ITNET-101: Network Communications

Course Description:

Network Communications provides an introduction to networking technologies and provides good background material for students interested in preparing for CompTIA's broad-based, vendor-independent networking certification exam, Network+. This course covers a wide range of material about networking such as LAN components, OSI model and standards organizations, transmission media, topologies, protocols (such as TCP/IP), interconnecting devices, wide area networks and security. Through some hands-on exercises, demonstration and discussion, students will develop an understanding of what is involved in basic network design, network management, security and troubleshooting.

Total Credits: 3.00

Course Competencies

1. Differentiate between various network topologies
2. Describe various network media
3. Distinguish major network physical components
4. Communicate the differences between various wireless technologies
5. Articulate the functions of the 7 layers of the OSI Model
6. Differentiate between various protocols used in the TCP/IP suite
7. Identify the application of various network protocols
8. Differentiate between the internet, extranets and intranets
9. Articulate the characteristics of fault tolerance
10. Troubleshoot a SOHO (Small Office/Home Office) network
11. Articulate the characteristics of Cloud Computing and Remote Access
12. Articulate IPv4 and IPv6 segmentation and subnetting
13. Differentiate the differences between LANs and WANs