

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

NPTEL Video Course - Computer Science and Engineering - NOC:Computer Networks and Internet Protocol

Subject Co-ordinator - Prof. Sandip Chakraborty, Prof. Soumya Kanti Ghosh

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction to Computer Networks - A brief history
- Lecture 2 - Data Networks - from Circuit Switching Network to Packet Switching Network
- Lecture 3 - Network Protocol Stack
- Lecture 4 - Services at the Different Layers of the Protocol Stack
- Lecture 5 - Application Layer I - Different Protocols at the Application Layer
- Lecture 6 - Application Layer II - Domain Name Systems
- Lecture 7 - Application Layer III - The Web
- Lecture 8 - Application Layer III - Hypertext Transfer Protocol
- Lecture 9 - Application Layer III - Internet Mail Transfer
- Lecture 10 - Application Layer IV - File Transfer (FTP)
- Lecture 11 - Transport Layer I - Services
- Lecture 12 - Transport Layer II - Connection
- Lecture 13 - Transport Layer II - Connection (Continued...)
- Lecture 14 - Transport Layer IV - Reliability
- Lecture 15 - Transport Layer V - Sliding Window Protocols
- Lecture 16 - Transport Layer Performance
- Lecture 17 - Buffer Management and Congestion Control
- Lecture 18 - Transport Layer Primitives
- Lecture 19 - Transmission Control Protocol I - Basics
- Lecture 20 - Transmission Control Protocol II - Connections
- Lecture 21 - Transmission Control Protocol III - Flow Control
- Lecture 22 - Transmission Control Protocol IV - Congestion Control
- Lecture 23 - User Datagram Protocol
- Lecture 24 - Socket Programming - I
- Lecture 25 - Socket Programming - II
- Lecture 26 - Network Layer I - Introduction
- Lecture 27 - IP Addressing (IPv4) I - Classful addressing
- Lecture 28 - IP Addressing (IPv4) II - CIDR
- Lecture 29 - IP Addressing (IPv4) III - Network Address Translation (NAT)

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- Lecture 30 - IPv6 Addressing
- Lecture 31 - Internet QoS - I (What is QoS)
- Lecture 32 - Internet QoS - II (Basic QoS Architecture)
- Lecture 33 - Internet QoS - III (Traffic Policing and Traffic Shaping)
- Lecture 34 - Internet QoS - IV (Traffic Scheduling)
- Lecture 35 - Internet QoS - V (Integrated and Differentiated Service Architecture)
- Lecture 36 - IP Routing Table
- Lecture 37 - Routing in the Internet I - Intra-domain routing
- Lecture 38 - Routing in the Internet II - Routing protocols
- Lecture 39 - Routing in the Internet III - Inter-domain Routing
- Lecture 40 - Routing in the Internet IV - Border Gateway Protocol
- Lecture 41 - IP Routers
- Lecture 42 - IP Routers Demo
- Lecture 43 - Software Defined Networking - I (Basics)
- Lecture 44 - Software Defined Networking - II (Open Flow)
- Lecture 45 - Software Defined Networking - III (Demo)
- Lecture 46 - Data Link Layer - Overview
- Lecture 47 - Data Link Layer - Basic Concepts
- Lecture 48 - Data Link Layer - Ethernet
- Lecture 49 - Data Link Layer - Ethernet (Continued...)
- Lecture 50 - Data Link Layer - Flow and Error Control
- Lecture 51 - ARP-RAPP-BOOTP-DHCP
- Lecture 52 - ARP-RAPP-BOOTP-DHCP (Continued...)
- Lecture 53
- Lecture 54 - Wireless LANs
- Lecture 55 - Layer 1
- Lecture 56 - Layer 1
- Lecture 57 - Layer 1
- Lecture 58 - Network Security - Overview
- Lecture 59 - Network Security - II
- Lecture 60 - Network Security - III [TCP/IP Security]