		STELLA MARIS COLLEGE	(AUTONO	MOUS), CH	IENNAI		
		COURSE PLAN (No	ovember 20	24 – April 2	025)		
Department		: Mathematics					
Name of the Faculty : Dr. Benazir Obilia.X. A							
Course Title : Discrete Mathematics							
Course Code : 23MT/MC/DM43							
Shift		: П					
		COURSI	E 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	K5					
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
() (1001 1 0)		1.1 Logical Equivalence1.2 Algebra of Propositions1.3 Arguments					

Nov 26- Dec 3, 2024 (Day Order 1 to 6)	1	Logic and Propositional Calculus 1.4 Logical Implication 1.5 Propositional Functions, Quantifiers	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 1.6 Negation of Quantified Statements 1.7 Normal Forms	K1-K5	4	CO1-5	Lecture, Discussions and Problem Solving	Questioning
Dec 12-19, 2024 (Day Order 1 to 6)	2	Lattices 2.1 Lattice 2.2 Properties of lattices	K1-K5	4	CO1-5	Lecture, Discussions and Problem Solving	Questioning & III Component-1 MCQ Test Section 1.1, 1.3-1.6 [15 marks]
Dec 20, 2024 (Day Order 1)	2	Lattices2.3 Lattices as Algebraic System.	K1-K5	1	CO1-5	Lecture, Discussions and Problem Solving	Questioning
Jan 3 – 7, 2025 (Day Order 3 to 6)	2	Lattices 2.4 Bounded, Complemented and Distributive lattices.	K1-K5	3	CO1-5	Lecture, Discussions and Problem Solving	Questioning
Jan 8 – 17, 2024 (Day Order 1 to 6)	2 3	Lattices 2.4 Bounded, Complemented and Distributive lattices (contd.) Boolean Algebra 3.1 Basic properties of Boolean algebra	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 3.2 Representation Theorem 3.3 Boolean Expressions	K1-K5	4	CO1-5	Lecture, Discussions and Problem Solving	Questioning		
Feb 3-8, 2025 (Day Order 1 to 6)	3	Boolean Algebra 3.4 Logic gates and circuits 3.5 Boolean function	K1-K5	4	CO1-5	Lecture, Discussions and Problem Solving	Questioning		
Feb 10– 18, 2025 (Day Order 1 to 4)	4	Finite State Automata 4.1 Finite state machines	K1-K5	3	CO1-5	Lecture, Discussions and Problem Solving	Questioning		
Feb 19- 26, 2025 (Day Order 1-6)	4	Finite State Automata 4.2 Finite state automata 4.3 Non-deterministic finite state automaton	K1-K5	4	CO1-5	Interactive Teaching & Problem Solving	Questioning & Slip Test		
Feb 27- Mar 6, 2025 (Day Order 1 to 6)	4	Finite State Automata 4.4 Equivalence of DFSA and NDFSA Languages and Grammars 5.1Languages and Regular expressions.	K1-K5	4	CO1-5	Interactive Teaching & Problem Solving	III Component-2 Assignment Sections 4.2 & 4.4 [10 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. Test - 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		

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 Test Sections 5.1-5.3 [25 marks]		
Mar 29- April 2,		REVISION							
2025									
(Day Order 1 to 3)									

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