

Faculty of Engineering & Technology

Electrical Power Sources

Information :

Course Code : EED457

Level : Undergraduate

Course Hours : 2.00- Hours

Department : Communication and Computer Engineering

Description :

Power system structure: Generation, Transmission, Distribution. Transformers: Types, Structure, Equivalent circuit, Operation, Performance. Synchronous generators: Structure, Equivalent circuit, Operation, performance, Backup generators. Batteries: Types, Operation, Performance. Uninterruptable power supplies: Structure, Operation, Topologies. Standalone photovoltaic systems: Components, Performance, Sizing. Smart Grids: Concept, Structure, Communication Aspects.