

EEE526 Electric Power Systems Planning and Design(2 Units)

Department of Electrical and Information Engineering

Covenant University

1. EEE526

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Overall planning of power systems and design: Power systems equipment, selection and application, Economics generator sizes and site selection. Sub-station Designs: General requirements, electrical layout and specifications. Design of earthing systems. Overhead lines and underground cable design, Transmission and distribution system design, National and International regulations governing overhead lines. Reactive Power Planning. Flexible AC Transmission Systems (FACTS) and High Voltage DC links. Preparation of Bills of Engineering Measurement and Evaluation (BEME). Computer Aided Design of Power systems.