

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

NPTEL Video Course - Mechanical Engineering - NOC:Mechatronics

Subject Co-ordinator - Prof. Pushparaj Mani Pathak

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Introduction
Lecture 2 - Mechatronics System Examples
Lecture 3 - Electric Circuits and Components
Lecture 4 - Semiconductor Electronics
Lecture 5 - Application of Transistors
Lecture 6 - Sensors Performance Terminology
Lecture 7 - Displacement, Position and Proximity Sensors - I
Lecture 8 - Displacement, Position and Proximity Sensors - II
Lecture 9 - Force, Fluid Flow Sensors
Lecture 10 - Acceleration and Vibration Measurement Sensors
Lecture 11 - Mechanical Actuation Systems
Lecture 12 - Hydraulic and Pneumatic Actuators
Lecture 13 - Electrical Actuation Systems - I
Lecture 14 - Electrical Actuation Systems - II
Lecture 15 - Data Presentation Systems
Lecture 16 - Introduction to Signal Conditioning and Op-Amp
Lecture 17 - OP-AMP As Signal Conditioner
Lecture 18 - Analogue To Digital Converters
Lecture 19 - Digital To Analogue Converters
Lecture 20 - Artificial Intelligence
Lecture 21 - Digital Circuits - I
Lecture 22 - Digital Circuits - II
Lecture 23 - Microprocessor
Lecture 24 - Microcontroller
Lecture 25 - Microcontroller Programming Example
Lecture 26 - Mechanical System Model
Lecture 27 - Electrical System Model
Lecture 28 - Fluid System Model
Lecture 29 - Dynamic Response of Systems

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- Lecture 30 - Transfer Function and Frequency Response
- Lecture 31 - Controllers
- Lecture 32 - Digital Controllers
- Lecture 33 - Program Logic Controllers
- Lecture 34 - Input, output and Communication systems
- Lecture 35 - Fault Finding
- Lecture 36 - Project using Microcontroller - ATMEGA16
- Lecture 37 - Myoelectrically Controlled Robotic Arm
- Lecture 38 - ABU Robocon 2019 - Part I
- Lecture 39 - ABU Robocon 2019 - Part II
- Lecture 40 - Design of a Legged Robot