



(A Venture of Chandigarh ETC Services Pvt. Ltd.)

An ISO 9001:2015 Certified Organisation with Completely Online Management System

Website : www.citcchandigarh.com

Course Syllabus: Certificate in Network Routing & Switching

Batch Name: NRS

Eligibility: 12th

Course Start: 1st of Every Month

Course Duration: 60 Hours

Courses / Modules Paper

Module 1

Paper 1
Network Routing & Switching

Module 1 Paper 1: Network Routing & Switching

1: Computer Networks

- 1.1 Introduction
- 1.2 Features
- 1.3 Architecture
- 1.4 Components of Networks
- 1.5 Computer Network Types
- 1.6 Topologies
- 1.7 Transmission Modes

2: Network Routing

- 2.1 Introduction
- 2.2 Routing Metrics & Costs
- 2.3 Types of Routing
 - Static Routing
 - Default Routing
 - Dynamic Routing

3: Routing Algorithms

- 3.1 Introduction
- 3.2 Classification of Routing Algorithms
 - Adaptive Routing Algo
 - Non-Adaptive Routing algo
- 3.3 Difference b/w Adaptive & Non-Adaptive
- 3.4 Distance vector Routing Algo
 - Distributed
 - Iterative
 - Asynchronous
- 3.5 Working of Distance Vector Algo
- 3.6 Routing Tables
- 3.7 Link State Routing
 - Reliable Flooding
 - Route Calculation

4: Network Switching

- 4.1 Introduction
- 4.2 What is Switching
- 4.3 Role in Network
- 4.4 Advantages & Disadvantages

5: Switching Techniques

- 5.1 Introduction
- 5.2 Types of Switching Techniques
 - Circuit Switching
 - Packet Switching
 - Message Switching