

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

NPTEL Video Course - Computer Science and Engineering - NOC:Information Security-IV

Subject Co-ordinator - Prof.M J Shankar Raman, Prof. V. Kamakoti, Prof.Vasan

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - WISE Gen and The IT Revolution - 1
- Lecture 2 - WISE Gen and The IT Revolution - 1 (Continued...)
- Lecture 3 - WISE GEN - Next Step
- Lecture 4 - Network Security
- Lecture 5 - Symmetric Key Cryptography and Digital Signatures
- Lecture 6 - Basic Network Security Components
- Lecture 7 - Internet Security Threats
- Lecture 8 - History of Kali Linux
- Lecture 9 - Penetration Testing with Kali Linux
- Lecture 10 - Network Security and Forensics Introduction - I
- Lecture 11 - Network Security and Forensics Introduction - II
- Lecture 12 - Penetration Testing
- Lecture 13 - Penetration testing steps in Kali Linux
- Lecture 14 - Kali Linux Installation
- Lecture 15 - Reconnaissance - Part I
- Lecture 16 - Reconnaissance - Part II
- Lecture 17 - Serverside Attacks
- Lecture 18 - Serverside Attacks
- Lecture 19 - Serverside Attacks
- Lecture 20 - Serverside Attacks
- Lecture 21 - Serverside Attacks
- Lecture 22 - Serverside Attacks
- Lecture 23 - Client Side Attacks - Tools in Kali Linux - 1
- Lecture 24 - Client Side Attacks - Tools in Kali Linux - 2
- Lecture 25 - Client Side Attacks - Tools in Kali Linux - 3
- Lecture 26 - Client Side Attacks - Tools in Kali Linux - 4
- Lecture 27 - Authentication Based Attacks - Tools in Kali Linux - 1
- Lecture 28 - Authentication Based Attacks - Tools in Kali Linux - 2
- Lecture 29 - Authentication Based Attacks - Tools in Kali Linux - 3

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- Lecture 30 - Authentication Based Attacks - Tools in Kali Linux - 4
- Lecture 31 - Authentication Based Attacks - Tools in Kali Linux - 5
- Lecture 32 - Web Attacks - Tools in Kali Linux - 1
- Lecture 33 - Web Attacks - Tools in Kali Linux - 2
- Lecture 34 - Penetration Testing Attacks - Defensive Countermeasures
- Lecture 35 - Technical Fundamentals for Evidence Acquisition - 1
- Lecture 36 - Technical Fundamentals for Evidence Acquisition - 2
- Lecture 37 - Packet Capture Tools and Methods
- Lecture 38 - Wireshark Introduction
- Lecture 39 - Packet Analysis
- Lecture 40 - Flow Analysis
- Lecture 41 - Case study 1
- Lecture 42 - Case study 1 (Continued...)
- Lecture 43 - Wireless Forensics - Technology
- Lecture 44 - Wireless Network Security Framework
- Lecture 45 - Wireless Access Points - Security issues
- Lecture 46 - Case Study 2 - Use of tools
- Lecture 47 - Network Security Devices - IDS
- Lecture 48 - IDS Evidence Acquisition and SNORT
- Lecture 49 - SNORT Rules
- Lecture 50 - SNORT Installation
- Lecture 51 - SNORT Configuration and Demonstration
- Lecture 52 - Evidence collection in Switches and Routers
- Lecture 53 - Evidence collection in Routers and Firewalls
- Lecture 54 - IPTables rules and tool usage
- Lecture 55 - Logs, Rules and Automated Tools
- Lecture 56 - Re-cap of All Topics
- Lecture 57 - Introduction to Meltdown Attack
- Lecture 58 - Introduction to Meltdown - Address Space Basics
- Lecture 59 - Meltdown Attack - Out of Order Execution
- Lecture 60 - Meltdown Attack - Recovering from Exception