

LESSONPLAN-2022-2023

DISCIPLINE:ETC	SEMESTER:6TH	NAMEOFTHETEACHINGFACULTY:SRI SATYANARAYAN PANIGRAHI
SUBJECT:MATLAB AND PROCESSING SIMULATION LAB	NO.OFDAYS/PERWEEK CLASSALLOTTED:3	SEMESTERFROMDATE: 14/02/2023 TO DATE:23/5/2023 NO.OFWEEKS:15
WEEK	CLASSDAY	PRACTICALTOPICS
1ST	1ST	STUDY ABOUT MATLAB
	2ND	
	3RD	
2ND	1ST	TO REPRESENT BASIC SIGNALS LIKE:UNIT IMPULSE,RAMP,UNIT STEP,EXPONENTIAL
	2ND	
	3RD	
3RD	1ST	TO PERFORM AUTO CORRELATION AND CROSS CORRELATION BETWEEN TWO VECTORS USING MATLAB.
	2ND	
	3RD	
4TH	1ST	TO COMPUTE DFT & IDFT OF A GIVEN SEQUENCE USING MATLAB.
	2ND	
	3RD	
5TH	1ST	TO PERFORM CONVOLUTION BETWEEN TWO VECTORS USING MATLAB.
	2ND	
	3RD	
6TH	1ST	A PROGRAM TO SUBTRACT TWO 16 BIT NUMBERS.
	2ND	
	3RD	
7TH	1ST	A PROGRAM TO MULTIPLY TWO 16 BIT NUMBERS.
	2ND	
	3RD	
8TH	1ST	TO REPRESENT COMPLEX EXPONENTIAL AS A FUNCTION OF REAL & IMAGINARY PART.
	2ND	
	3RD	
9TH	1ST	TO PERFORM LINEAR CONVOLUTION OF TWO SEQUENCE USING DFT USING MATLAB.
	2ND	
	3RD	
10TH	1ST	TO DETERMINE Z-TRANSFORM FROM THE GIVEN TRANSFER FUNCTION AND ITS ROC USING MATLAB.
	2ND	
	3RD	
11TH	1ST	TO DETERMINE RATIONAL Z-TRANSFORM FROM THE
	2ND	

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	3RD	GIVEN POLES AND ZEROS USING MATLAB.
12TH	1ST	TO DETERMINE PARTIAL FRACTION EXPANSION OF RATIONAL Z-TRANSFORM USING MATLAB.
	2ND	
	3RD	
13TH	1ST	TO GENERATE DISCRETE SINE AND COSINE SIGNALS WITH GIVEN SAMPLING FREQUENCY.
	2ND	
	3RD	
14TH	1ST	WRITE A PROGRAM TO GENERATE A FIXED SINE PWM.
	2ND	
	3RD	
15TH	1ST	WRITE A PROGRAM TO GLOW LEDS BY SELECTING SWITCHES USING DIGITAL I/O.
	2ND	
	3RD	

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