SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat (Reaccredited with 'A'
Grade by NAAC (CGPA 3.11) Syllabus with effect from
the Academic Year 2024-25

(BBA) (ITM) Semester (III) NEP-2020

Course Code	UM03IDBBI01	Title of the Course	STATISTICS FOR MANAGEMENT
Total Credits of the Course	04	Hours per Week	04

Course Objectives:	•This course aims to furnish the students with the Mathematical and Statistical requirements for business management and to know the function of Mathematics and Statistics in the Management field. • To provide students with reinforcement of Mathematical and Statistical computations.

Course Content

Unit	Description	Weightage* (%)
1.	**Correlation:** (a) Introduction and meaning, interpretation and types of correlation, (b) Method to study Correlation: Scatter Diagram, Karl Pearson's Product Moment Methods, Spearman's Rank Correlation. (C) Properties of Correlation and Example based on Probable Error	25%
2.	**Regression** (a) Introduction and meaning (b) Regression Lines, Regression Coefficients, Regression Equations (c) Properties of Regression, examples based on regression line equations, regression co-efficients.	25%
3.	**Index Numbers** (a) Introduction and Meaning and Importance of Index Numbers. (b) Construction of wholesale Price Index Number (c) Time Reversal Test and Factors Reversal Test (d) Cost of Living Index Number and related examples.	25%
4.	**Time series analysis** (a) Meaning, importance and components (b) Methods to study trend: Free hand curve, Moving average (3,4,5 yearly), Least square method (Linear Trend) (c) Seasonal indices by Simple average method	25%

Teaching-Learning Methodology	Lecture, Assignment, Quiz, Seminars, Content- Focused Methods and Interactive / Participative Methods.

Evaluation Pattern As per Sardar Patel University Letter :(E-3/2384) (06/01/2024)		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	50%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	
3.	University Examination	50%

Course Outcomes: Having completed this course, the learner will be able to	
1.	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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