

The following video lectures and web courses of NPTEL are available in Electrical simulation lab. Students can access.

NPTEL Video Lectures:

| S.No | Course_Name  | Name of Professor                              |
|------|--|--|
| 1    | Power Electronics  | Prof. B.G. Fernandes, Prof. Kishore Chatterjee |
| 2    | Circuit Theory   | Prof. S.C. Dutta Roy                           |
| 3    | Power Systems Operation and Control  | Dr. S.N. Singh                                 |
| 4    | Basic Electrical Technology  | Prof. L. Umanand                               |
| 5    | Energy Resources & Technology  | Prof. S. Banerjee                              |
| 6    | Illumination Engineering   | Prof. N.K. Kishore                             |
| 7    | Industrial Automation and Control  | Prof. S. Mukhopadhyay, Prof. S. Sen            |
| 8    | Power System Analysis  | Prof. A.K. Sinha                               |
| 9    | Electromagnetic Fields   | Prof. Harishankar Ramachandran                 |
| 10   | Industrial Drives - Power Electronics  | Prof. K. Gopakumar                             |
| 11   | Networks and Systems   | Prof. V.G.K. Murti                             |
| 12   | Power System Generation, Transmission and Distribution (Encapsulated from earlier Video) | Prof. D.P. Kothari                             |
| 13   | Analog ICs   | Prof. K. Radhakrishna Rao                      |
| 14   | Digital Integrated Circuits  | Prof. Amitava Dasgupta                         |
| 15   | Digital Signal Processing  | Prof. S.C. Dutta Roy                           |
| 16   | Basic Electronics  | Prof. Chitrlekha Mahanta                       |
| 18   | Digital Signal Processing  | Prof. T.K. Basu                                |
| 19   | Control Engineering  | Prof. M. Gopal                                 |
| 20   | Power System Dynamics  | Dr. M.L. Kothari                               |
| 21   | Power System Dynamics and Control  | Dr. A.M. Kulkarni                              |
| 22   | Advanced Control Systems   | Prof. S. Majhi                                 |
| 23   | High Voltage DC Transmission   | Dr. S.N. Singh                                 |
| 24   | Switched Mode Power Conversion   | Prof. L. Umanand, Prof. V. Ramanarayanan       |
| 25   | Optimal Control  | Prof. G.D. Ray                                 |
| 26   | Pulse width Modulation for Power Electronic Converters                                   | Dr. G. Narayanan                               |
| 27   | Electrical Machines -I   | Dr. D. Kastha                                  |
| 28   | Advanced Electric Drives   | Dr. S.P. Das                                   |
| 29   | Modelling and Analysis of Electric Machines  | Dr. Krishna Vasudevan                          |
| 30   | Probability Foundation for Electrical Engineers  | Dr. Krishna Jagannathan                        |
| 31   | Power Electronics and Distributed Generation   | Dr. Vinod John                                 |

NPTEL Web Courses:

| S.No | Course_Name                                     | Name of Professor  |
|------|---|--|
| 1    | Non-Conventional Energy Systems                 | Prof. L. Umanand   |
| 2    | Power System Protection                         | Prof. S.A. Soman   |
| 3    | Signals and Systems                             | Prof. V.M. Gadre   |
| 4    | Control Engineering                             | Prof. M. Gopal   |
| 5    | Industrial Drives                               | Dr.K .R. Rajagopal   |
| 6    | Semiconductor Devices                           | Dr. G.S. Visweswaran   |
| 7    | Digital Circuits                                | Prof. Anil Mahanta,Prof. Roy Paily<br>Palanthinkal                     |
| 8    | Electromagnetic Fields                          | Dr. Ratnajit Bhattacharjee   |
| 9    | Basic Electronics                               | Prof. Yatindra N Singh,Prof. Joseph John                               |
| 10   | High Voltage Engineering                        | Prof. Ravindra Arora   |
| 11   | Power Systems Analysis                          | Prof. Arindam Ghosh  |
| 12   | Basic Electrical Technology                     | Prof. N.K. De,Prof. T.K. Bhattacharya,Prof.<br>G.D. Roy                |
| 13   | Illumination Engineering                        | Prof. N.K. Kishore   |
| 14   | Industrial Automation and Control               | Prof. S. Mukhopadhyay,Prof. S. Sen                                     |
| 15   | Power Electronics                               | Dr. D.Kastha,Prof. D.Prasad,Prof. N.K.<br>De,Prof. Sabyasachi Sengupta |
| 16   | Electrical Machines I                           | Dr. Krishna Vasudevan,Prof. G. Sridhara<br>Rao,Prof. P. Sasidhara Rao  |
| 17   | Electrical Machines II                          | Dr. Krishna Vasudevan,Prof. G. Sridhara<br>Rao,Prof. P. Sasidhara Rao  |
| 18   | Power Systems Operation and Control             | Dr. A.M. Kulkarni  |
| 19   | Digital Control System                          | Dr. Indrani Kar,Prof. S. Majhi   |
| 20   | Introduction to Hybrid and Electric<br>Vehicles | Prof. S. Majhi,Dr. Praveen Kumar                                       |
| 21   | Nonlinear Control System                        | Dr. Arun D. Mahindrakar  |
| 22   | Power System Stability and Control              | Dr. B. Kalyan Kumar  |
| 23   | Computer Aided Power System Analysis            | Dr. Biswarup Das,Dr. Vinay Pant  |
| 24   | Microprocessor                                  | Prof. Pramod Agarwal   |
| 25   | Restructured Power Systems                      | Prof. S.A. Khaparde, Dr. A.R. Abhyankar                                |
| 26   | Power Quality in Power Distribution<br>Systems  | Dr. Mahesh Kumar   |
| 27   | Energy Management Systems and<br>SCADA          | Dr. K. Shanti Swarup   |