O.P.Code: 20EC0454

R20

H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech. IV Year I Semester Regular & Supplementary Examinations October/November-2025 MATLAB PROGRAMMING

Times 2 Harres	(Open Elective – IV)			
Time: 3 Hours		Max.	Mar	ks: 60
4.7	(Answer all Five Units 5 x 12 = 60 Marks) UNIT-I	¥	î) } *
1 a Use MATLA	AB to Interpret the roots of the polynomial 290-11x $+6x^2+x^3$.	CO ₂	L3	6M
b Illustrate the	MATLAB plotting commands with examples. OR	CO3	L4	6M
2 List the difference on MA	erent ways that you can get help in MATLAB. Write brief TLAB help system.	CO3	L1	12M
	UNIT-II	7 3	ùe.	8 X
3 a Explain how b Write Elemen	Array addressing is done in MATLAB with examples. nt-by-Element operation on Element-by-Element Division. OR	CO3 CO1	L3 L5	6M 6M
4 Describe ab functions wi (ii) Ones ().		C01	L1	12M
5 a Digayas abov	UNIT-III			
mathematical	t Exponential and Logarithmic Functions in elementary function with appropriate commands.		L2	6M
handled by M	Trigonometric Functions and Hyperbolic Functions are ATLAB. Give some examples. OR	CO2	L2	6M
6 a How Multiple	e-Input Arguments are handled in Anonymous Functions.	CO2	L1	6M
b Briefly explai	n importing wizard and excel data files in MATLAB.	CO ₅	L5	6M
9 0	UNIT-IV	000	LJ	OIVI
7 a Infer about Co	onditional Operations with suitable example.	CO5	L2	6M
b Explain "for l	oop" Statement in MATLAB With suitable example.	CO3	L5	6M
	OR		20	01/1
suitable Exam		8	L1 .	6M
b How to plot example.	Three-Dimensional functions in MATLAB with suitable	CO2	L2	6M
0	UNIT-V		8	
9 a Solve the follo	owing equations, using the matrix inverse method.	CO1	L3	6M
	$2x_1 + 9x_2 = 5$	0		
	$3x_1 - 4x_2 = 7$		š .	- ×
4	Cramer's Rule performed in MATLAB? with an example. OR	CO1	L5	6M
10 a Discuss about algebra technic	nt computational difficulties using theoretical linear ques.	CO5	L2	6M
b Discuss in brie	f about:	CO4	L2	6M
i) Under deterr	nined system ii) over determined system. *** END ***	7		VAVE