CS50102:: INTERNET TECHNOLOGIES

Credits: 03   **Teaching Scheme: -** Theory 3 Hrs/Week

Prerequisites: Nil

Objectives:
- To increase the students knowledge of available web technologies.
- To become familiar with scripting languages.
- To learn and apply techniques that enhance a users web experience.

Unit I   **(9+2 Hrs)**
HTML & Forms

Part A. Introduction To HTML, WWW, W3C, web publishing, Common HTML, Tags Physical & Logical, Some basic tags like <body>,changing background color of page, text color etc., Text formatting tags, <p>
,<hr> tags, Ordered & Unordered Lists Tags, Inserting image, Links: text, image links, image mapping, Tables, Frames, Form, Introduction with text box, buttons, radio buttons
Part B. Working with List box, checkbox, text area

Unit II   **(9+2 Hrs)**
Cascaded Style Sheet (CSS)

Part A. Introduction to Style sheet, types of style sheets- Inline, External, Embedded CSS, text formatting properties, CSS Border, margin properties, Positioning, Use of classes in CSS, color properties, use of <div> & <span>, Intro & features of XML, writing XML elements, attributes etc. XML with CSS, XML DTD, Writing Simple sheets using XSLT
Part B. CSS background effects, padding properties, image properties

Unit III   **(9+2 Hrs)**
Javascript

Part A. Intro to script, types, intro of JavaScript, JavaScript identifiers, operators, control & Looping structure, Intro of Array, Array with methods, Math, String, Date Objects with methods, User defined & Predefined functions, DOM objects, Event handling, Validations On Forms, Looping structure, Intro of Array, Array with metho
Part B. Window Navigator, History, Location.

                                                                        (9+2 Hrs)

Unit IV
PHP Language Core

Part   A. Introduction to PHP and the Web Server Architecture Model, HTML

Embedding Tags and Syntax, Simple PHP Script, Decision Making, Flow Control and Loops , Working with Arrays Strings and functions, Outputting Data, Include and Require Statements, Error Handling and Reporting Considerations, Processing HTML Form Input from the User, Creating a Dynamic HTML Form with PHP, Using GET, POST, SESSION and COOKIE variables, Introduction to Object-oriented PHP: Classes and Constructors
Part B. PHP and HTTP Environment Variables, Constants and Data Types, and Operators

Unit V   **(9+2 Hrs)**
Database Operations with PHP and AJAX

Part A. Built-in Database Functions, Connecting to a MySQL, Selecting a Database, Building and Sending the Query to Database Engine, Retrieving, Updating and Inserting Data, Introduction to AJAX, AJAX with PHP, AJAX with database
Note: Apache Http Server is used at server side
Part B. Working of Arrays Strings and functions with database

Text Books
1. "*Complete reference HTML", Thomas A. Powell , 4th edition, Tata McGraw-Hill Publications, ISBN: 948-0-07-058281-1*
2. *"Beginning PHP 5", Dave Mercer, Allan Kent, Dreamtech Publications, ISBN: 81-265-0539-7*

Reference Books
1. *"JavaScript The definitive guide", David Flanagn, SPD Publications, ISBN: 81-7366-382-3*
2. *"Web Enabled Commercial Applications Development using. HTML, DHTML, Javascript, Perl CGI", Ivan Bayross, PBP Publications, ISBN: 81-7656-274-2*