19BBA303	Business Statistics	3	30	70	2 ½ Hours

Note : Total Lectures 45 in Each semester.

COURSE OBJECTIVES

- To clear the Fundamental of Statistics
- Improve Logical Abilities
- To develop Research Aptitude

COURSE CONTENT

Unit - 1	Linear Correlation	Marks	No. of lectures
	<ul style="list-style-type: none"> · Definition of variables · Meaning and Definition of Correlation · Types of Correlation · Properties of Correlation coefficient · Method of Correlation <ol style="list-style-type: none"> 1. Scatter Diagram 2. Karl Pearson's Correlation method 3. Spearman's Rank Correlation method · Probable Error of Coefficient of Correlation · Co-efficient of Correlation from bivariate frequency distribution · Examples 	14	10
Unit - 2	Linear Regression		
	<ul style="list-style-type: none"> • Meaning and Definition of Regression • Definition of Regression coefficient • Properties of Regression coefficients & Relation between Correlation and Regression coefficient • Two lines of Regression • Regression Co-efficient from bivariate frequency distribution • Examples 	14	10
Unit - 3	Probability		
	<ul style="list-style-type: none"> · Concept of Probability · Definition of Different Terms (Random Experiment , Sample Space, Types of Events...etc) · Mathematical and Statistical Definition of Probability · Addition Theorem, Condition Law, Multiplication Theorem For Two Events With Proof · Examples 	14	9
Unit - 4	Mathematical Expectation and Binomial Distribution		
	<ul style="list-style-type: none"> · Concept of Discrete Random Variable and its Probability Distribution · Mathematical Expectation of Discrete Random Variable. · Mean and Variance of Discrete Random Variable. · Probability Distribution Function of Binomial Distribution · Properties and Application of Binomial Distribution · Mean and Variance of Binomial Distribution without Proof · Examples 	14	8

REFERENCES

- Fundamental of Mathematics and Statistics by V.K. Kapoor and S.C. Gupta – Sultan & Chand
- Fundamentals of Statistics by S. P. Gupta - Sultan & Chand
- Elements of Statistics by Elhance

