

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

NPTEL Video Course - Computer Science and Engineering - NOC:Embedded System Design with ARM

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Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction To Embedded Systems
Lecture 2 - Design Considerations of Embedded Systems
Lecture 3 - Microprocessors and Microcontrollers
Lecture 4 - Architecture of ARM Microcontroller - Part 1
Lecture 5 - Architecture of ARM Microcontroller - Part 2
Lecture 6 - Architecture of ARM Microcontroller - Part 3
Lecture 7 - ARM Instruction Set - Part 1
Lecture 8 - ARM Instruction Set - Part 2
Lecture 9 - ARM Instruction Set - Part 3
Lecture 10 - About the STM32F401 Nucleo Board
Lecture 11 - PWM and Interrupt on STM32F401
Lecture 12 - Digital to Analog Conversion
Lecture 13 - Analog to Digital Conversion - Part 1
Lecture 14 - Analog to Digital Conversion - Part 2
Lecture 15 - Output Devices, Sensors and Actuators - Part 1
Lecture 16 - Output Devices, Sensors and Actuators - Part 2
Lecture 17 - Output Devices, Sensors and Actuators - Part 3
Lecture 18 - Microcontroller Development Boards
Lecture 19 - Mbed C Programming Environment
Lecture 20 - Interfacing With STM32F401 Board
Lecture 21 - Interfacing With Arduino Uno
Lecture 22 - Interfacing 7-Segment Led And LCD Displays - Part 1
Lecture 23 - Interfacing 7-segment LED and LCD Displays - Part 2
Lecture 24 - Serial Port Terminal Application (Coolterm)
Lecture 25 - Experiment With Temperature Sensor
Lecture 26 - Experiment With Ldr Light Sensor - Part 1
Lecture 27 - Experiment With Ldr Light Sensor - Part 2
Lecture 28 - Experiment With Speaker
Lecture 29 - Experiment With Microphone

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- Lecture 30 - Design Of Control System
- Lecture 31 - Experiments With Relay
- Lecture 32 - Experiments On Speed Control Of Dc Motor
- Lecture 33 - Experiment With Multiple Sensors And Relay
- Lecture 34 - Introduction To Internet Of Things
- Lecture 35 - Gsm And Bluetooth
- Lecture 36 - Design Of A Home Automation System
- Lecture 37 - Design Of A Simple Alarm System Using Touch Sensor
- Lecture 38 - Accelerometer
- Lecture 39 - Experiment Using Accelerometer
- Lecture 40 - Experiment Using Bluetooth
- Lecture 41 - Experiment With Gas Sensor
- Lecture 42 - Summarization Of The Course