

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

Department : Mathematics
Name of the Faculty : Dr. Rini Angeline Sahayamary A
Course Title : FINANCIAL MATHEMATICS
Course Code : 25MC/SE/FM32
Shift : II

COURSE OUTCOMES (COs)

COs	Description						CL
CO1	calculate and interpret present value, future value, and annuities in real- world financial scenarios						K1
CO2	assess and value bonds and stocks, using price-yield relationships and performance metrics						K2
CO3	model stock prices and options using advanced pricing models and develop effective investment strategies						K3
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 15 – 22, 2026 (Day Order 1- 6)	1	Time Value of Money: Simple & Compound Interest, Present Value & Future Value	K1-K3	2	CO1-3	Lecture	Questioning

Aug 4 - 6, 2026 (Day Order 4 - 6)	3	Stocks: Common Stock Valuation	K1-K3	1	CO1-3	Lecture and Group Discussion	Questioning
Aug 7 – 14, 2026 (Day Order 1- 6)	3	Stocks: Preferred Stock Valuation	K1-K3	2	CO1-3	Lecture and Group Discussion Learning by Doing Problems	Problem Solving
Aug 17 - 24, 2026 (Day Order 1- 6)	3	Stocks: Stock Price Validity	K1-K3	2	CO1-3	Lecture and Learning by Doing Problems	Component Assignment unit 2&3 (20 marks)
Aug 25 – Sep 2, 2026 (Day Order 1- 6)	4	Stock Price Models: Geometric Brownian Motion	K1-K3	2	CO1-3	Lecture and Group Discussion	Questioning
Sep 3 – 11, 2026 (Day Order 1- 6)	4	Stock Price Models: Geometric Brownian Motion, Binomial Tree	K1-K3	2	CO1-3	Lecture and Group Discussion Learning by Doing Problems	Problem Solving
Sep 15-17, 2026 (Day Order 1 - 3)	4	Stock Price Models: Binomial Tree	K1-K3	1	CO1-3	Lecture, Group Discussion and Presentations Learning by Doing Problems	Questioning & Problem Solving

Sep 18 –23, 2026							
Sep 24 - 28, 2026 (Day Order 4 – 6)	5	Options: Option Basics	K1-K3	1	CO1-3	Lecture, Group Discussion	Questioning
Sep 29 – Oct 7, 2026 (Day Order 1 - 6)	5	Options: Option Pricing Models	K1-K3	2	CO1-3	Lecture, Group Discussion and Presentations	Component Project & Presentation Unit 4&5 (20 marks)
Oct 8 - 14, 2026 (Day Order 1 - 6)	5	Options: Option Trading Strategies	K1-K3	2	CO1-3	Lecture, Group Discussion and Presentations	Questioning & Problem Solving
Oct 15 - 17, 2026 (Day Order 1- 3)	REVISION						