STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

COURSE PLAN (November 2024 – April 2025)

Department : Mathematics

Names of the faculty : Dr. Arul Roselet Meryline S

Course Title : MATHEMATICS FOR COMPUTER SCIENCE II

Course Code : 23MT/AC/MS45

Shift : II

Class and Section : BCA -A

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	define and recall the basic statistical tools and techniques available to study any given data	K1
CO2	understand the core principles and terminology of statistics, including population, sample and distribution functions	K2
CO3	apply the knowledge and extract meaningful insights and patterns from data, enabling informed decision-making	K3
CO4	examine and interpret data through rigorous statistical methods and techniques	K4
CO5	develop problem-solving skills by using statistical methods to address complex and multifaceted issues in real life	K5

Week	Unit No.	Content	Cognitive Level	Teaching Hours	Cos	Teaching Learning Methodology	Assessment Methods
Nov 18 – 25, 2024 (Day Order 1-6)	I	**Theoretical Distributions** 1.1 Binomial Distribution 1.2 Properties of Binomial Distribution	K1-K5	5	CO1-5	Problem Solving and Group Work	Quiz and Slip Test
Nov 26- Dec 3, 2024 (Day Order 1 to 6)	I	1.3 Fitting of Binomial Distribution 1.4 Normal Distribution	K1-K5	5	CO1-5	Problem Solving and Group Work	Quiz and Slip Test
Dec 4-11, 2024 (Day Order 1 to 6)	I / II	1.4 Normal Distribution 1.5 Characteristics of the Normal Curve **Tests of Significance** 2.1 Testing of Hypothesis	K1-K5	5	CO1-5	Problem Solving and Group Work	Quiz and Slip Test
Dec 12-19, 2024 (Day Order 1 to 6)	II	2.2 Tests of Significance for Attributes 2.3 Tests of Significance for Large Samples	K1-K5	5	CO1-5	Problem Solving and Group Work	Quiz and Slip Test
Dec 20, 2024 (Day Order 1)	No class						
Jan 3 – 7, 2025 (Day Order 3 to 6)	II	2.3 Tests of Significance for Large Samples 2.4 Tests of Significance	K1-K5	4	CO1-5	Problem Solving and Group Work	Quiz and Slip Test

		for Difference between Means of two Samples					
Jan 8 – 17, 2024 (Day Order 1 to 6)	II	2.4 Tests of Significance for Difference between Means of two Samples	K1-K5	5	CO1-5	Problem Solving and Group Work	Quiz and Slip Test
	III	**Chi-Square Test** 3.1 Characteristics and Assumptions					
Jan 18 - 23, 2025	**C.A. Test – I- Unit I and Unit 2**						
Jan 24 -31, 2025 (Day Order 1 to 6)	III	3.1 Characteristics and Assumptions 3.2 Goodness of Fit	K1-K5	5	CO1-5	Problem Solving and Group Work	**III Component (Part I- 25 marks - Problems from Unit III**)
Feb 3-8, 2025 (Day Order 1 to 6)	III	3.2 Goodness of Fit 3.3 Test of Independence	K1-K5	5	CO1-5	Problem Solving and Group Work	Quiz and Slip Test
Feb 10– 18, 2025 (Day Order 1 to 4)	III IV	3.3 Test of Independence **Correlation and Regression** 4.1 Correlation and Causation 4.2 Types of Correlation	K1-K5	3	CO1-5	Problem Solving and Group Work	Quiz and Slip Test
Feb 19- 26, 2025	IV	4.3 Karl Pearson's Coefficient of	K1-K5	5	CO1-5	Problem Solving and Group Work	Quiz and Slip Test

(Day Order 1-6)		Correlation 4.4 Correlation of Grouped Bi-variate Data 4.5 Regression					
Feb 27- Mar 6, 2025 (Day Order 1 to 6)	IV	4.6 Difference between Correlation and Regression 4.7 Methods of Studying Regression – Algebraic Method	K1-K5	5	CO1-5	Problem Solving and Group Work	Quiz
Mar 7 – 11, 2025 (Day Order 1 to 3)	IV V	4.7 Methods of Studying Regression – Algebraic Method **Analysis of Variance** 5.1 Basic Designs of Experiment 5.2 One Way Classification	K1-K5	2	CO1-5	Problem Solving and Group Work	Quiz **III Component Part II- 25 marks - Problems from Unit V**
Mar 12 –17, 2025	**C.A. Test – II(Unit 3 and Unit 4)**						
Mar 18 – 20, 2025 (Day 4 to 6)	IV	5.2 One Way Classification 5.3 Two Way Classification	K1-K5	3	CO1-5	Problem Solving and Group Work	Quiz
Mar 21 - 28, 2025 (Day Order 1 to 6)	V	5.2 One Way Classification 5.3 Two Way Classification	K1-K5	5	CO1-5	Problem Solving and Group Work	Quiz

Mar 29- April 2, 2025 (Day Order 1 to 3)	**REVISION**

.