

List of Experiments:

1. Determination of Equivalent circuit of a 3-winding transformer.
2. Determination of sequence impedances of a cylindrical rotor synchronous machine.
3. Fault Analysis of a 3 phase Alternator, (LG, LL, LLG, LLLG faults).
4. Determination of reactances of Salient Pole Synchronous Machine.
5. Determination of sequence impedances of 3 ph Transformers.
6. Characteristics of over current relay (IDMT Characteristics).
7. Characteristics of Percentage biased differential Relay.
8. Characteristics of Over Voltage relay.
9. Characteristics of Static Negative Sequence Relay.
10. Performance and Testing of Alternator Protection System.
11. Performance and Testing of Transformer Protection System
12. Feeder protection system
13. Performance and Testing of Transmission line Model.
14. Differential Protection on Single Phase Transformer.

1. Sumpner's test on a pair of 1- Φ transformers.
2. Scott connection & Parallel operation of transformers.
3. No-load & Blocked rotor test on 3- Φ induction motor.
4. Equivalent circuit of a 1- Φ induction motor.
5. Regulation of alternator by synchronous impedance method and MMF method.
6. Determination of X_d & X_q of a salient pole synchronous machine.
7. V and inverted V curves of a 3-Phase Synchronous Motor.

8. Separation of core losses of a 1- Φ transformer.
9. Regulation of alternator by ZPF and ASA method.
10. Determination of sequence impedances of 3- Φ alternator.
11. Determination of sequence impedances of 3- Φ transformer.
12. Speed control of 3- Φ slip ring induction motor.