NPTEL Video Course - Computer Science and Engineering - Data Communication

Subject Co-ordinator - Prof. Ajit Pal

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction and Course Outline - Data Communication
Lecture 2 - Layered Architecture
Lecture 3 - Data and Signal
Lecture 4 - Transmission Impairments and Channel Capacity
Lecture 5 - Guided Transmission Media
Lecture 6 - Unguided Media
Lecture 7 - Transmission of Digital Signal - I
Lecture 8 - Transmission of Digital Signal - II
Lecture 9 - Transmission of Analog Signal - I
Lecture 10 - Transmission of Analog Signal - II
Lecture 11 - Multiplexing
Lecture 12 - Multiplexing
Lecture 13 - Multiplexing Applications - I
Lecture 14 - Multiplexing Applications - II
Lecture 15 - Interfacing to the Media
Lecture 16 - Error Detection and Correction
Lecture 17 - Flow and Error Control
Lecture 18 - Data Link Control
Lecture 19 - Switching Techniques Circuit Switching
Lecture 20 - Switching Techniques Packet Switching
Lecture 21 - Routing - I
Lecture 22 - Routing - II
Lecture 23 - Congestion Control
Lecture 24 - X.25 and Frame Relay
Lecture 25 - ATM
Lecture 26 - Medium Access Control - I
Lecture 27 - Medium Access Control - II
Lecture 28 - Medium Access Control - III
Lecture 29 - IEEE 802 LANs

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Lecture 30 - High Speed LANs
Lecture 31 - Wireless LANs
Lecture 32 - Cellular Telephone Systems
Lecture 33 - Satellite Communications
Lecture 34 - Internet and Internetworking
Lecture 35 - TCP/IP - I
Lecture 36 - TCP/IP - II
Lecture 37 - Multimedia Networks
Lecture 38 - Audio and Video Compression
Lecture 39 - Multimedia Services
Lecture 40 - Secured Communication - I
Lecture 41 - Secured Communication - II
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