IV Semester, DSC 1D
Internet Technologies

Unit – I

HTML- Basic HML, The document body, Text, Hyperlinks, Adding More Formatting, Lists, Using Color and Images, Images, Tables, Frames, Forms-Toward Interactivity .

Cascading Stylesheets - Introduction, Inline Styles, Embedded Style Sheets, Linking external sheets, Backgrounds, text flow and box model.

Unit - II

JavaScript- Introduction, simple programming, Obtaining User Input with prompt Dialogs, Operators (arithmetic, Decision making, assignment, logical, increment and decrement). Control Structures - if... else selection statement, while, do... while repetitions statement, for statement, switch statement, break and continue statements.

Functions - program modules in JavaScript, programmer defined functions, function definition, Random-number generator, scope rules, global functions, recursion,

Unit – III

JavaScript: Arrays, Objects - Math Object, String Object, Date Object, Boolean & Number Object, document and window Objects. Event Model - on click, on load, on error, onmouseover, onmouseout, on focus, on blur, on submit, on reset, more DHTML events.

Unit - IV

Introduction, XML Basics, Structuring Data, XML Namespaces, Document Type Definitions (DTDs), W3C XML Schema Documents, XML Vocabularies, Math, Other Markup Languages, and Extensible Style sheet Language and XSL Transformations, Document Object Model (DOM).

Text books:

1. Internet& World Wide Web- H. M. Deitel, P.J. Deitel, A. B. Goldberg-Third Edition

References:

1. D.R. Brooks, An Introduction to HTML and Javascript for Scientists and Engineers, Springer
2. URL: www.wekipedia.org
3. HTML A Beginner's Guide, Tata McGraw-Hill Education, 2009.
4. J. A. Ramalho, Learn Advanced HTML 4.0 with DHTML, BPB Publications, 2007

Practical: Internet Technologies

NOTE:

- All the concepts of programs from Text Book including exercises must be practice, execute and write down in the practical record book.

- Faculty must take care about UG standard programs it should be minimum 25 – 30.

- In the external lab examination student has to execute at least three programs with compilation and deployment steps are necessary.

- External Viva-voce is compulsory.

Example programs:

Practical exercises based on concepts listed in theory using HTML.

1. Create HTML document with following formatting – Bold, Italics, Underline, Colors, Headings, Title, Font and Font Width, Background, Paragraph, Line Brakes, Horizontal Line, Blinking text as well as marquee text.

2. Create HTML document with Ordered and Unordered lists, Inserting Images, Internal and External linking

3. Create HTML document with Table:

			Some image here	

4. Create Form with Input Type, Select and Text Area in HTML.

5. Create an HTML containing Roll No., student's name and Grades in a tabular form.

6. Create an HTML document (having two frames) which will appear as follows:

About department	
Department1	This frame would show the contents according to the link clicked by the user on the left Frame.
Department1	
Department1	

7. Create an HTML document containing horizontal frames as follows:

Department Names (could be along with Logos)
Contents according to the Link clicked

8. Create a website of 6 – 7 pages with different effects as mentioned in above problems.

9. Create HTML documents (having multiple frames) in the following three formats:

rame1
ame2

Frame1	
Frame 2	Frame 3

10.   Create a form using HTML which has the following types of controls:

I.   Text Box

II.   Option/radio buttons

III.   Check boxes

IV.   Reset and Submit buttons

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11.   Create a student Bio-Data, using forms.

12.   Create a web page using following style sheets

i. Inline style sheets. ii. Embedded style sheets. iii. External style sheets

13.   Create a web page using "class" style sheets with different "border-width" property values like thick, medium, thin, grove, inset, and outset, red & blue.

JavaScript:

Create event driven program for following:

B.A /B.Sc. (Life Sciences) with Computer Application Syllabus

1. Print a table of numbers from 5 to 15 and their squares and cubes using alert.

2. Print the largest of three numbers.

3. Find the factorial of a number n.

4. Enter a list of positive numbers terminated by Zero. Find the sum and average of these numbers.

5. A person deposits Rs 1000 in a fixed account yielding 5% interest. Compute the amount in the account at the end of each year for n years.

6. Read n numbers. Count the number of negative numbers, positive numbers and zeros in the list.

7. Write a JavaScript program to accept two values from form and apply any 5 mathematical functions.

8. Display the current date and time in both GMT and local form.

9. Write a JavaScript program on MouseOver, MouseOut, blur events.

10. Write a XML program using document type definitions

11. Write Student database with XML.

12. Write a XML program using XS