

# Network Management & Ethical Hacking with Web Development with Android & Core Java



## Highlights

- Course Duration - 80 hours
- 100% hands-on lab exercises
- Regular time bound tests
- Emphasis on group work & group test
- Hacking - Countermeasures
- Cyber Crime Cases - Countermeasures
- T10(Ten Minutes Ten Marks) - Tests your speed & knowledge

## Network Management

- Introduction to Networking and Network Management
- Structured Cabling
- Introduction to TCP/IP, subnetting, VLSM & troubleshooting TCP/IP
- Routing (Static & Dynamic - RIP, OSPF)
- Router Configuration

## Core Java

- including Exception Handling, Collections, Multi Threading

## Understanding the Operation System

- The Android System Architecture

## Network Management(contd.)

- VLAN Configuration
- NAT & PAT Configuration
- Access Control List - Firewall Rules
- Basic Unix Concepts
- Commands and Utilities
- KDE(Linux)
- Networking with Linux(with installation)
- Telnet Configuration
- User Administration
- File Systems Management
- Disk Quota & Partitioning
- FTP Configuration
- DNS Configuration
- Apache Web Server Configuration
- Live DNS, Web Server & FTP Configuration
- DHCP Configuration

## Android Environment Setup

- IDE, SDK, JDK, ADT and AVD

## Anatomy of Android Application

## Network Management(contd.)

- Samba Configuration
- NFS Configuration
- Configuring Sendmail
- Squid Proxy Server Configuration
- Firewall Services
- Shell Programming
- Project

## Hacking & Countermeasures

- Footprinting
- Scanning
- Trojans
- Steganography
- Sniffers
- Denial of Service
- DNS Poisoning
- Session Hijacking
- Phishing
- Fake Mail & more

## Android Resources

## Understanding Android Application Components

## Android User Interface

- Layouts and Widgets

## Web Development

- PHP & OO-PHP
- Bootstrap
- Javascript Validations & CSS
- MySQL - Open Community Database
- Database CRUD Operations
- MVC Framework
- Session Management
- SQL Injection Prevention
- Search Engine Optimisation (SEO)

## Cyber Crime

- Cyber Crime Cases in India
- Counter Measures
- Indian IT Act

## Hands-on Android

- Hands-on application

## Application Security

- Security Loopholes
- Counter Measures