

DETAILED SYLLABUS

UNIT - I INTERNET & HTML5

13 Hrs

1.1 Introduction to Internet: Definition of Internet – History of Internet - Packet Switching Different types of Connections : Dial-up connection – ISDN – Advantages and Disadvantages – ADSL Connection – Advantages and Disadvantages – DSL – Leased Line – Satellite Connections - Modem - Cable Modem – Internet tools - Web server – Domain name - Search Engines -- Web browser – IP address – Versions (concepts only) - Internet Protocols – TCP/IP – FTP – HTTP – TelNet –WAIS.- GPRS – Definition. EDGE – 2.75 G – 3 G – 4G Concepts only.

1.2 Introduction to HTML: Introduction - Basic Tags of HTML - HTML Tag - TITLE Tag –BODY Tag ; Formatting of Text : Headers - Formatting Tags: BOLD, ITALICS, UNDERLINE, PARAGRAPH, TT, STRIKETHROUGH, EM, BR and HR tags - PRE Tag -FONT Tag – Special Characters - Working with Images - META Tag

UNIT - II HTML 5 & CSS3

15 Hrs

2.1 HTML5: What is HTML5?-Difference between HTML&HTML5- New elements in HTML5 - canvas elements - Media elements – Form elements- Semantic and structural element - New graphic elements: <svg> and <canvas>.

Advanced HTML: Links - Anchor tag – Lists - Unordered Lists - Ordered Lists – Definition Lists; Tables - TABLE, TR and TD Tags - Colspan and Rowspan; Frames: Frameset – FRAME Tag – Frame inside other frames – NOFRAMES Tag ; Forms : FORM and INPUT Tag – TextBox - Radio Button – Checkbox – SELECT Tag and Pull Down Lists : Hidden - Submit and Reset ; Some Special Tags: COLGROUP - THREAD, TBODY, TFOOT - _blank, _self, _parent, _top – IFRAME –LABEL - Attribute for <SELECT> - TEXTAREA

2.2 CSS: Introduction – Features – Style Sheet basics - Working with CSS files – Syntax - Types of Style Sheets Inline Styles - Embedded Styles - External or Linked Styles What is CSS3? Animation – Borders – Backgrounds – Fonts –Multiple columns – Text effects.

2.3 Formatting Text and Fonts: Font Families Font Size Kerning, Leading, and Indenting - Formatting Colors and Backgrounds: The Color Attribute The Background Attribute - Background Colors and Images

2.4 Exploring CSS Class and ID Attributes: Defining the CSS Class Attribute – Defining the CSS ID Attribute - Dynamic effects with CSS - Lists- Tables – Forms - simple Examples using above properties.

UNIT - III CLIENT SIDE SCRIPTING (JAVASCRIPT)

12 Hrs

3.1 JavaScript Basics : Need of scripting languages – Variables and Data Types : Declaring

Variables – Life span of variables - Data Types - Operators : Assignment , comparison, computational and logical operators - Control Structures : Conditional Statements – Loop

Statements : for, while, for in, break and continue statements

3.2 Object-Based Programming and Message boxes: Functions - Executing Deferred Scripts - objects : Document object Model , Predefined objects, Array object, History object , Location object - Dialog Boxes - Alert Boxes - Confirm Boxes - Prompt Boxes

3.3 Javascript with HTML: Events - Event Handlers : onLoad and onUnload – onFocus and onBlur – onError - Forms : Forms Array – Form element properties – Example

3.4 Using JavaScript URLs : Client-side Image maps – Server Side Image Maps – Status bar –Cookies – Live Connect – Java Console – Java Script to Java – Java to JavaScript Communication.

UNIT - IV SERVER SIDE SCRIPTING (JSP)**13 Hrs**

4.1 Introduction: Client side scripting versus Server Side scripting – JSP Vs Javascript - Advantages and disadvantages of JSP – Client and server responsibilities – Installing and configuring Tomcat server – JSP Architecture – Life cycle of a JSP page - JSP vs Servlets – JSP Vs ASP.NET – List of JSP servers

4.2 JSP Elements: Comments – Directives: Page, Include and taglib directives – Scripting elements: Declarations - Scriptlets – expressions – Simple JSP page

4.3 Implicit objects: Request, response, pagecontext, application, out, config, page, session, exception – Scope: Application – Session – Request

UNIT - V JSP programs & DATABASE ACCESS**12 Hrs**

5.1 Writing Simple JSP programs: Convert entered text into uppercase – Find the maximum of three numbers – Add two numbers.

5.2 MySQL – create table – create records <sql:setDataSource> var, driver, url attributes. JdbcOdbcDriver. Creating connection, Creating statement - Statement – executeUpdate(),executeQuery() methods - Select, insert, update, delete operations

5.3 Develop a mini project using HTML5, CSS, JSP to manipulate data in MySQL database.

REFERENCES:

Sl.No.	TITLE	AUTHOR	PUBLISHER	Edition
1	Web Development and Design Foundations with HTML5	Terry Felke-Morris	Pearson	8th Edition
2	JavaScript the Complete Reference	Powell, Thomas	MC Grawhill	3rd Edition
3	HTML & CSS: The Complete Reference	Thomas Powell	MC Grawhill	Fifth Edition
4	JSP: The Complete Reference	Phil Hanna	MC Grawhill	
5.	The Internet	Douglas E.Comer	<i>Prentice Hall</i>	
6.	Pro HTML5 and CSS3 Design Patterns	Dionysios Synodinos, Michael Bowers, Victor Sumner	Springer India Private Limited (2012)	

Websites:

- 1.http://www.tutorialspoint.com/jsp/jsp_quick_guide.htm
2. <http://www.html5andcss3.org/html5tutorialpdf>
3. http://www.tutorialspoint.com/html/html_tutorial.pdf