

M-Scheme Detailed Syllabus

35251 – WEB PROGRAMMING

UNIT I INTERNET & HTML5

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

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 – Text Box - 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)

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)

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, page context, application, out, config, page, session, exception – Scope: Application – Session – Request

UNIT V JSP programs & DATABASE ACCESS

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.

TEXT BOOKS

- 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](#)
- 5 [Referenc](#) Phil Hanna MC Grawhill
- 6 The Internet Douglas E.Comer *Prentice Hall*



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