

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

NPTEL Video Course - Electronics and Communication Engineering - Basic Electronics

Subject Co-ordinator - Prof. Chitralkha Mahanta

Co-ordinating Institute - IIT - Guwahati

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

Lecture 1 - Semiconductor materials  
Lecture 2 - PN Junction Diodes  
Lecture 3 - Diode Equivalent Circuits  
Lecture 4 - Diode Rectifier Circuits  
Lecture 5 - Zener Diode and Applications  
Lecture 6 - Clipping and Clamping Circuits  
Lecture 7 - Transistor Operation - Part-1  
Lecture 8 - Transistor Operation - Part-2  
Lecture 9 - Biasing the BJT - Part-1  
Lecture 10 - Biasing the BJT - Part-2  
Lecture 11 - BJT Small Signal Analysis  
Lecture 12 - BJT Amplifier - Part-1  
Lecture 13 - BJT Amplifier - Part-2  
Lecture 14 - Frequency Response of BJT Analysis - Part-1  
Lecture 15 - Bipolar Junction Transistors  
Lecture 16 - Transistor as a Switch  
Lecture 17 - MOSFET - Part-1  
Lecture 18 - MOSFET - Part-2  
Lecture 19 - MOSFET under dc operation  
Lecture 20 - Mosfet as an Amplifier  
Lecture 21 - Small signal model of MOSFET - Part-1  
Lecture 22 - Small signal model of MOSFET - Part-2  
Lecture 23 - High Frequency model of mosfet  
Lecture 24 - Junction Field Effect Transistor  
Lecture 25 - Operational Amplifier Introduction  
Lecture 26 - Ideal Op-Amp  
Lecture 27 - Op-Amp applications Part-1  
Lecture 28 - Op-Amp Applications Part-2  
Lecture 29 - Op-Amp Applications Part-3

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- Lecture 30 - The practical Op-Amp
- Lecture 31 - Positive feedback and oscillation
- Lecture 32 - Comparator
- Lecture 33 - Large Signal Amplifiers
- Lecture 34 - Transformer Couple Power Amplifier
- Lecture 35 - Class AB Operations of Power Amplifier
- Lecture 36 - Power BJTs
- Lecture 37 - Regulated Power Supply
- Lecture 38 - Four Layered Diode
- Lecture 39 - Silicon Control Rectifier
- Lecture 40 - SCR Applications