WEB DESIGNING

Course Code – ITCWD003   **Total Session: 45 Hrs**

Objectives:

The objective of this course is to make students familiar with graphic design principles that relate to web design and learn how to implement theories into practice. Develop skills in analysing the usability of a web site. Understand how to plan and conduct user research related to web usability. Learn the language of the web: HTML, CSS JavaScript, and Php.

Unit I: Web Essentials (5 Session)

Clients- Servers and Communication, Internet-Basic, Internet Protocols (HTTP, FTP, IP), World Wide Web (WWW), HTTP request message, HTTP response message. Network - Introduction, Types of network – LAN, Wan, Man, Pan, Network Topologies – Ring, Bus, Mesh, Star, Mesh.

Unit II: Mark-up Languages (15 Session)

Introduction to HTML, Basic HTML Structure, Common HTML Tags, Physical and Logical HTML, Types of Images, client side and server-side Image mapping, List, Table, Frames, Embedding Audio, Video, HTML form and form elements, Introduction to HTML Front Page, CSS with HTML, Types of CSS, Dynamic CSS.

Unit III: JAVA Script (10 Session)

Introduction to Java Script, Identifier & operator, control structure, functions, Document object model (DOM), DOM Objects (window, navigator, history, and location), Predefined functions, math & string functions, Array in Java scripts, Event handling in Java script.

Unit IV: Introduction to PHP (15 Session)

Introduction to PHP, What does PHP do? , Lexical structure, Language basics, Variable, constant, keywords, Data Types, Control Structures, Type casting, Type Juggling , $_GET, $_POST, $_REQUEST Variables, Function and String in PHP **-** Defining and calling a function, Default parameters, Variable parameters, Missing parameters, Variable function, Anonymous function , Types of strings in PHP, Printing functions, Encoding and escaping, Comparing strings, Manipulating and searching strings, Arrays in PHP - Indexed Vs Associative arrays, Identifying elements of an array, Storing data in arrays, Multidimensional arrays, Extracting multiple values , Converting between arrays and variables, Traversing arrays, Sorting, Action on entire arrays.

Reference Books:
1. Complete HTML- Thomas Powell
2. HTML and JavaScript – Ivan Bayross
3. Programming PHP - Rasmus Lerdorf and Kevin Tatroe, O'Reilly publication
4. Beginning PHP 5 - Wrox publication