

BHAGWAN MAHAVIR UNIVERSITY, SURAT**SY B.Com. (Bachelor of Commerce)****1060204304 - BUSINESS STATISTICS - II**

Second Year B.Com

Semester - III

Subject Name	Business Statistics - II
Subject Code	1060204304
Objectives	<ul style="list-style-type: none"> To describe data with descriptive statistics. To perform statistical analysis. To interpret the result of statistical analysis. To make inferences about the population from sample data.
Subject Outcome	<ul style="list-style-type: none"> Describe and discuss the key terminology, concepts tools and techniques used in business statistical analysis Critically evaluate the underlying assumptions of analysis tools Discuss critically the uses and limitations of statistical analysis Conduct basic statistical analysis of data
Course Duration	The course duration is of 45 sessions of 60 minutes each.
Teaching Methods	<p>The course will use the following pedagogical tools:</p> <ul style="list-style-type: none"> Lectures Chalk and Talk.
Evaluation	Continuous Evaluation
	Internal Assessment-(30 Marks) Internal Exam/Assignments (Unit wise one)/Class participation/Attendance etc.
	External Assessment- (70 Marks)

Course Contents

Unit 1	PROBABILITY DISTRIBUTION	25%
	1.1 Discrete random variable	
	1.2 Prob. Distribution of a discrete random variable	
	1.3 Binomial distribution - Probability Mass Function and Its Properties	
	1.4 Poisson Distribution - Probability Mass Function and Its Properties	
	1.5 Uses of Binomial and Poisson Distribution	
	1.6 Practical sums	
Unit 2	NORMAL PROBABILITY DISTRIBUTION	25%
	2.1 Introduction and its meaning	
	2.2 Probability mass function and its Properties	
	2.3 Uses of Normal distribution	
	2.4 Practical Sums	

Unit 3	STATISTICAL QUALITY CONTROL	30%
	3.1 Introduction 3.2 Quality and Quality Control 3.3 Variation in Quality 3.4 Theory of Control Chart 3.5 Theory of Run 3.6 Specification Limit , Process Limit and Revised Limit 3.7 Uses of S.Q.C. 3.8 Chart for Attributes -p, np and c-Chart	
Unit 4	RANDOM VARIABLE AND ITS MATHEMATICAL EXPECTATION	20%
	4.1 Introduction 4.2 Definition of random variable 4.3 Discrete probability distribution 4.4 Mathematical expectation mean and variance and problems on these 4.5 Without proof solution	

Text Book:

1. Harikumar N.P., Fundamentals of Business Statistics, Himalaya Publication.(2017-18)

Reference Books:

1. Black ,Ken, (2013), Applied Business Statistics-Making Better Business Decisions [Seventh Edition], Wiley India Edition
2. Business mathematics - D.C.Sancheti, V.K.Kapp
3. Business Statistics ,Nazneen Khan Sarguroh , Dr. Abhilasha S. Magar
4. D.C., V.K.Kapoor Statistics [Theory, Methods & Applications] [Seventh Edition], New Delhi, Sultan Chand & Sons
5. Gupta, S.P., (2017), Statistical Methods, 45th edition, New Delhi, S. Chand & Sons.
6. Statistics for Business and Economics , Anderson, Sweeney, Williams, (2017), [India Edition],CENGAGE Learning, E-book
7. T.N.Srivastava& Shailaja Rego, (2016), Statistics for Management, 3rd Edition, New Delhi, McGraw Hill Education.