

PNS SCHOOL OF ENGINEERING AND TECHNOLOGY		
Branch: Electrical Engineering	Semester: 4 <sup>TH</sup>	Name of the DEMonstrator: <b>Sushree Sangita Prusty.</b>
Subject: SPM	No of Classes Alloted in a Week: 2	Duration of Semester: 14.2.2023 - 23.5.2023
Week	Class Day	Theory / practical Topic
1st	1	To Understand MATLAB Software, Basic Features, Tool Box And Different functions Such Algebraic, Trigonometric And Exponential function used in MATLAB
	2	To Understand MATLAB Software, Basic Features, Tool Box And Different functions Such Algebraic, Trigonometric And Exponential function used in MATLAB
2nd	1	To get familiar with different operator such as Arithmetic, Relational and Logic operator used in MATLAB
	2	To get familiar with different operator such as Arithmetic, Relational and Logic operator used in MATLAB
3rd	1	Generate a matrix and perform some basic operation on matrices such as addition, subtraction, multiplication and special matrix functions using MATLAB Software.
	2	Generate a matrix and perform some basic operation on matrices such as addition, subtraction, multiplication and special matrix functions using MATLAB Software.
4th	1	Create a vector using linspace and perform some basic vector operation on such as addition, subtraction, multiplication. using MATLAB Software.
	2	Create a vector using linspace and perform some basic vector operation on such as addition, subtraction, multiplication. using MATLAB Software.
5th	1	To get familiar with plotting commands used in MATLAB
	2	To get familiar with plotting commands used in MATLAB
6th	1	To plot a circle of unit radius using MATLAB Software
	2	To plot a circle of unit radius using MATLAB Software
7th	1	To plot the fundamental signals like unit impulse signal, unit step signal & unit ramp signal using MATLAB.
	2	To plot the fundamental signals like unit impulse signal, unit step signal & unit ramp signal using MATLAB.
8th	1	To generate the plot of sine and cosine wave using MATLAB functions.
	2	To generate the plot of sine and cosine wave using MATLAB functions.
9th	1	To verify Superposition theorem using MATLAB SIMULINK
	2	To verify Superposition theorem using MATLAB SIMULINK
10th	1	To verify Thevenin's theorem using MATLAB SIMULINK
	2	To verify Thevenin's theorem using MATLAB SIMULINK
11th	1	To verify Norton's theorem using MATLAB SIMULINK
	2	To verify Norton's theorem using MATLAB SIMULINK
12th	1	To Simulate a half wave uncontrolled rectifier using MATLAB SIMULINK
	2	To Simulate a half wave uncontrolled rectifier using MATLAB SIMULINK
13th	1	To simulate 1-phase full wave bridge controlled rectifier using MATLAB SIMULINK
	2	To simulate 1-phase full wave bridge controlled rectifier using MATLAB SIMULINK

Signature of the  
Demonstrator

Signature of the  
H.O.D.