

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**Course Schedule: November 2024 – April 2025**

Department : Mathematics
Name/s of the Faculty : Dr. A. S. Shanthi
Course Title : BASIC MATHEMATICS
Course Code : 19MT/GE/BM22
Shift : I

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov 18 – 25, 2024 (Day Order 1-6)	Unit 1: Matrices 1.1 Matrices- Elementary Concepts	Lecture & Problem Solving	Manicavachgam Pillay, T.K., T. Natarajan, and K.S. Ganapathy. Algebra Vol. II. Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2006.	Questioning
Nov 26- Dec 3, 2024 (Day Order 1 to 6)	1.2 Evaluation of Determinant of a square matrix	Lecture & Problem Solving	Manicavachgam Pillay, T.K., T. Natarajan, and K.S. Ganapathy. Algebra Vol. II. Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2006.	Quiz
Dec 4-11, 2024 (Day Order 1 to 6)	1.3 Types of Matrices- Sum and product of Matrices	Lecture & Problem Solving	Manicavachgam Pillay, T.K., T. Natarajan, and K.S. Ganapathy. Algebra Vol. II. Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2006.	Slip Test
Dec 12-19, 2024 (Day Order 1 to 6)	1.4 Inverse of a square matrix of order 2 and order 3 1.5 Rank of Matrix	Lecture & Problem Solving	Manicavachgam Pillay, T.K., T. Natarajan, and K.S. Ganapathy. Algebra Vol. II. Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2006.	Questioning
Dec 20, 2024 (Day Order 1)	-	-	-	-

Jan 3 – 7, 2025 (Day Order 3 to 6)	Unit 2: Theory of Equations 2.1 Relation between roots and coefficients	Lecture & Problem Solving	Manicavachgam Pillay, T.K., T. Natarajan, and K.S. Ganapathy. Algebra Vol. I. Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2006.	Quiz
Jan 8 – 17, 2024 (Day Order 1 to 6)	2.2 Solution of equations under simple given conditions	Lecture & Problem Solving	Manicavachgam Pillay, T.K., T. Natarajan, and K.S. Ganapathy. Algebra Vol. I. Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2006.	Slip Test
Jan 18 - 23, 2025	C.A. Test – I			
Jan 24 - 30, 2025 (Day Order 1 to 6)	2.3 Formation and solution of equations with imaginary and surd roots	Lecture & Problem Solving	Manicavachgam Pillay, T.K., T. Natarajan, and K.S. Ganapathy. Algebra Vol. I. Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2006.	Component Test I (10 marks) Problem Solving Unit: 2
Feb 3-8, 2025 (Day Order 1 to 6)	Unit 3: Differential and Integral Calculus 3.1 Differential coefficient of with respect to - rules for differentiation	Lecture & Problem Solving	Narayanan S., R. Hanumantha Rao, T.K. Manicavachgam Pillay, and P. Kandaswamy. Ancillary Mathematics Vol. I Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2007.	Questioning
Feb 10– 18, 2025 (Day Order 1 to 4)	-	-	-	C. A. test (25 marks) Unit : 1
Feb 19- 26, 2025 (Day Order 1-6)	3.2 Differential coefficient of standard functions	Lecture & Problem Solving	Narayanan S., R. Hanumantha Rao, T.K. Manicavachgam Pillay, and P. Kandaswamy. Ancillary Mathematics Vol. I Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2007.	Quiz

Feb 27- Mar 6, 2025 (Day Order 1 to 6)	3.3 Integration as the inverse process of differentiation	Lecture & Problem Solving	Narayanan S., and T.K. Manicavachgam Pillay, Ancillary Mathematics: Book II. Chennai: S. Vishwanthan printers and publishers Pvt. Ltd., 2004	Slip Test
Mar 7 – 11, 2025 (Day Order 1 to 3)	-	-	-	-
Mar 12 –17, 2025	C.A. Test – II			
Mar 18 – 20, 2025 (Day 4 to 6)	3.4 Integration of standard functions	Lecture & Problem Solving	Narayanan S., and T.K. Manicavachgam Pillay, Ancillary Mathematics: Book II. Chennai: S. Vishwanthan printers and publishers Pvt. Ltd., 2004	Questioning
Mar 21 - 28, 2025 (Day Order 1 to 6)	3.4 Integration of standard functions	Lecture & Problem Solving	Narayanan S., and T.K. Manicavachgam Pillay, Ancillary Mathematics: Book II. Chennai: S. Vishwanthan printers and publishers Pvt. Ltd., 2004	Component Test II (15 marks) Assignment Unit: 3
Mar 29- April 3, 2025 (Day Order 1 to 3)	-	-	-	-
	REVISION			