

(2) Vocational Training in IP Networking & Cyber Security.
Eligibility: B.Tech (2nd,3rd/Final year)/M.Tech Students of CSE/IT/ECE
Duration: 4 weeks.

Total Sessions: Lecture Sessions-16 nos. +Lab Session-13 nos (1 Session=1.5 hrs.)
Course Fees: Rs. (225.00x16+300.00x13) =Rs. Rs.7500.00+Service Tax
Topics covered:-

Theory Session:

1. Networking Concept, TCP/IP Model, Network Architecture and Topology, Networking Components: 3.0 hrs.
2. IPv4 Addressing, Sub netting, Super netting, VLSM: 4.5hrs.
3. IPv6 Addressing: 1.5 hrs.
4. LAN: 1.5 hrs.
5. VLAN Principle: 1.5 hrs.
6. Routing Principle, Routing Architecture & Routing Protocols: 4.5 hrs.
7. Wireless LAN: 1.5 hrs.
8. DHCP Server: 1.5 hrs.
9. DNS Concept: 1.5 hrs.
10. Information Security Concept: 1.5hrs.
11. Firewall Concept: 1.5 hrs.

Lab Session:

1. Identification of Network Components: 1.5hrs.
2. IP Calculation using Tools, Assigning IP Address, Checking IP Address: 1.5 hrs.
3. LAN Setup and Troubleshooting: 1.5 hrs.
4. VLAN Configuration in Switch: 3.0hrs.
5. Basic Configuration of Router: 1.5 hrs.
6. Configuration of Static and Dynamic Routing: 3.0 hrs.
7. Wi-Fi Configuration: 1.5 hrs.
8. DHCP Service Configuration: 1.5 hrs.
9. Configuration of DNS Server: 1.5 hrs.
10. Analysing Security of Host using Tools: 1.5 hrs
11. Implementing Security using Firewall: 1.5 hrs.

Put up for kind consideration and approval please.

Phoh 31/03/2015
DE (Trans)/NSCBTTC