

M.Tech I Sem
EEPC1L1 - POWER SYSTEMS LABORATORY

1. Determination of Sub-Transient Reactance of a Salient Pole Machine.
2. Determination of Sequence Impedances of a Cylindrical Rotor Synchronous Machine.
3. Fault Analysis of
 - i) LG Fault
 - ii) LL Fault
 - iii) LLG Fault
 - iv) LLLG Fault
4. Power Angle Characteristics of a Salient Pole Synchronous Machine.
5. Equivalent Circuit of a Three Winding Transformer.
6. Characteristics of IDMT Over Current Relay (Electro Magnetic Type).
7. Characteristics of Static Negative Sequence Relay.
8. Characteristics of Over Voltage Relay.
 - i) Electromagnetic Type
 - ii) Microprocessor Type
9. Characteristics of Percentage Biased Differential Relay.
 - i) Electromagnetic Type
 - ii) Static Type
10. Simulation of 220KV Transmission line model.
 - i) Ferranti Effect
 - ii) Transmission line parameter
 - iii) Surge Impedance loadings
 - iv) Voltage control methods
11. Transformer Oil Testing.