## Electrical Engineering Department
## SIMULATION LAB (EE 1856)
### List of Experiments

| S.No. | Name of Experiments | CO's |
|---|---|---|
| 1 | Introduction to MATLAB. | CO2 |
| 2 | Introduction to Simulink and Different Tools Boxes. | CO2 |
| 3 | To Study the Simulation of Speed torque Characteristics of DC Motor. | CO4 |
| 4 | (a) To study various MATLAB commands for creating two- and three-dimensional plots. <br> (b) Write a MATLAB program to plot the following continuous time and discrete time signal i) Step Function ii) Impulse Function iii) Exponential Function iv) Ramp Function v) Sine Function. | CO3 |
| 5 | Write the MATLAB Program of single-phase Half-Wave Rectifier with R Load. | CO4 |
| 6 | Write the MATLAB Program to plot magnitude and phase response of a given system. | CO3 |
| 7 | Write a MATLAB Program of Ferranti effect in transmission line. | CO4 |
| 8 | Write a MATLAB program to understand the fundamentals of economic dispatch and solve the problem using classical method with and without line losses. | CO4 |
| 9 | Simulation of Half Wave Rectifier | CO4 |
| 10 | Simulation of RLC circuit in Power System | CO4 |