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: (keyboard, 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
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 Douglas E Comer, Prentice - Hall of India.
8) **Fundamentals of Internet and www**, by Greenlaw R and Hepp E, Tata McGraw Hill.
10) **Internet and Web Design**, Doeacc “O” Level, Firewall Media.
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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