

## **INTERNET TECHNOLOGY (DCA-104)**

### **OUTLINE OF COURSE:**

1. Introduction to Internet
2. Services on Internet
3. Electronic Mail
4. Current Trends on Internet
5. Internet Security Management Concepts

### **DETAILED SYLLABUS :**

#### **1. INTRODUCTION TO INTERNET:**

**(8 MARKS)**

What is Internet, Growth and Owners of the Internet, Anatomy of Internet, History of World Wide Web, Basic Internet Terminologies, Netiquette, Internet Applications, Commerce on the Internet, Governance on the Internet, Impact of Internet on Society, Crime on/through the Internet (Cyber Crime, Reasons for Cyber Crime, Mode and Manner of Committing Cyber Crime, Prevention of Cyber Crime).

#### **2. SERVICES ON INTERNET:**

**(8 MARKS)**

E-mail, What is World Wide Web, Telnet, FTP, What is Usenet, Search Engines.

#### **3. ELECTRONIC MAIL:**

**(8 MARKS)**

E-mail Networks and Servers, E-mail Protocols, Structure of an E-mail, E-mail Contents and Encoding, E-mail Routing, E-mail Clients, E-mail Encryption, Address Book, Signature File.

#### **4. CURRENT TRENDS ON INTERNET:**

**(8 MARKS)**

Languages (Java, ActiveX, JavaScript), Internet Phone, Internet Video (Video Conference on the Internet), E-Commerce, Collaborative Computing.

#### **5. INTERNET SECURITY MANAGEMENT CONCEPTS:**

**(8 MARKS)**

Overview of the Internet Security Threats, Firewalls, Internet Security Management Concepts, Information Privacy, Copyright Issues, Basics of Asymmetric Cryptosystems.

**PRACTICALS:****(40 - Marks)**

1. Opening a New E-mail Account in Gmail
2. Sending a New E-mail Message
3. Reply Your E-mail Message
4. Attach Picture in Your E-mail and Send it to Your Friend
5. Attach Word Document in Your E-mail and Send it to Your Friend
6. Google Search Engine
7. Open a New Facebook Account
8. Downloading Picture, Documents, Music, Software
9. Watching and Downloading Music Video from Youtube
10. Online Shopping
11. Online Chat Using Gmail and Facebook

**TEXT BOOK:**

**INTERNET TECHNOLOGY AND WEB DESIGN** - Satish Jain, Shashank Jain, Shashi Singh, and M. Geetha Iyer. First Edition 2010, Second Revised Updated Edition 2012. Reprinted 2013. BPB Publications.

**FURTHER READINGS:**

1. **Simplified Internet the Easiest Way to Learn** – BPB Editorial Board, First Edition 2002, BPB Publications.
2. **Internet : The Complete Reference** – Margaret Levine Young, Second Edition, Seventh Reprint 2002, Tata McGraw Hill.
3. **Computers Ahead CBSE Class X**, Rajiv Mathur, Orient BlackSwan.
4. **Internet Training Guide** - Satish Jain, BPB Publications.
5. **Internet and Web Page Design** – P.D. Murarka, BPB Publications.