

**Course Title: Fundamentals of E-Commerce**

**Course no: CSC-356**

**Credit hours: 3**

**Full Marks: 70+10+20**

**Pass Marks: 28+4+8**

**Nature of course:** Theory (3 Hrs.)

**Course Synopsis:** Discussion on types of commerce, doing business in electronics, infrastructure of electronic commerce.

**Goal:** This course introduces basic concept of commerce and discusses the basic needs of electronic commerce.

**Course Contents:**

**Unit 1:**

**14 Hrs.**

- 1.7 Introduction to Electronic Commerce: Introduction of commerce, Electronic commerce framework, electronic commerce and media convergence, the anatomy of e-commerce application.
- 1.8 The Network for Electronic Commerce: Need of network, market forces influencing the I-way, components of I-way, network access equipment, and global information distribution network.
- 1.9 The Internet as a Network Infrastructure: Introduction, the Internet terminology, NSFNET: Architecture and Components, Internet governance: The Internet Society.

**Unit 2:**

**23 Hrs.**

- 2.8 Network Security & Firewalls: Client-Server network security, security threats in client-server, firewalls and network security, data & message security, encrypted documents and electronic mail.
- 2.9 Electronic Commerce & World Wide Web: Introduction, architectural framework for electronic commerce, WWW as an architecture, security in the web.
- 2.10 Consumer Oriented Electronic Commerce: Introduction, consumer oriented application, mercantile process models, mercantile models from the consumer's perspective, mercantile models from the merchant's perspective.
- 2.11 Electronic Payment Systems: Introduction, types of electronic payment system, digital token based electronic payment systems, smart cards and electronic payment systems, credit cards systems, Threat on electronic payment system.

**Unit 3:****8 Hrs.**

3.6 Inter-organizational Commerce & Electronic Data Interchange: Introduction, EDI application in business, EDI: legal, security, and privacy issues, EDI and electronic commerce.

3.7 The Corporate Digital Library: Introduction, dimensions of electronic commerce systems, types of digital documents, Issues behind document infrastructure, corporate data warehouses.

**Laboratory works:** Developing the small electronic payment system.

**Text Books:** **Frontiers of Electronic Commerce**, 5<sup>th</sup> Edition, Kalkotia and Whinston, Pearson Education Asia

**Homework**

**Assignment:** Assignment should be given from the above units in throughout the semester.

**Computer Usage:** No specific

**Prerequisite:** C, C++, Data Structure, System Analysis & Design

**Category Content:** Science Aspect: 60%  
Design Aspect: 40%