

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

NPTEL Video Course - Electronics and Communication Engineering - Digital Circuits and Systems

Subject Co-ordinator - Prof. S. Srinivasan

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction To Digital Circuits
Lecture 2 - Introduction To Digital Circuits
Lecture 3 - Combinational Logic Basics
Lecture 4 - Combinational Circuits
Lecture 5 - Logic Simplification
Lecture 6 - Karnaugh Maps And Implicants
Lecture 7 - Logic Minimization Using Karnaugh Maps
Lecture 8 - Karnaugh Map Minimization Using Maxterms
Lecture 9 - Code Converters
Lecture 10 - Parity Generators And Display Decoder
Lecture 11 - Arithmetic Circuits
Lecture 12 - Carry Look Ahead Adders
Lecture 13 - Subtractors
Lecture 14 - 2's Complement Subtractor and BCD Adder
Lecture 15 - Array Multiplier
Lecture 16 - Introduction to Sequential Circuits
Lecture 17 - S-R, J-K and D Flip Flops
Lecture 18 - J-K and T Flip Flops
Lecture 19 - Triggering Mechanisms of Flip Flops and Counters
Lecture 20 - Up/Down Counters
Lecture 21 - Shift Registers
Lecture 22 - Application of shift Registers
Lecture 23 - State Machines
Lecture 24 - Design of Synchronous Sequential Circuits
Lecture 25 - Design using J-K Flip Flop
Lecture 26 - Mealy and Moore Circuits
Lecture 27 - Pattern Detector
Lecture 28 - MSI and LSI Based Design
Lecture 29 - Multiplexer Based Design

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- Lecture 30 - Encoders and Decoders
- Lecture 31 - Programmable Logic Devices
- Lecture 32 - Design using Programmable Logic Devices
- Lecture 33 - Design using Programmable Logic Devices (Continued)
- Lecture 34 - MSI and LSI based Implementation of Sequential Circuits
- Lecture 35 - MSI and LSI based Implementation of Sequential Circuits (Continued)
- Lecture 36 - Design of circuits using MSI sequential blocks
- Lecture 37 - System Design Example
- Lecture 38 - System Design Example (Continued)
- Lecture 39 - System Design using the concept of controllers
- Lecture 40 - System Design using the concept of controllers (Continued)