

Basic Electrical Technology - Video course

| Lecture No. | Lecture Title |
|-------------|---|
| 1 & 2 | Introduction |
| 3 | Passive Components |
| 4 | Sources |
| 5 | Krichoff's Law |
| 6 | Modelling of Circuit |
| 7 | Modelling of Circuit Part 2 |
| 8 | Analysis using Matlab |
| 9 | Sinusoidal steady state |
| 10 | Transfer function and Pole Zero Domain |
| 11 | Transfer function and Pole Zero Domain Part 2 |
| 12 | The Sinusoid |
| 13 | Phasor Analysis Part 1 |
| 14 | Phasor Analysis Part 2 |
| 15 | Power Factor |
| 16 | Power ports |
| 17 | Transformer Basics Part 1 |
| 18 | Transformer Basics Part 2 |
| 19 | Transformer Basics Part 3 |
| 20 | The Practical Transformer Part 1 |
| 21 | The Practical Transformer Part 2 |
| 22 | The Practical Transformer Part 3 |
| 23 | DC Machine Part 1 |
| 24 | DC Machine Part 2 |
| 25 | DC Generators Part 1 |
| 26 | DC Generators Part 2 |
| 27 | DC Motors Part 1 |
| 28 | DC Motors Part 2 |
| 29 | DC Motors Part 3 |
| 30 | Three Phase System Part 1 |
| 31 | Three Phase System Part 2 |
| 32 | Three Phase System Part 3 |
| 33 | Three Phase System Part 4 |
| 34 | Three Phase Transformer Part 1 |
| 35 | Three Phase Transformer Part 2 |
| 36 | Induction Motor Part 1 |
| 37 | Induction Motor Part 2 |
| 38 | Induction Motor Part 3 |
| 39 | Induction Motor Part 4 |
| 40 | Synchronous Machine |



NP-TEL

NPTEL

<http://nptel.ac.in>

Electrical Engineering

Coordinators:
Prof. L. Umanand

 Centre for Electronics Design
and Technology IISc Bangalore