		STELLA MARIS COLLEG	E (AUTONO	MOUS), CI	HENNAI		
		COURSE PLAN (November 20	24 – April 2	2025)		
Department		: Mathematics					
Name of the Facult	y	: Dr. V. Jude Annie Cynthia					
Course Title : Discrete Mathematics							
Course Code		: 23MT/MC/DM43					
Shift		: I					
		COUR	SE OUTCON	IES (COs)			
COs		CL					
CO1	acquire t	K1					
CO2	recogniz	K2					
CO3	demonstrate the characterization of propositional calculus, lattices, Boolean functions and automata						
CO4	interpret	K4					
CO5	assess th	К5					
Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Nov 18 – 25, 2024 (Day Order 1-6)	1	Logic and Propositional Calculus	K1-K5	4	CO1-5	Lecture, Discussions and Problem Solving	Questioning & Slip Test
	2	1.1 Logical Equivalence1.2 Algebra of PropositionsLattices					
		2.1 Lattice					

Nov 26- Dec 3, 2024 (Day Order 1 to 6)	1	Logic and Propositional Calculus 1.3 Arguments 1.4 Logical Implication Lattices 2.2 Properties of lattices	K1-K5	4	CO1-5	Lecture, Discussions and Problem Solving	Questioning
Dec 4-11, 2024 (Day Order 1 to 6)	1	Logic and Propositional Calculus 1.5 Propositional Functions, Quantifiers Lattices 2.2 Properties of lattices	K1-K5	4	CO1-5	Lecture, Discussions and Problem Solving	Questioning
Dec 12-19, 2024 (Day Order 1 to 6)	2	Logic and Propositional Calculus 1.6 Negation of Quantified Statements 1.7 Normal Forms Lattices 2.3 Lattices as Algebraic System	K1-K5	4	CO1-5	Lecture, Discussions and Problem Solving	III Component-1 Quiz (15 marks)
Dec 20, 2024	2	Logic and Propositional Calculus	K1-K5	1	CO1-5	Lecture, Discussions and Problem Solving	Questioning

(Day Order 1)		1.7 Normal Forms							
Jan 3 – 7, 2025 (Day Order 3 to 6)	2	Logic and Propositional Calculus 1.8 Normal Forms Lattices	K1-K5	3	CO1-5	Lecture, Discussions and Problem Solving	Questioning		
		2.4 Bounded, Complemented and Distributive lattices.							
Jan 8 – 17, 2024 (Day Order 1 to 6)	2	Lattices 2.4 Bounded, Complemented and Distributive lattices (contd.) Finite State Automata 4.1 Finite state machines	K1-K5	4	CO1-5	Lecture, Discussions and Problem Solving	Questioning & Slip Test		
Jan 18 - 23, 2025	C.A. Test - I (UNIT 1 & 2)								
Jan 24 -31, 2025 (Day Order 1 to 6)	3	 Boolean Algebra 3.1 Basic properties of Boolean algebra Finite State Automata 4.2 Finite state automata 	K1-K5	4	CO1-5	Lecture, Discussions and Problem Solving	Questioning		
Feb 3-8, 2025 (Day Order 1 to 6)	3	 Boolean Algebra 3.2 Representation Theorem Finite State Automata 4.2 Finite state automata 	K1-K5	4	CO1-5	Lecture, Discussions and Problem Solving	Questioning		

Feb 10– 18, 2025 (Day Order 1 to 4)	3	Boolean Algebra 3.3 Boolean Expressions Finite State Automata 4.4 Equivalence of DFSA and NDFSA	K1-K5	3	CO1-5	Lecture, Discussions and Problem Solving	Questioning
Feb 19- 26, 2025 (Day Order 1-6)	3 5	Boolean Algebra 3.5 Boolean function Languages and Grammars 5.1 Languages and Regular expressions	K1-K5	4	CO1-5	Interactive Teaching & Problem Solving	Questioning & Slip Test
Feb 27- Mar 6, 2025 (Day Order 1 to 6)	3 5	Boolean Algebra 3.5 Boolean function Languages and Grammars 5.1 Languages and Regular expressions	K1-K5	4	CO1-5	Interactive Teaching & Problem Solving	III Component-2 Test (20 marks)
Mar 7 – 11, 2025 (Day Order 1 to 3)	5	Languages and Grammars 5.2 Languages determined by FSA	K1-K5	2	CO1-5	Interactive Teaching & Problem Solving	Questioning
Mar 12 –17, 2025			C.A. Tes	t - II (UNIT	3 & 4)		
Mar 18 – 20, 2025 (Day 4 to 6)	5	Languages and Grammars 5.3 Grammars	K1-K5	2	CO1-5	Interactive Teaching & Problem Solving	Questioning & Slip Test
Mar 21 - 28, 2025 (Day Order 1 to 6)	5	Languages and Grammars 5.4 Derivation trees for context free grammar	K1-K5	4	CO1-5	Interactive Teaching & Problem Solving	III Component-3 Assignment (15 marks)

Mar 29- April 2,	REVISION							
2025								
(Day Order 1 to 3)								