Course Name: Computer Basics, Internet & Web page development (Theory)

Course Code: EC-101

Objectives:

The purpose of this course is to present the overview of the fundamentals of computer, Internet and resources used for it, web page designing and process & storage of data in computer system. Students will be able to understand the basic activities related to Internet and basic knowledge for design of a web page / web site.

Prerequisites: None

Contents:

1. **Computer Fundamentals**
    History, Characteristics and Generation of Computers, Classification of Hardware and Software, Basic knowledge about CPU, Control Unit, ALU (Concepts only), Memory: Primary memory, secondary memory, Storage devices (HDD, CD-ROM, DVD), I/O Devices: (key board, mouse, scanner, Plotter, OCR, OMR, CD-Drive), Display Devices (VDU, LCD, Touch screen, TFT), Types of printers: (Impact and non-Impact).

2. **Internet Concepts & Application**
    Introduction to Internet & WWW, History of Internet services, Intranet, Extranet, Types of Computer network, Network topology, Network components, URL, Search engine, News group, E-mail – concepts, protocols & netiquettes, Web portal, Forms of chats & conferencing, Remote login, IP address & DNS, FTP, Introduction to e-commerce, e-learning, e-banking, e-governance and social networking.

3. **Introduction to HTML**
    Introduction of HTML & SGML, Skeleton of HTML, Tools required for HTML, HTML tags & attributes – Basics, Formatting, List & Hyperlinks, Images and Image map in HTML.

4. **Web Page Development Using HTML**
    Tables, Frames and floating frames, Forms, Audio & Video in HTML, Introduction of Dynamic HTML, Difference between HTML and DHTML, Introduction to CSS, Types of Style Sheets, Use of CSS in Web Site Development, Implementation of font, color, border and text attributes in CSS, Introduction of FrontPage, Web page / Web site development using FrontPage.

Reference Book(s):

1) **Computer Fundamentals**, by V. Rajaraman, Prentice – Hall of India.
2) **Inside IBM PC**, by Peter Norton, Prentice – Hall of India.
3) **HTML in 21 days**, SAMS publication.
4) **How to create Web Pages using HTML**, by K Laudon, Tata McGraw Hill
5) **Web Enabled Commercial Application Development using HTML, DHTML**, Ivan Bayross , BPB Publisher.
6) **Introduction to Internet**, by Hantani, Tata McGraw Hill .
7) **The Internet**, by Dougles E Comer, Prentice - Hall of India.
8) **Fundamentals of Internet and www**, by Greenlaw R and Hepp E , Tata McGraw Hill.
9) **The Complete Reference HTML**, by Thomas A Powell, Tata McGraw Hill.
10) **Internet and Web Design,** Doeacc "O" Level, Firewall Media.
11) **Mastering Microsoft Frontpage-2000**, by Daniel A. Tauber, Brenda Kienal & Molly E. Holzschlag, BPB Publication.
12) **Internet Technology and Web Design,** ISRD Group, Tata McGraw Hill
13) **World Wide Web design with HTML**, by C Xavier, Tata McGraw Hill

Accomplishments of the student after completing the course:

At the end of the work student will be able to

- Use internet for information retrieval & data transfer.
- Design web pages / web sites using HTML.

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