LESSON PLAN

SUB:- SIMULATION PRACTICE ON MATLAB

BRANCH:- ELECTRICAL ENGG.

SEMESTER:-4TH

NAME OF FACULTY:- DHARMENDRA SAHOO



GOVERNMENT POLYTECHNIC, BHADRAK

Sl. No.	Topic	Expected Date of Completion	Actual Date of Completion	Teaching Learning Process
	Introduction to MATLAB programming:			
1.	Functions and operation using variables and arrays. To learn Algebraic Function			
2.	Functions and operation using variables and arrays. To learn trigonometric Function.			
3.	Functions and operation using variables and arrays. To learn exponential Function.			
4.	To learn Arithmetic operator			
5.	To learn Relational and Logic operator			
6.	Matrix formation and its manipulation			
7.	Vector manipulation: Use of linspace to create vectors			

8.	To create, add and multiply vectors. Use of sin and sqrt functions with vector arguments.	
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10.	Two dimensional Plots and sub plots	
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12.	Label the plot and printing. Write and execute a file to plot a circle, impulse, step, ramp, and sine and cosine functions.	
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14.	Introduction to SIMULINK:	
15.	Use of Commonly used blocks, Math operation block and Display block from SIMULINK library.	
16.	Use of logical and relational operator block.	
17.	Use of Sim-Power system block to use Electrical sources, elements and Power electronics devices	
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19.	Verification of Network theorems.	
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21.	Simulation of a half wave uncontrolled rectifier. Simulation of 1-phase full bridge controlled rectifier.	

22.	Simulation of step-down chopper.		