

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

NPTEL Video Course - Electrical Engineering - NOC:Design for Internet of Things (2021)

Subject Co-ordinator - Prof. T V Prabhakar

Co-ordinating Institute - IISc - Bangalore

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

Lecture 1 - Introduction and Definition of IoT
Lecture 2 - Location, Applications, and Power
Lecture 3 - Challenges - Part 1
Lecture 4 - Challenges - Part 2
Lecture 5 - Challenges - Part 3
Lecture 6 - Challenges - Part 4
Lecture 7 - Unique ID
Lecture 8 - Introduction to RFID
Lecture 9 - RFID DEMO
Lecture 10 - RFID Theory - 1
Lecture 11 - RFID Theory - 2
Lecture 12 - RFID Theory - 3
Lecture 13 - Energy harvesting - 1
Lecture 14 - Energy harvesting - 2
Lecture 15 - Energy harvesting - 3
Lecture 16 - Power management systems - 1
Lecture 17 - Power management systems - 2
Lecture 18 - Battery life calculation
Lecture 19 - Introduction to System Design for low power
Lecture 20 - LDO - 1
Lecture 21 - LDO - 2
Lecture 22 - LDO - 3
Lecture 23 - Buck converter - 1
Lecture 24 - Buck converter - 2
Lecture 25 - Lab experiment
Lecture 26 - Introduction to Sensors and Actuators
Lecture 27 - Sensors
Lecture 28 - Actuators
Lecture 29 - Case study on Sensing and Actuation

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- Lecture 30 - Introduction to low power software
- Lecture 31 - ADC driver design and development
- Lecture 32 - Power optimization
- Lecture 33 - Introduction to protocols
- Lecture 34 - MQTT - 1
- Lecture 35 - MQTT - 2
- Lecture 36 - COAP - 1
- Lecture 37 - COAP - 2
- Lecture 38 - Websockets
- Lecture 39 - Introduction to low power wireless - 1
- Lecture 40 - Introduction to low power wireless - 2
- Lecture 41 - Bluetooth low energy (BLE) - 1
- Lecture 42 - Bluetooth low energy (BLE) - 2
- Lecture 43 - IEEE 802.15.4e - 1
- Lecture 44 - IEEE 802.15.4e - 2
- Lecture 45 - IEEE 802.15.4e - 3
- Lecture 46 - Wi-Fi
- Lecture 47 - Introduction to Wide area technologies
- Lecture 48 - LoRa - 1
- Lecture 49 - LoRa - 2
- Lecture 50 - NBIoT, LTEM1
- Lecture 51 - BLE mesh technology
- Lecture 52 - Course conclusion