

**Faculty of Engineering & Technology**

**Electrical Power Engineering**

**Information :**

**Course Code :** EED340

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Computer & Intelligent Systems Engineering

**Description :**

Composition of Electrical Power Systems: generation, transmission, sub-transmission, distribution and loads. Single-Line Diagrams. Load characteristics: daily load curve, load duration curve, maximum and average loads, load, capacity, utilization, and diversity factors. Economics of power generation: fixed cost, depreciation, running cost. Tariffs and power factor improvement. Per-Unit system. Fault analysis: System modeling under fault conditions, Symmetrical faults. Circuit breakers and switchgear.