Table of Contents

|  |  |  |
| --- | --- | --- |
| **Experiment no.** | **Experiment name** | **Remarks** |
|  | Introduction to MATLAB programming |  |
|  | Basic concept development on the idea of Simulink using MATLAB |  |
|  | Generate an algorithm and write a program to calculate the Y-bus matrix of a given power system |  |
|  | Generate an algorithm and write a program to calculate the Y-bus reduction matrix of a given power system |  |
|  | Generate an algorithm and write a program on load flow study of a given power system using Gauss-Seidel method |  |
|  | Generate an algorithm and write a program on load flow study of a given power system using Newton Raphson method |  |
|  | Write a program to draw the zero, positive, and negative sequence components of a given unbalanced system |  |
|  | Transient response analysis of a series RL circuit to imitate the terminal fault of an unloaded alternator |  |
|  | Load flow study using MATLAB Simulink platform |  |
|  | Study of the effect of over-current relay and observation of the response for 3LG and 1LG fault in transmission line using MATLAB Simulink |  |
|  | Study of the effect of the circuit breaker and observation of the response for 3LG and 1LG fault in transmission line using MATLAB Simulink |  |