

**Faculty of Engineering & Technology****Electrical Power Engineering****Information :****Course Code :** EED340**Level :** Undergraduate**Course Hours :** 3.00- Hours**Department :** Electrical Power Engineering**Instructor Information :**

| Title              | Name                           | Office hours |
|--------------------|--------------------------------|--------------|
| Professor          | Mousa Awadallah Abdallah Mousa | 3            |
| Teaching Assistant | Omar Mohammed Hesham Abdulaal  |              |

**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.