

**M. Tech I Year II Semester**

**18EPSP203 POWER SYSTEM PROTECTION LABORATORY**

**L T P C**  
**0 0 4 2**

**Course Prerequisite:** Power System Protection

**Course Objectives:**

1. To interpret the operating characteristics of various protective relays.
2. To understand the transformer protection and feeder protection concepts.

**List of experiments**

1. Modelling of Relay using MATLAB (Differential Relay).
2. Characteristics of IDMT over Current Relay.
3. Characteristics of Static Negative Sequence Relay.
4. Characteristics of Over Voltage Relay.
5. Principle of Reverse Power Protection.
6. Differential Protection of Transformer.
7. Radial Feeder Protection.
8. Parallel Feeder Protection.
9. Relay co-ordination of radial transmission/distribution system
10. Impact of Induction Motor Starting on Power System.

**Course Outcome:**

At the end of the course, students will able to

1. Analyze the operating characteristics of various protective relays.
2. Understand the transformer protection and feeder protection concepts.

**Mode of Evaluation:** Practical, Written Examination