

FY B.Com. (Bachelor of Commerce)
1060204203 BUSINESS STATISTICS-I

First Year B.Com

Semester – II

Subject Name	BUSINESS STATISTICS-I
Subject Code	1060204203
Objectives	The objective of the course is to familiarize students with the basic concept and tools in statistics to help the decision making.
Subject Outcome	To develop the students' ability to deal with numerical and quantitative issues in business.
Course Duration	The course duration is of 40 sessions of 60 minutes each.
Teaching Methods	The course will use the following pedagogical tools: <ul style="list-style-type: none"> ▪ Classroom teaching ▪ Case study / Practical examples / Interactive class room discussions.
Evaluation	Continuous Evaluation
	Internal Assessment-(30 Marks) Internal Exam/Assignments/Quiz/Class participation/Attendance, etc.
	External Assessment- (70 Marks)

Course Contents

Unit 1	INTRODUCTION TO BUSINESS STATISTICS	10%
	<ul style="list-style-type: none"> ▪ Definition, Importance & Limitation. Collection of data, Classification of data, Class interval, Types of Classes, Class frequency, Class mark, Class Boundaries, Width of a class, Frequency density, Relative frequency, Percentage frequency, Cumulative frequency, and formation of frequency distribution. 	
Unit 2	MEASURES OF CENTRAL TENDENCY	15%
	<ul style="list-style-type: none"> ▪ Introduction, Arithmetic Mean, Median and Mode, Quartiles - Properties, Merits & Demerits. 	
Unit 3	MEASURES OF DISPERSION	15%
	<ul style="list-style-type: none"> ▪ Introduction, Range, Coefficient of range, , Quartile deviation, Coefficient of quartile deviation, Mean deviation and coefficient of 	

	mean deviation, Variance and Standard Deviation for all types of frequency distribution, Coefficient of Dispersion, Coefficient of variation	
	CORRELATION ANALYSIS & REGRESSION ANALYSIS	40%
Unit 4	<ul style="list-style-type: none"> ▪ Definition of Correlation, Types of Correlation, Scatter Diagram Method, Karl Person's Correlation Coefficients, Correlation Coefficients for Bivariate frequency distribution, ▪ Definition of Regression, Regression lines, Regression Coefficients, Properties of regression Coefficients, and Fitting of regression lines and estimation for Bivariate Regression. 	
	STATISTICAL QUALITY CONTROL	20%
Unit 5	<ul style="list-style-type: none"> ▪ Control Charts: Importance of statistical methods on industrial research and practice. Concept of statistical quality control (S.Q.C.) for variables and advantages. ▪ General theory control charts. Specification limits tolerance limits modified control limits and their inter relationship. ▪ Control charts for variable: X and R charts. 	

Reference Books:

1. Business Mathematics - Sancheti and Kapoor, SultanChand& Sons.
2. Business Statistics-G V Shenoy, U K Shrivastava & S C Sharma (New Age International P. Ltd)
3. Gupta, S.P., "Statistical Methods," Sultan Chand & Sons, 2004.
4. Mathematical Statistics - Saxena and Kapoor.
5. Pavate D.C. Bhagwat : The Element Calculus : Popular Prakshan, Bombay Gupta S.P. : Statistical Method : S.chand& Co., New Delhi.
6. Statistics – D C Sancheti, V K Kapoor (SultanChand and Sons)
7. Statistics for Management - Levin Rubin (Prentice Hall India)
8. Statistics for management - Rubin & Levin (Prentice-Hall-India Pvt Ltd)