L J Institute of Engineering and Technology, Ahmedabad

Theory Test (T1,T2,T3,T4) Details_SEM-IV_2025_ COMPUTER ENGINEERING/INFORMATION TECHNOLOGY STUDENTS

Subject Code Sub	Subject	Test	Syllabus			Marks Weightage					Total Duration Max.
					% of Syllabus	% of Syllabus	Formulas and			Total Marks	1.5 Hr
			Unit No	Unit Title	70 01 33 1110 113	MCQ	Theory Descriptive	Derivation	Numerical	1 otal Marks	Min. 1 Hr
			1	Set Theory	8.0%						
		T1	2	Functions and Counting	9.0%	5	0	0	20	25	1.25
			3	Propositional Logic	10.0%						
117013491(CE),		T1 Test Syllabus:			27%		T1 Test I				
117023491(IT),			4	Propositional and Predicate Logic	8.0%						
117033491(CSD),		T2	5	Recurrence Relations	7.0%	5	0	0	20	25	1.25
117043491(AIML),			6	Relations	11.0%						
117053491(AIDS), 117063491(RAI)	screte Mathematics			T2 Test Syllabus:	26%		T2 Test !	Marks: 25			
117123491(CSE),		Т3	7	Partial Ordering	13.0%	- 5	0	0	20	25	1.25
117123491(CSE), 117133491(CST),		13	8	Algebraic Structures	11.0%			0 20	23	1.23	
117143491(CSIT),			T3 Test Syllabus: 24%				T3 Test !	Marks: 25			
117153491(CEA)		T4	9	Graph Theory	12.0%	- 5	0	0	20	25	1.25
			10	Network Flows and Trees	11.0%						
		T4 Test Syllabus:			23%		T4 Test !				
		Total T1 to T4 Tests :			100%	20	0	0	80	100	
	Subject	Test	Syllabus				Marks V	eightage			Total
Subject Code Sub			Unit No	Unit Title	% of Syllabus	MCQ	Theory Descriptive(Mainly Programming)	Formulas and Derivation	Numerical	Total Marks	Duration Max. 1.5 Hr Min. 1 Hr
		T1	1	JSON(Javascript Object Notation)	5.0%	10	15	0	0	25	1.25
			2	Node JS-1	15.0%						
			3	Node JS-2	10.0%						
	Full Stack Development -2			T1 Test Syllabus:	30%		T1 Test !	Marks: 25			
017013492(CE), 017023492(IT),		Т2	4	Express JS-1	10.0%	10	15	0	0	25	1.25
017023492(11), 017033492(CSD),			5	Express JS-2	10.0%						
017043492(AIML),											
017053492(AIDS)		T2 Test Syllabus:			20%	T2 Test Marks: 25					
01/063492(RAI),		Development -2	6	React JS-1	15.0%	10	15	0	0	25	1.25
017123492(CSE),			7	React JS-2	10.0%			0	0	25	1.25
017133492(CST), 017143492(CSIT),		T3 Test Syllabus:			25%		T3 Test !	Marks: 25			
017143492(CS11), 017153492(CEA)			8	Git	5.0%						
01/1331/2(02/11)		T4	9	MongoDB-1	10.0% 10	15	0	0	25	1	
			10	MongoDB-2	10.0%						
				T4 Test Syllabus:	25%		T4 Test Marks: 25				
	[Total T1 to T4 Tests :	100%	40	60	0	0	100	

