

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

NPTEL Video Course - Electrical Engineering - NOC:Facts Devices

Subject Co-ordinator - Prof. Avik Bhattacharya

Co-ordinating Institute - IIT - Roorkee

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction - I  
Lecture 2 - Introduction - II  
Lecture 3 - Switch Realization  
Lecture 4 - PWM - I  
Lecture 5 - PWM - II  
Lecture 6 - Closed Loop Control  
Lecture 7 - Multi Level Inverter - I  
Lecture 8 - Multi Level Inverter - II  
Lecture 9 - Multi Level Inverter - III  
Lecture 10 - Shunt Compensator Analysis  
Lecture 11 - Shunt Compensator TCR and TSC - I  
Lecture 12 - Shunt Compensator TCR and TSC - II  
Lecture 13 - Static Var Compensator - I  
Lecture 14 - Static Var Compensator - II  
Lecture 15 - STATCOM - I  
Lecture 16 - STATCOM - II  
Lecture 17 - STATCOM/SVC Comparisons  
Lecture 18 - External Control Design of Static Var Compensator  
Lecture 19 - DSTATCOM  
Lecture 20 - Design of DSTATCOM  
Lecture 21 - Series Compensator - I  
Lecture 22 - Series Compensator - II  
Lecture 23 - GCSC and SSSC  
Lecture 24 - SSSC - II  
Lecture 25 - SSSC - III and TSSC  
Lecture 26 - TSSC - II and TCSC  
Lecture 27 - TCSC Characteristics and Control  
Lecture 28 - Voltage and Phase Angle Regulation  
Lecture 29 - Voltage and Phase Angle Regulator Device - I

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

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- Lecture 30 - Voltage and Phase Angle Regulator Device - II
- Lecture 31 - UPQC Introduction and Classification
- Lecture 32 - UPQC Classification - I
- Lecture 33 - Operation and Control of UPQC - II
- Lecture 34 - Operation and Control of UPQC - III
- Lecture 35 - UPFC
- Lecture 36 - Control Structure of UPFC
- Lecture 37 - Comparison of UPFC with PAR and Series Compensators
- Lecture 38 - Interline Power Flow Controller (IPFC) - I
- Lecture 39 - Interline Power Flow Controller (IPFC) - II
- Lecture 40 - Practical Application and Conclusion