

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

NPTEL Video Course - Electrical Engineering - NOC:Microprocessors and Interfacing

Subject Co-ordinator - Prof. Shaik Rafi Ahamed

Co-ordinating Institute - IIT - Guwahati

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

Lecture 1 - Microprocessor Operations
Lecture 2 - 8086 Flags
Lecture 3 - Functional Diagram of 8086
Lecture 4 - 8086 Common and Minimum Mode Signals
Lecture 5 - 8086 Maximum Mode Signals
Lecture 6 - 8086 Data Transfer Instructions
Lecture 7 - 8086 Arithmetic Instructions - I
Lecture 8 - 8086 Arithmetic Instructions - II
Lecture 9 - 8086 Logical Instructions
Lecture 10 - 8086 Branch and String Instructions
Lecture 11 - 8086 Interrupt and Machine Control Instructions
Lecture 12 - Sum of Products, Multi-byte addition
Lecture 13 - Largest number, 2's complement Programs
Lecture 14 - Programs on Subroutines
Lecture 15 - ROM, RAM
Lecture 16 - Example I
Lecture 17 - Example II
Lecture 18 - Architecture, Interfacing to Simple I/O
Lecture 19 - Keyboard Interface
Lecture 20 - 7-segment Display Interface
Lecture 21 - Multiplexed 7-segment Display Interface
Lecture 22 - Stepper motor, Liquid level control
Lecture 23 - Traffic light control, A/D converter
Lecture 24 - D/A converter
Lecture 25 - Electronic weighing machine
Lecture 26 - Programmable Interval Timer (8254)
Lecture 27 - Modes of 8254
Lecture 28 - Architecture of 8259
Lecture 29 - Initialization command words of 8259

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- Lecture 30 - Operational command words of 8259
- Lecture 31 - 8237 Architecture, interfacing and Programming
- Lecture 32 - Basic Concepts of serial I/O
- Lecture 33 - Basic Concepts of serial I/O (Continued...)
- Lecture 34 - Architecture of 8251