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Subject Code	Subject	Test	Syllabus				Marks Weightage				Total Duration Max.
			Unit No	Unit Title	% of Syllabus	MCQ	Theory Descriptive (Logical and Programming)	Formulas and Derivation	Numerical	Total Marks	Min. 1 Hr
			1	Data Representation	2.0%	_					
		T1	2	Register Transfer and microoperations	10.0%	10	5	0	10	25	1.25
			3 Basic Computer Organization		12.0%						
017013493(CE), 017023493(IT), 017033493(CSD), 017043493(AIML), 017053493(AIDS), 017063493(RAI), 017123493(CSE),		T1 Test Syllabus:			24.0%		T1 Test				
			4	Basic Computer Design	8.0%	1				25	
		T2	5	Programming the basic computer	18.0%	10	5	0	10		1.25
				T2 Test Syllabus:	26.0%		T2 Test	Market 25			
	Computer Organization		6	Central Processing Unit	12.0%		T2 Test Marks: 25		1		
	and Architecture	Т3	7	Pipeline Processing	10.0%	10	0	0	15	25	1.25
		13	8	Computer Arithmetic	5.0%			0			
017133493(CST), 017143493(CSIT),			8	T3 Test Syllabus:	27%		T3 Test	Marks: 25			
017153493(CEA)		Т4	9	Memory Organization	14.0%	15	5	0	5	25	
017133473(CE21)			10	Input-Output Organization	9.0%						1.00
			-								1.00
		T4 Test Syllabus:			23.0%		T4 Test	Marks: 25	•		
		Total T1 to T4 Tests :			100%	45	15	0	40	100	
Subject Code	Subject	Test		Syllabus			Marks V	Marks Weightage			Total Duration Max.
			Unit No	Unit Title	% of Syllabus	MCQ	Theory Descriptive (Mainly Programming)	Formulas and Derivation	Numerical	Total Marks	1.5 Hr Min. 1 Hr
			1	Introduction	2%	7	7 0	0	18	25	1.25
		T1	2	Regular Expressions and Languages	5%						
			3	Finite Automata 1	9%	1 ′					
0.150.10.10.1/075			4	Finite Automata 2	11%	1					
017013494(CE), 017023494(IT),				T1 Test Syllabus:	27%		T1 Test 1	Marks: 25			
017033494(CSD),		T2	5	Deterministic Finite Automata & Non - Deterministic Finite Automata	12%	7	0	0	18	25	1.25
017043494(AIML), 017053494(AIDS), 017063494(RAD)	Theory of Computation	""	6	Operations on Finite Automata	11%	† ′ I "				23	
		T2 Test Syllabus:			23%		T2 Test				
		T2	7	Context Free Grammar and Languages	17%	8	0	0	17	25	1.25
017063494(RAI), 017123494(CSE),		TO	,			7 8			17	25	1.25
017063494(RAI), 017123494(CSE), 017133494(CST),		Т3	8	Push down Automata	13%						
017063494(RAI), 017123494(CSE), 017133494(CST), 017143494(CSIT),		Т3	8	Push down Automata T3 Test Syllabus:	13% 30%		T3 Test	Marks: 25			
017063494(RAI), 017123494(CSE), 017133494(CST),			8			0		1	17	25	1.25
017063494(RAI), 017123494(CSE), 017133494(CST), 017143494(CSIT),		T3		T3 Test Syllabus:	30%	- 8	T3 Test	Marks: 25 0	17	25	1.25
017063494(RAI), 017123494(CSE), 017133494(CST), 017143494(CSIT),			9	T3 Test Syllabus: Turing Machine	30% 13%	- 8	0	1	17	25	1.25

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	Test		Syllabus		Marks W	Total Marks	Total Duration Max.						
		Unit No	Unit Title	% of Syllabus	MCQ	Theory Descriptive	Formulas and	Numerical	1 Otal Mai Ks	1.5 Hr			
	T1	1	Python Pandas	13%		15	0	0	25				
		2	Data Visualization with Python	7%	10					2.25			
		3	Regular Expressions and Multi-threading	5%									
	T1 Test Syllabus:			25%	T1 Test Marks: 25								
		4	Introduction to Machine Learning with Python	3%									

	Fundamentals of Computer Science using Python - II		1	Pytnon Pandas	13%		15	0	0	25	
		T1	2	Data Visualization with Python	7%	10					2.25
			3	Regular Expressions and Multi-threading	5%	i '					
117012491(CE),		T1 Test Syllabus:			25%						
117022491(IT),			4	Introduction to Machine Learning with Python	3%		15			25	
117032491(CSD),		T2	5	Regression - Model Training and Evaluation	11%	10		0	0		2.25
117042491(AIML), 117052491(AIDS),			6	Classification -Model Training and Evaluation	11%						
117052491(AIDS), 117062491(RAI),				T2 Test Syllabus:	25%						
117122491(CSE),		T3	7	Introduction to Deep Learning	10%	10	15	0	0	25	2.25
117132491(CST),			8	Web Programming using Python	15%						2.23
117142491(CSIT), 117152491(CEA)		T4		T3 Test Syllabus:	25%	T3 Test Marks: 25					
			9	Getting Started with Django Framework	13%	10	15	0	0	25	2.25
			10	Django Models and Users	12%	10					2.23
		T4 Test Syllabus:		25%		T4 Test Marks: 25					
				Total T1 to T4 Tests :	100%	40	60	0	0	100	
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Subject Code

Subject