

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

NPTEL Video Course - Electrical Engineering - NOC:Introduction to Embedded System Design

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Co-ordinating Institute - IIT - Jammu

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

Lecture 1 - Introduction
Lecture 2 - Introduction continued with Project demos
Lecture 3 - Modular Approach to ESD
Lecture 4 - Modular Approach to ESD (Continued...)
Lecture 5 - Salient Features of Modern Microcontrollers
Lecture 6 - Salient Features of Modern Microcontrollers (Continued...)
Lecture 7 - Elements of Microcontroller Ecosystem
Lecture 8 - Elements of Microcontroller Ecosystem (Continued...)
Lecture 9 - Power Supply for Embedded Systems
Lecture 10 - Power Supply for Embedded Systems (Continued...)
Lecture 11 - Introduction to MSP430
Lecture 12 - MSP430 Architecture
Lecture 13 - MSP430 Architecture- (Continued...) And Introduction to Lunchbox
Lecture 14 - Programming Methods for MSP430
Lecture 15 - Physical Interfacing - 1
Lecture 16 - Physical Interfacing - 2
Lecture 17 - Physical Interfacing - 3
Lecture 18 - Physical Interfacing - 4
Lecture 19 - Physical Interfacing - 5
Lecture 20 - Physical Interfacing - 6
Lecture 21 - GIT, CCS Installation and Embedded C
Lecture 22 - MSP430 Digital I/O
Lecture 23 - MSP430 Digital I/O
Lecture 24 - MSP430 Clock System and Reset
Lecture 25 - Interrupts in MSP430
Lecture 26 - Interrupts in MSP430 (Continued...)
Lecture 27 - Interfacing Seven Segment Displays with MSP430; Low Power Modes in MSP430
Lecture 28 - Interfacing Liquid Crystal Displays (LCD)
Lecture 29 - MSP430 Timer Module

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- Lecture 30 - Pulse Width Modulation, PWM using Timer Capture
- Lecture 31 - Analog to Digital Converter in the MSP430
- Lecture 32 - ADC and DAC using R2R Ladder and Random number generation using LFSR
- Lecture 33 - Serial Communication Protocols, USCI Module in MSP430
- Lecture 34 - MSP430 Timer in Capture Mode
- Lecture 35 - Coding Ninja
- Lecture 36 - Building an Electronics Project
- Lecture 37 - Circuit Prototyping Techniques
- Lecture 38 - Single Purpose Computers
- Lecture 39 - Single Purpose Computers (Continued...)
- Lecture 40 - Recap of Course Coverage and Project Demonstration from Concept to Final