UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA
Academic Lesson Plan for summer semester- 2025

Name of the teaching faculty :Kishore Chandra Prusty
Semester:4th
No. of periods per week: **3**
End Semester Examination-50
Total Mark-75

Discipline / Dept.: **EE**
Subject(PRATICAL): **Simulation on MATLAB**
Total Period :45
Sessional : 25

Week	Period	UNIT/CHAPTER	TOPIC TO BE COVERED
1ST	1st	INTRODUCTION TO MATLAB PROGRAMMING	Functions and operation using variables and arrays. 1.1.1. To learn algebraic, trigonometric and exponential manipulation.
	2nd		
	3rd		
2ND	1st		To learn Arithmetic, Relational and Logic operator
	2nd		
	3rd		
3RD	1st		Matrix formation and its manipulation
	2nd		
	3rd		
4TH	1st		Vector manipulation: 1.3.1. Use of linspace to create vectors
	2nd		
	3rd		
5TH	1st		. To create, add and multiply vectors
	2nd		
	3rd		
6TH	1st		Plotting: 1.4.1. Two dimensional Plots and sub plots
	2nd		
	3rd		
7TH	1st		Write and execute a file to plot a circle, impulse, step, ramp, sine and cosine functions. .
	2nd		
	3rd		
8TH	1st	EXPERIMENT8	Use of Commonly used blocks, Math operation block and Display block from SIMULINK library.
	2nd		
	3rd		
	1st	EXPERIMENT9	Use of logical and relational

9TH	2nd		operator block
	3rd		
10TH	1st	**Introduction to SIMULINK**	Use of Sim-Power system block to use Electrical sources, elements and Power electronics devices.
	2nd		
	3rd		
11TH	1st		Verification of Network theorems.
	2nd		
	3rd		
12TH	1st		Simulation of a half wave uncontrolled rectifier.
	2nd		
	3rd		
13TH	1st		Simulation of 1-phase full bridge controlled rectifier..
	2nd		
	3rd		
14TH	1st		Simulation of step-down chopper.
	2nd		
	3rd		
15TH	1st		PRACTISE
	2nd		
	3rd		

This is done by the concerned faculty.

Kishore Chandra Prusty
G.F Electrical Engg.