

| PNS SCHOOL OF ENGINEERING AND TECHNOLOGY | | |
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| Branch: Electrical Engineering | Semester: 4 TH | Name of the DEmonstrator: Sushree Sangita Prusty. |
| 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.