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Course Title	Power System Engineering
Course number	EE-231N
Credit Value	4
Course Category	DC
Pre-requisite	Nil
Contact Hours (L-T-P)	3-1-0
Type of Course	Theory
Course Objectives	To give an overview of power system and its various components and their importance. Calculation of line parameters, evaluation of line performance, mechanical aspects of overhead transmission line, underground cables, their constructional features and current rating. Sub-stations, its earthing various equipments used in them and their function.
Course Outcomes	After completing the course, the students should be able to know about the overhead and underground types of transmission systems, different mathematical models to represent different types of transmission lines and evaluate their performance. They should also be able to design an overhead transmission line including mechanical aspects. They will also know about different types of sub-stations, sub-station earthing and different components used in it and their objective.
Syllabus	<p>UNIT I: Electrical Characteristics of O.H. Lines: Types of conductors for O.H. power transmission. Calculation of Line parameters; inductance and capacitance for single and double circuit lines, bundle conductors. Concept of GMD and GMR, Effect of earth on line capacitance</p> <p>UNIT II: Performance of O.H. Transmission Lines: Representation of short, medium and long transmission lines; nominal-T, nominal-π and equivalent-π, Characteristic impedance, Z_0 and SIL, ABCD parameters, Voltage regulation and efficiency, Compensation of line, Corona and radio interference.</p> <p>UNIT III: Insulators and Mechanical Design of O.H. Lines: Types of insulators; pin, disc and strain type. Voltage distribution and equalization; Arcing horns, Types of line supports, Air clearance. Sag calculations, effect of wind and ice loading. Ground clearance, Vibration of conductors and dampers.</p> <p>UNIT IV: Underground Cables: Construction of single core and three core cables, electrostatic stresses and grading of cables, thermal rating of cables, testing of cables, HVDC cables, cable failure.</p> <p>UNIT V: Substation: Classification, components and layout of substation (33 / 11 Kv). Package substations. Introduction to Gas insulated substations, Substation grounding and grounding methods.</p>
Books*/References	<ol style="list-style-type: none"> *Nagrath and Kothari Power System Engg. 3rd edition (TMH) Cotton and Barbar Transmission and Distribution of Electrical Energy, (BI Publications). Ashfaq Husain Electrical Power System; 4th edition (CBS). WD Stevenson Elements of Power System Analysis (McGraw Hill). CL Wadhwa Electrical Power Systems (Wiley Eastern).

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