

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**COURSE PLAN (June - November 2026)**

Department : Mathematics
Name of the Faculty : Dr. Rini Angeline Sahayamary A
Course Title : BRIDGE MATHEMATICS
Course Code : 25MC/SE/BM12
Shift : II

COURSE OUTCOMES (COs)

COs	Description						CL
CO1	recall the Binomial Theorem and counting principles to solve algebraic and combinatorial problems						K1
CO2	explain the trigonometric identities and inverse functions and solve trigonometric equations						K2
CO3	apply differentiate and integrate functions in fundamental calculus to solve practical problems						K3
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 15 – 22, 2026 (Day Order 1- 6)	1	Algebra 1.1 Binomial Theorem 1.2 General Term and Middle Term	K1-K3	2	CO1-3	Lecture	Questioning

Jun 23 – July 1, 2026 (Day Order 1- 6)	1	Algebra 1.2 General Term and Middle Term 1.3 Problems based on these concepts	K1-K3	2	CO1-3	Learning by Doing Problems	Slip Test
July 2 – July 8, 2026 (Day Order 1- 6)	1	Algebra 1.3 Problems based on these concepts Progressions 1.4 Fundamental Principle of Counting	K1-K3	2	CO1-3	Lecture and Group Discussion	Component Test -1 Unit 1- MCQ (10 marks)
July 9 – 16, 2026 (Day Order 1- 6)	1	Progressions 1.4 Fundamental Principle of Counting 1.5 Factorial notations	K1-K3	2	CO1-3	Learning by Doing Problems	Problem Solving
July 17 – 24, 2026 (Day Order 1- 6)	2	Permutations and Combinations 2.1 Derivation of formulae and their connections 2.2 Simple Applications	K1-K3	2	CO1-3	Learning by Doing Problems	Problem solving
July 25 – 28, 2026 (Day Order 1- 3)	2	Permutations and Combinations 2.3 Combinations with repetitions	K1-K3	1	CO1-3	Lecture and Group Discussion	Problem solving
July 29 – Aug 3, 2026							
Aug 4 - 6, 2026 (Day Order 4 - 6)	2	Permutations and Combinations 2.4 Arrangements with groups	K1-K3	1	CO1-3	Lecture and Group Discussion	Questioning

Sep 24 - 28, 2026 (Day Order 4 – 6)	3	Calculus 3.5 Applications of Derivatives	K1-K3	1	CO1-3	Lecture, Group Discussion	Questioning
Sep 29 – Oct 7, 2026 (Day Order 1 - 6)	3	Calculus 3.6 Integration 3.7 Product rule in Integration	K1-K3	2	CO1-3	Lecture, Group Discussion and Presentations	Component Project & Presentation Unit 3 (20 marks)
Oct 8 - 14, 2026 (Day Order 1 - 6)	3	Calculus 3.7 Product rule in Integration 3.8 Substitution method in Integration	K1-K3	2	CO1-3	Lecture, Group Discussion and Presentations	Questioning & Problem Solving
Oct 15 - 17, 2026 (Day Order 1- 3)	REVISION						