Syllabus

Course Title	INTRO TO COMPUTER NETWORKS

I. **Textbook:**

Tamara Dean, Network+ Guide to Networks, 5 th Edition. Course Technology

Cengage Learning, 2010, ISBN-13: 9781423902454

II. **Course Objectives:**

The ability to install, configure, and troubleshoot computer networks is a highly

marketable and exciting skill. This course first introduces the fundamental elements that

form a modern network, such as protocols, topologies, network hardware, and

operating systems. It then provides in-depth coverage of the most important concepts in

contemporary networks, such as TCP/IP, Ethernet, wireless transmission, and security.

The course will prepare you to select the best network design, hardware, and software

for your environment. You will also gain the necessary skills to create a network from

scratch and maintain, upgrade, and troubleshoot an existing network.

III. **Specific Course Topics:**

2. An introduction to networking

3. Networking standards and OSI model

4. Transmission basics and networking media

5. Introduction to TCP/IP protocols

6. Ethernet topologies and standards

7. Network hardware

8. WAN and remote connectivity

9. Wireless network

10. Network operating systems

11. Deep TCP/IP networking

12. Voice and video over IP

13. Internet Security

14. Troubleshooting network issues

15. Guarantee integrity and availability Network management.

IV. Course Plan:

● An Introduction to Networking

● Networking Standards and

● the OSI Model

● Transmission Basics and

● Networking Media

● Introduction to TCP/IP Protocols

● Topologies and Ethernet Standards

● Network Hardware

● WANs and Remote Connectivity

● Wireless Networking

● Network Operating Systems Voice and Video Over IP

● In -Depth TCP/IP Networking

● Network Security

● Troubleshooting Network Problems

● Ensuring Integrity and Availability

● Read Chapter 14 by the end of week.

● Study for Cumulative Final