

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

NPTEL Video Course - Computer Science and Engineering - NOC:Embedded Systems Design

Subject Co-ordinator - Prof. Anupam Basu

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction
Lecture 2 - Processors
Lecture 3 - General Purpose and ASIPs Processor
Lecture 4 - Designing a Single Purpose Processor
Lecture 5 - Optimization Issues
Lecture 6 - Introduction to FPPFA
Lecture 7 - FPGA (Continued...)
Lecture 8 - Behaviour Synthesis on FPGA using VHDL
Lecture 9 - Tutorial - I
Lecture 10 - Tutorial - II
Lecture 11 - Tutorial - III
Lecture 12 - Tutorial - IV
Lecture 13 - Sensors and Signals
Lecture 14 - Discretization of Signals and A/D Converter
Lecture 15 - Quantization Noise, SNR and D/A Converter
Lecture 16 - Arduino Uno
Lecture 17 - Arduino Uno (Continued...), Serial Communication and Timer
Lecture 18 - Controller Design using Arduino
Lecture 19 - Tutorial - V
Lecture 20 - Power Aware Embedded System - I
Lecture 21 - Power Aware Embedded System - II
Lecture 22 - SD and DD Algorithm
Lecture 23 - Parallel Operations and VLIW
Lecture 24 - Code Efficiency
Lecture 25 - DSP Application and Address Generation Unit
Lecture 26 - Real Time O.S - I
Lecture 27 - Real Time O.S - II
Lecture 28 - RMS Algorithm
Lecture 29 - EDF Algorithm and Resource Constraint Issue

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- Lecture 30 - Priority Inversion and Priority Inheritance Protocol
- Lecture 31 - Modeling and Specification - I
- Lecture 32 - Modeling and Specification - II
- Lecture 33 - FSM and Statechart
- Lecture 34 - Statechart and State Machine Semantics
- Lecture 35 - Statecharts (Continued...)
- Lecture 36 - Program State Machines
- Lecture 37 - SDL
- Lecture 38 - Data Flow Model - I
- Lecture 39 - Data Flow Model - II
- Lecture 40 - Hardware Synthesis - I
- Lecture 41 - Hardware Synthesis - II
- Lecture 42 - Scheduling
- Lecture 43 - Digital Camera Design
- Lecture 44 - Digital Camera - Iterative Design
- Lecture 45 - HW-SW Partitioning
- Lecture 46 - Optimization - I
- Lecture 47 - Optimization - II
- Lecture 48 - Simulation
- Lecture 49 - Formal Verification