

COURSE CONTENT

UNIT-1

Introduction , Web Browser , Web 2.0

Introduction , W3C, Web 2.0 , Personal, Distributed and Client/Server Computing , Browser Portability , Software Technologies , Web Resources, Customizing Browser Setting ,Searching the Internet, Keeping Track of Your Favorite Sites, File Transfer Protocol (FTP),Online Help, Web Resources, Web 2.0?, Search, Content Networks , User-Generated Content, Blogging, Social Networking, Social Media, Tagging , Social Bookmarking , Software Development , Rich Internet Applications (RIAs), Web Services, Mashups, Widgets and Gadgets, Location-Based Services, XML, RSS, Atom, JSON and VoIP, Web 2.0 Monetization Models, Web 2.0 Business Models, Future of the Web , Where to GO for more Web 2.0 Information ,

XHTML , Cascading Style Sheets(CSS)

Introduction , Editing XHTML, First XHTML Example, W3CXHTML Validation Service, Headings, Linking , Images, Special Characters and Horizontal Rules , Lists, Tables, Forms, Internal Linking , Meta Elements, Inline Styles, Embedded Style Sheets, Conflicting Style, Linking External Style sheets, Positioning Elements, Backgrounds, Element Dimensions, Box Model and Text Flow, Media Types, Building a CSS Drop-Down Menu, User Style Sheets, CSS 3, Web Resources

UNIT-2

JavaScript: Introduction to Scripting

Introduction , Simple Program: Displaying a Line of Text in a Web Page , Modifying Our First Program , Obtaining User Input with Prompt Dialogs, Dynamic Welcome Page, Adding Integers, Memory Concepts, Arithmetic, Decision Making: Equality and Relational Operators, Web Resources,

JavaScript: Control Statements

Introduction, Algorithms, Pseudo code, Control Structures, if Selection Statement, if ...else selection Statement, Formulating Algorithms: Counter-Controlled Repetition , Formulating Algorithms: Sentinel-Controlled Repetition, Formulating Algorithms: Nested Control Statements, Assignment Operators, Increment and Decrement Operators, Essentials of Counter-Controlled Repetition , For Repetition Statement , Examples Using

the for Statement, Switch **Multiple-Selection** Statement , do....while Repetition Statement , break and continue Statements, Labeled break and Continue Statements, Logical Operators, Summary of Structures Programming , Web Resources

JavaScript: Functions

Introduction , Program Modules in JavaScript, Programmer-Definitions Functions, Function Defamations , Random Number Generation, Example: Game of Chance, Another Example: Random Image Generation , JavaScript Global Functions, Recursion , Recursion vs. Iteration ,

JavaScript: Arrays

Introduction, Arrays, Declaring and Allocating Arrays, Examples Using Arrays, Random Image Generator Using Arrays, References **and** Reference Parameters, Passing Arrays to Functions, Sorting Arrays, Searching Arrays: Linear Search and Binary Search, Multidimensional Arrays, Building an Online Quiz, Introduction to Object Technology, Math Object, String Object, Fundamentals of Characters and Strings, Methods of the string Object , Character-Processing Methods, Searching Methods, Splitting Steins and Obtaining Substrings, XHTML Markup Methods, Date Object, Boolean and Number Objects

Document object Model (DOM):Objects and Collections, Introduction , Modeling a Document: DOM Nodes and Trees , Traversing and Modifying a DOM Tree, DOM Collections, Dynamic Styles, Summary of the DOM Objects and Collection, Web Resources , JavaScript: Events, Introduction, Registering Event Handlers, Event onload , Event onmousemove, the event Object and this , Rollovers with onmouseover and onmouseout, From Processing with onfocus and onblur, More Form Processing with onsubmit and onreset , Event Building , More Events

UNIT-3

XML and RSS

Introduction, XML Basics, Structuring Data, ZXML Namespaces, Document Type Definitions (DTDs), W3CXML Schema Documents, XML Vocabularies, MathML™, Other Markup Languages, Extensible Stylesheet Language and XSL Transformations, Document Object Model (DOM), RSS,

Ajax- Enabled Rich Internet Applications

Introduction, Traditional Web Application vs. Ajax Applications, Rich Internet Applications (RIAs) with Ajax, History of Ajax, “Raw” Ajax Example Using the XMLHttpRequest Object, Using XML and the DOM, Creating a Full-Scale Ajax-Enabled Application, Dojo Toolkit

UNIT-4

IIS and Apache: introduction, architecture, client – server side scripting, requesting documents.

Database: Introduction, RDBMS, SQL – simple queries, ADO.NET object model, Java DB/ Apache Derby