

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

NPTEL Video Course - Computer Science and Engineering - NOC:Demystifying Networking

Subject Co-ordinator - Prof.Sridhar Iyer

Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - Introduction
Lecture 2 - Analogy for CEO's Problem
Lecture 3 - Discussing the CEO's Problem
Lecture 4 - From the CEO's Company to Layers in a Network
Lecture 5 - Layers in Detail
Lecture 6 - Layered Nature of a Network
Lecture 7 - Introduction to Internet Data Capturing using Wireshark
Lecture 8 - Network data captured while requesting a website
Lecture 9 - What is Cisco Packet Tracer
Lecture 10 - Modes of Cisco Packet Tracer
Lecture 11 - Getting Cisco Packet Tracer
Lecture 12 - Logical and Physical Typologies in Cisco Packet Tracer
Lecture 13 - Devices on Cisco Packet Tracer
Lecture 14 - Introduction to the Cisco Packet Tracer Activity for Week 1
Lecture 15 - Introduction to the campus network on Cisco Packet Tracer
Lecture 16 - Loading the page in Simulation Mode
Lecture 17 - Inspecting the packets in Simulation Mode
Lecture 18 - Editing the dummy website on Cisco Packet Tracer
Lecture 19 - Summary of the Cisco Packet Tracer Activity
Lecture 20 - Introduction to Anupam's Adventure
Lecture 21 - Anupam's adventure brings us to IP Addressing
Lecture 22 - Addressing at various layers
Lecture 23 - IP Addresses
Lecture 24 - Address Translation
Lecture 25 - Introduction to IP Addressing
Lecture 26 - Creating a network with Sub-net mask
Lecture 27 - Nomenclature of a sub-net mask
Lecture 28 - Network addresses and Private networks
Lecture 29 - Introduction to the Addressing Topology

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

www.digimat.in

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

- Lecture 30 - Addressing a local network and DHCP
- Lecture 31 - Addressing a local network manually
- Lecture 32 - Addressing in Public and Private Networks
- Lecture 33 - Verifying Connectivity using Ping
- Lecture 34 - Using network address translation to communicate on internet
- Lecture 35 - Using Sub nets and Summary of addressing
- Lecture 36 - Summary of the week
- Lecture 37 - Analogy for the week 2
- Lecture 38 - Discussion on dabbawala analogy
- Lecture 39 - From dabbawalas to routers and switches
- Lecture 40 - What is routing ?
- Lecture 41 - Static routing in a router in CPT
- Lecture 42 - How does a switch forwards packets CPT
- Lecture 43 - How to add static route in a router? (CPT)
- Lecture 44 - Traveler's dilemma
- Lecture 45 - Discussing the Traveler's dilemma
- Lecture 46 - From Traveler's dilemma to Dynamic Routing
- Lecture 47 - Dynamic Routing with Distance Vector
- Lecture 48 - Distance Vector Routing in Detail
- Lecture 49 - Dynamic Routing with Link State
- Lecture 50 - Setting up dynamic routing in Packet Tracer
- Lecture 51 - Summary of the week
- Lecture 52 - Introduction to analogy for week 3
- Lecture 53 - Analogy for week 3
- Lecture 54 - Questions on analogy for week 3
- Lecture 55 - Understanding the new order requirements
- Lecture 56 - Introduction to Transport Layer
- Lecture 57 - Introduction to TCP
- Lecture 58 - Introduction to UDP
- Lecture 59 - Exploring UDP on Cisco Packet Tracer
- Lecture 60 - TCP Connection Establishment
- Lecture 61 - TCP Connection Closure
- Lecture 62 - Summary of TCP and UDP on Cisco Packet Tracer
- Lecture 63 - The story of the delivery fiasco
- Lecture 64 - From delivery fiasco to Port Numbers
- Lecture 65 - Application Layer in depth
- Lecture 66 - Port number in Wireshark
- Lecture 67 - Summary of port number and PAT
- Lecture 68 - Summary of the entire TCP IP stack

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

www.digimat.in

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

Lecture 69 - Introducing the analogy for week 4
Lecture 70 - The secret box
Lecture 71 - Questions on analogy for week 4
Lecture 72 - Secret of the secret box
Lecture 73 - From secret box to encryption
Lecture 74 - Introduction to security and CIA
Lecture 75 - Information Security and Defence in Depth
Lecture 76 - Information Classification and Access Control
Lecture 77 - Process Management
Lecture 78 - Introduction to Network Security
Lecture 79 - Network Breach and Countermeasures
Lecture 80 - Internet Security
Lecture 81 - Securing the Internet Usage
Lecture 82 - Internet Security Products
Lecture 83 - Personal Computing Device Recommendations
Lecture 84 - Responsible Behavior on the Internet
Lecture 85 - Best practices for home Network and Media Devices
Lecture 86 - Closing thoughts on security
Lecture 87 - The story of a family trip
Lecture 88 - The troubleshooting approach
Lecture 89 - Troubleshooting Physical and Data Link Layers
Lecture 90 - Troubleshooting Network Layer
Lecture 91 - Troubleshooting Transport and Application Layers
Lecture 92 - Troubleshooting Summary
Lecture 93 - Troubleshooting Heuristics
Lecture 94 - Troubleshooting Challenge - 1
Lecture 95 - Troubleshooting challenge - 2
Lecture 96 - Troubleshooting Challenge - 3
Lecture 97 - That's How we Troubleshoot
Lecture 98 - Week Summary
Lecture 99 - Course Closure
Lecture 100 - Course Credits