

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

NPTEL Video Course - Electrical Engineering - NOC:Basic Electronics

Subject Co-ordinator - Prof. Mahesh B. Patil

Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - A brief history of electronics  
Lecture 2 - Superposition  
Lecture 3 - Useful circuit techniques - 1  
Lecture 4 - Useful circuit techniques - 2  
Lecture 5 - Phasors - 1  
Lecture 6 - Phasors - 2  
Lecture 7 - RC/RL circuits in time domain - 1  
Lecture 8 - RC/RL circuits in time domain - 2  
Lecture 9 - RC/RL circuits in time domain - 3  
Lecture 10 - RC/RL circuits in time domain - 4  
Lecture 11 - RC/RL circuits in time domain - 5  
Lecture 12 - Simulation of RC circuit  
Lecture 13 - Diode circuits - 1  
Lecture 14 - Diode circuits - 2  
Lecture 15 - Diode circuits - 3  
Lecture 16 - Diode circuits - 4  
Lecture 17 - Diode circuits - 5  
Lecture 18 - Diode circuits - 6  
Lecture 19 - Diode rectifiers - 1  
Lecture 20 - Diode rectifiers - 2  
Lecture 21 - Diode rectifiers - 3  
Lecture 22 - Bipolar Junction Transistor - 1  
Lecture 23 - Bipolar Junction Transistor - 2  
Lecture 24 - Bipolar Junction Transistor - 3  
Lecture 25 - BJT amplifier - 1  
Lecture 26 - BJT amplifier - 2  
Lecture 27 - BJT amplifier - 3  
Lecture 28 - BJT amplifier - 4  
Lecture 29 - BJT amplifier - 5

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)

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

---

- Lecture 30 - BJT amplifier - 6
- Lecture 31 - BJT amplifier - 7
- Lecture 32 - Introduction to op-amps
- Lecture 33 - Op-amp circuits - 1
- Lecture 34 - Op-amp circuits - 2
- Lecture 35 - Op-amp circuits - 3
- Lecture 36 - Difference amplifier
- Lecture 37 - Instrumentation amplifier - 1
- Lecture 38 - Instrumentation amplifier - 2
- Lecture 39 - Op-amp nonidealities - 1
- Lecture 40 - Op-amp nonidealities - 2
- Lecture 41 - Bode plots - 1
- Lecture 42 - Bode plots - 2
- Lecture 43 - Bode plots - 3
- Lecture 44 - Op-amp filters
- Lecture 45 - Simulation of op-amp filter
- Lecture 46 - Precision rectifiers - 1
- Lecture 47 - Precision rectifiers - 2
- Lecture 48 - Precision rectifiers - 3
- Lecture 49 - Simulation of triangle-to-sine converter
- Lecture 50 - Schmitt triggers - 1
- Lecture 51 - Schmitt triggers - 2
- Lecture 52 - Schmitt triggers - 3
- Lecture 53 - Sinusoidal oscillators - 1
- Lecture 54 - Sinusoidal oscillators - 2
- Lecture 55 - Introduction to digital circuits
- Lecture 56 - Boolean algebra
- Lecture 57 - Karnaugh maps
- Lecture 58 - Combinatorial circuits - 1
- Lecture 59 - Combinatorial circuits - 2
- Lecture 60 - Combinatorial circuits - 3
- Lecture 61 - Introduction to sequential circuits
- Lecture 62 - Latch and flip-flop
- Lecture 63 - JK flip-flop
- Lecture 64 - D flip-flop
- Lecture 65 - Shift registers
- Lecture 66 - Counters - 1
- Lecture 67 - Counters - 2
- Lecture 68 - Simulation of a synchronous counter

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)

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

---

- Lecture 69 - 555 timer
- Lecture 70 - Digital-to-analog conversion - 1
- Lecture 71 - Digital-to-analog conversion - 2
- Lecture 72 - Analog-to-digital conversion