

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

COURSE PLAN (June - November 2026)

Department : Mathematics
Name/s of the Faculty : Dr. Sindiya Therese S
Course Title : FOUNDATION IN MATHEMATICS
Course Code : 25MT/SE/FM12
Shift : I

COURSE OUTCOMES (COs)

Cos	Description						CL
CO1	recall the Binomial Theorem and counting principles to solve algebraic and combinatorial problems						1
CO2	explain the trigonometric identities and inverse functions and solve trigonometric equations						2
CO3	apply differentiate and integrate functions in fundamental calculus to solve practical problems						3
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 22, 2026 (Day Order 6)	I	Algebra 1.1 Binomial theorem	1-3	1	1-3	Problem solving, group discussions, assignments	Questioning & slip test
Jun 23 – July 1, 2026	I	Algebra 1.2 General term and middle term	1-3	2	1-3	Problem solving, group discussions, assignments	Questioning & slip test

(Day Order 1- 6)							
July 2 – July 8, 2026 (Day Order 1- 6)	I	Algebra 1.3 Problems based on these concepts Progressions	1-3	2	1-3	Problem solving, group discussions, assignments	Questioning & slip test
July 9 – 16, 2026 (Day Order 1- 6)	I	Algebra 1.4 Fundamental principle of counting	1-3	2	1-3	Problem solving, group discussions, assignments	Questioning & slip test
July 17 – 24, 2026 (Day Order 1- 6)	I	Algebra 1.5 Factorial notations	1-3	2	1-3	Problem solving, group discussions, assignments	Questioning & slip test
Aug 4 - 6, 2026 (Day Order 4 - 6)	II	Permutations and Combinations 2.1 Derivation of formulae and their connections 2.2 Simple applications	1-3	1	1-3	Problem solving, group discussions, assignments	Questioning & slip test
Aug 4 - 6, 2026 (Day Order 4 - 6)	C.A. Test – I (NA)						
Aug 4 - 6, 2026 (Day Order 4 - 6)	II	Permutations and Combinations 2.3 Combinations with repetitions	1-3	1	1-3	Problem solving, group discussions, assignments	Questioning & slip test
Aug 7 – 14, 2026 (Day Order 1- 6)	II	Permutations and Combinations 2.4 Arrangements with groups 2.5 Formation of groups	1-3	2	1-3	Problem solving, group discussions, assignments	III Component part 1 – 20 marks – MCQ – Unit I & II
Aug 17 - 24, 2026 (Day Order 1- 6)	II	Trigonometry 2.6 Introduction to trigonometric ratios 2.7 Trigonometric formulae (sum and product)	1-3	2	1-3	Problem solving, group discussions, assignments	Questioning & slip test

