



SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25))
Syllabus with effect from the Academic Year 2022-23

(BBA) (GENERAL) Semester (IV)

Course Code	UM04DBBA72	Title of the Course	STATISTICS FOR MANAGEMENT - II
Total Credits of the Course	03	Hours per Week	03

Course Objectives:	<ol style="list-style-type: none">1. This course aims to furnish the students with the Mathematical and Statistical required for business management and to know the function of Mathematics and Statistics in the Management field.2. To provide college students with reinforcement of Mathematical and Statistical computations.
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Course Content		
Unit	Description	Weightage * (%)
1.	Probability (a) Terminology: Event , Sample space, Mutually exclusive , equally likely, exhaustive , joint, dependent, independent events (b) Definitions : Mathematical , Statistical and Axiomatic (c) Addition and multiplication rules of probability for two and three events respectively (d) Mathematical Expectation: Meaning and properties. Examples on $E(x)$; $V(x)$	25%
2.	Probability Distributions (a) Meaning and importance of probability distributions (b) Binomial, Poisson, Normal distribution: Meaning, Conditions, pdf ,properties and uses.	25%
3.	Statistical Quality Control (SQC) (a) Meaning , Importance's and Principles of SQC (b) Charts for variables (Mean and Range chart) (c) Charts for Attributes (p, np & c charts). and related examples.	25%
4.	Sampling Methods (a) Terminology :Population ,Sample, Parameter, Statistics (b) Characteristics of ideal sample (c) Population Survey V/s Sample Survey (d) Concept of Sampling errors and Non-Sampling Errors (e) Sampling Methods: Procedure, Merits, Demerits :Simple Random Sampling, Stratified random Sampling, Systematic Sampling , examples based on SRS Method.	25%
Teaching- Learning Methodology	Lecturer, Assignment, Quiz, Seminars, Content Focused Methods and Interactive / Participative Methods.	





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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Lead to the student to understand how to process and interpret information to arrive at logical conclusions to common business mathematical and statistical applications.
2.	Apply the knowledge of mathematics and statistics in solving business problems.
3.	Analyse and demonstrate mathematical and statistical skills required in intensive areas in Economics and business

Suggested References:	
Sr. No.	References
1.	Sancheti & Kapoor: Statistic: Theory, Methods and Applications, Sultan Chand & Sons, New Delhi
2.	Kapoor, V. K.: Business Mathematics, Sultan Chand and Sons, New Delhi
3.	Soni, R. S.: Business Mathematics, Pitamber Publishing House
4.	Trivedi and Trivedi: Business Mathematics, Pearson India Limited. New Delhi

On-line resources to be used if available as reference material
On-line Resources: https://www.investopedia.com/terms/correlation https://www.investopedia.com/terms/timeseries





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