

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

COURSE PLAN (November 2024 – April 2025)

Department : Commerce
Name/s of the Faculty : Dr. S. Shanthi
Course Title : Business Statistics
Course Code : 23CM/AC/BS25
Shift : I

COURSE OUTCOMES (COs)

Cos	Description	CL
CO1	Demonstrate knowledge on various statistical techniques	K1
CO2	Apply parametric and non-parametric tests in hypothesis testing	K2
CO3	Analyse the statistical tools and techniques to arrive at rational decisions	K3
CO4	Compute the statistical parameters to forecast business trends	K4
CO5	Undertake research in various business fields	K5

Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
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Nov 18 – 25, 2024 (Day Order 1-6)	1	Analysis of Time Series 1.1 Utility and Component of Time Series 1.2 Methods of Measuring Trend – Graphic, semi average, Moving Average and Method of Least squares	K1 – K2 K2 – K5	1 4	CO 1 – 3 CO 1-5	Lecture Lecture & Problem Solving	I CA and Component Home Assignment Data Analysis on Time Series
Nov 26- Dec 3, 2024 (Day Order 1 to 6)	1	1.2 Second Degree Parabola and Exponential Trends 1.2.1 Shifting the Trend origin 1.2.2 Conversion of Annual trend to monthly trend	K2 – K5	5	CO 1-5	Problem Solving Data Collection	I CA and Component – Data Analysis on Times Series
Dec 4-11, 2024 (Day Order 1 to 6)	1 2	1.3 Measurement of Seasonal Variation Correlation and Regression 2.1 Simple Linear Correlation Analysis - Karl Pearson's Co-Efficient	K1 – K2 K1 – K5	4 1	CO 1-2 CO 1-5	Lecture and Problem Solving Problem solving	I CA and Component Data Analysis on Times Series Home Assignment I CA
Dec 12-19, 2024 (Day Order 1 to 6)	2	2..1 Spearman's Rank Correlation ,Bi variate Analysis 2.2 Partial Correlations	K1 – K5 K1 – K4	5	CO 1-5	Lecture and Problem Solving	I CA Home Assignment
Dec 20, 2024 (Day Order 1)	2	2.2 Multiple Correlations	K1 – K4	1	CO 1-5	Problem Solving	I CA

Jan 3 – 7, 2025 (Day Order 3 to 6)	2	2.3 Regression Analysis and Regression Equation and Estimation	K2 – K5	4	CO 1-5	Problem Solving	I CA
Jan 8 – 17, 2025 (Day Order 1 to 6)	2 3	2.3 Bi variate Analysis Test of Hypothesis 3.1 Procedure for Testing Hypothesis	K2 – K5 K1 – K2	4 1	CO 1-5	Lecture and Problem Solving Lecture	I CA Home Assignment
Jan 18 - 23, 2025	C.A. Test – I						
Jan 24 -31, 2025 (Day Order 1 to 6)	3	3.2 Test of Significance for Large Sample	K1 – K4	5	CO1-5	Lecture and Problem Solving	II CA
Feb 3-8, 2025 (Day Order 1 to 6)	3	3.3 Test of Significance for Small Sample	K2 – K5	5	CO1-5	Lecture and Problem Solving	II CA and component on Hypothesis testing
Feb 10– 18, 2025 (Day Order 1 to 4)	3 4	3.3 Test of Significance for Small Sample (Contd.) Chi- square Test 4.1. Meaning and Conditions for applying Chi – Square Test Uses and Limitations of Chi Square Test	K1 – K2 K1 – K2	1 2	CO1-5 CO1-5	Lecture and Problem Solving Lecture	II CA and component II CA
Feb 19- 26, 2025 (Day Order 1-6)	4	4.2 Application of Chi – Square Test	K1 – K5	5	CO1-5	Lecture and Problem Solving	II CA and component on Hypothesis testing

Feb 27- Mar 6, 2025 (Day Order 1 to 6)	4	4.2.1 Test of Homogeneity 4.2.2 Test of Independence 4.3 Yate's Correction	K1 – K5 K1 – K2	5	CO1-5	Lecture and Problem Solving	II CA and component on Hypothesis testing
Mar 7 – 11, 2025 (Day Order 1 to 3)		Analysis of Variance 5.1 Variance Ratio Test 5.2 Assumptions of Analysis of Variance	K1 – K3		CO1-5	Lecture and Problem Solving	II CA and Component Home Assignment
Mar 12 –17, 2025	C.A. Test – II						
Mar 18 – 20, 2025 (Day 4 to 6)	5	5.3 Techniques of Analysis of Variance 5.3.1 One Way Classification Model	K3 – K5	2	CO1-5	Lecture and Problem Solving	II CA and Component
Mar 21 - 28, 2025 (Day Order 1 to 6)	5	5.3.2 Two Way Classification Model	K3 – K5	3	CO1-5	Lecture and Problem Solving	Home Assignment
Mar 29- April 2, 2025 (Day Order 1 to 3)	REVISION						