

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

COURSE PLAN (June - November 2026)

Department : Mathematics

Name/s of the Faculty : Dr. Amalore Arumica

Course Title : Discrete Mathematics for Computer Science (Section B)

Course Code : 25MT/ME/MS13

Shift : II

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	recall fundamental mathematical concepts and principles essential for problem-solving	K1
CO2	describe the relationships between mathematical structures and their role in logical reasoning	K2
CO3	utilize mathematical techniques to model and solve computational problems	K3
CO4	investigate mathematical patterns and structures to develop logical solutions	K4
CO5	critically assess mathematical arguments, proofs, and computational methods for accuracy and efficiency	K5

Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 22, 2026 (Day Order 6)	1	Matrices 1.1 Types of matrices	K1-K5	1	CO1-5	Lecture and Group Discussion Learning by Doing Problems	Assignments

Aug 4 - 6, 2026 (Day Order 4 - 6)	2	Theory of Equations 2.6 Types of functions	K1-K5	2	CO1-5	Lecture and Group Discussion Learning by Doing Problems	Component Test I - MCQ Test (15 Marks) [Section 2.6]
Aug 7 – 14, 2026 (Day Order 1- 6)	2 3	Theory of Equations 2.6 Types of functions Recurrence Relations 3.1 Recursive definition of a polynomial	K1-K5	4	CO1-5	Lecture and Group Discussion Learning by Doing Problems	Quiz
Aug 17 - 24, 2026 (Day Order 1- 6)	3	Recurrence Relations 3.2 Solution of a finite order homogeneous relations	K1-K5	4	CO1-5	Lecture, Group Discussion and Presentations Learning by Doing Problems	Assignments
Aug 25 – Sep 2, 2026 (Day Order 1- 6)	3 4	Recurrence Relations 3.3 Algorithm for solving nth order homogeneous recurrence relation Propositional Calculus 4.1 Propositions - types	K1-K5	4	CO1-5	Lecture and Group Discussion Learning by Doing Problems	Component Test – II – Problem solving assignment (10 marks) [Section 3.3]
Sep 3 – 11, 2026 (Day Order 1- 6)	4	Propositional Calculus 4.1 Propositions - types 4.2 Connectives	K1-K5	4	CO1-5	Lecture and Group Discussion Learning by Doing Problems	Presentations

