NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Electrical Engineering - NOC:Advances in UHV Transmission and Distribution Subject Co-ordinator - Prof Subba Reddy B Co-ordinating Institute - IISc - Bangalore Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Advantages of HVAC/DC Transmission, Introduction to Grid Management Lecture 2 - Transmission system development, Important components of transmission system Lecture 3 - Insulation coordination, over voltage in power systems Lecture 4 - Design/selection of insulators, Importance of grading/cc rings Lecture 5 - Non ceramic insulators performance-service experience Lecture 6 - Failure of apparatus in the field, importance of reliability and testing Lecture 7 - Pollution flashover phenomena, modeling etc Lecture 8 - Planning of High Voltage laboratories Lecture 9 - Importance of High Voltage testing and techniques employed Lecture 10 - Basic philosophy of HV testing, tests for various HV apparatus Lecture 11 - HV testing techniques for various apparatus Lecture 12 - HV testing on Composite Insulators Lecture 13 - Surface degradation studies on composite insulators Lecture 14 - Surface morphological techniques for composite insulators Lecture 15 - Conductors used for EHV/UHV transmission Lecture 16 - Corona nad interference on transmission lines Lecture 17 - Introduction of HTLS conductors and their advantages Lecture 18 - Mechanical considerations for HV conductors Lecture 19 - Introduction to Towers and importance of foundations Lecture 20 - Selection/Design of clearances for HV towers Lecture 21 - Design Optimization for UHV towers Lecture 22 - Introduction to 1100kV HVDC Lecture 23 - Introduction to HV Substations Lecture 24 - Types of Substations, comparison Lecture 25 - Insulation coordination, Components in a typical substation Lecture 26 - Preventive maintenance of Substation Lecture 27 - Electric and magnetic fields, mitigations techniques Lecture 28 - Importance of Grounding, reducing Earthing resistance Lecture 29 - Introduction to the use of Fiber optic cables, OPGW

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- Lecture 30 Introduction to communication and SCADA
- Lecture 31 Precautions and safety measures in substation
- Lecture 32 Electrical hazards, minimum clearances in substation
- Lecture 33 Importance of Generation of HVDC in the laboratory
- Lecture 34 Importance of Generation of HVAC, Impulse Voltage and Currents in the laboratory
- Lecture 35 Measurements of High Voltages
- Lecture 36 Measurements of High Voltages (Continued...)
- Lecture 37 Introduction to digital recorders, measurement
- Lecture 38 Upgradation/uprating of transmission lines- advantages
- Lecture 39 Upgradation/uprating of transmission lines- advantages (Continued...)
- Lecture 40 Summary of the course

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