LESSON PLAN

SUB:-SIMULATION PRACTICE ON MATLAB. BRANCH:- ELECTRICAL ENGG. SEMESTER: 4TH

NAME OF FACULTY: - UMESH KU DALAI



GOVERNMENT POLYTECHNIC, BHADRAK SESSION:2023-24

G.P.BHADRAK

ademic Co-ordinator

Cademic Co-ordinato

Govt. Polytechnic Bhadral

Frincipa Govt. Polytechnic NBhadrak

DISCIPLINE ELECTRICAL ENGG.	SEMESTER 4 TH	NAME OF THE TEACHING FACULTY UMESH KU DALAI (Lect. in Elect. Engg.)
SUBJECT SIMULATION PRATICE ON MATLAB	NO. OF DAYS/WEEK CLASS ALLOTTED – 45 (3P/week)	SEMESTER FROM DATE 16.01.2024 to 26.04.2024
WEEK	CLASS DAY	PRACTICAL TOPICS
lst	01	Introduction to MATLAB programming: Functions and operation using variables and arrays. To learn algebraic, trigonometric and exponential Functions and operation using variables and arrays.
2nd	02	To learn algebraic, trigonometric and exponential
	01	To learn Arithmetic, Relational and Logic operator
	02	To learn Arithmetic, Relational and Logic operator
2.1	01	Matrix formation and its manipulation
Srd	02	Matrix formation and its manipulation
	01	Vector manipulation:
4th	02	Vector manipulation: Use of linspace to create vectors
5TH	01	To create, add and multiply vectors. Use of sin and sqrt functions with vector arguments.
	02	To create, add and multiply vectors. Use of sin and sqrt functions with vector arguments
01H	01	Use of sin and sqrt functions with vector arguments
TH	02	Use of sin and sqrt functions with vector arguments
/	01	Two dimensional Plots and sub plots
8TH	02	Two dimensional Plots and sub plots
0	01	Label the plot and printing.
	02	Write and execute a file to plot a circle, sine and cosine Label the plot and printing. Write and execute a file to
		and execute a me to plot a circle, sine and cosine

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9	01	Label the plot and printing.
		Write and execute a file to plot a impulse, step, ramp.
	02	Label the plot and printing.
1 a TH		Write and execute a file to plot a impulse, step, ramp.
	01	Introduction to SIMULINK:
	• •	Use of Commonly used blocks, Math operation block and Display block from SIMULINK library
	02	Use of Commonly used blocks, Math operation block and Display block from SIMULINK library
11 TH	01	Use of logical and relational operator block. Use of Sim- Power system block to use Electrical sources, elements and Power electronics devices
	02	Use of logical and relational operator block. Use of Sim- Power system block to use Electrical sources, elements and Power electronics devices
12 TH	01	Verification of Network theorems.
	02	Verification of Network theorems.
13 TH	01	Simulation of a half wave uncontrolled rectifier.
	02	Simulation of a half wave uncontrolled rectifier.
14 TH .	. 01	Simulation of 1-phase full bridge controlled rectifier.
	02	Simulation of 1-phase full bridge controlled rectifier.
15 TH	01	Simulation of step-down chopper.
	02	Simulation of step-down chopper.
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13.01.2024

SIGNATURE OF THE FACULTY

Lect.in Elect.Engg Govt.Poly.Bhadrak

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