SHARNBASVESHWAR COLLEGE OF SCIENCE KALABURAGI

DEPARTMENT OF COMPUTER SCIENCE

CS04: CERTIFICATE COURSE IN WEB DESIGNING

Teaching Hours: 4 Hrs/Week   **Max. Marks: 40**

Unit I: Fundamentals of Web, HTML and XHTML   **6 Hrs**

Internet, WWW, Web Browsers and Web Servers, URLs, MIME, HTTP, Security, the Web Programmers Toolbox. Introduction to HTML and XHTML- Evolution, Basic syntax, Standard structure, Basic text markup, Images, Hypertext Links, Lists, Tables, Forms, Frames.

Unit II: Cascading Style Sheet   **2 Hrs**

Introduction, Levels of style sheets, Style specification formats, Selector forms, Property value forms, Font properties, List properties, Color, Alignment of text.

Unit III: JavaScript   **3 Hrs**

Overview of JavaScript, Object orientation and JavaScript, Syntactic characteristics, Primitives, operations, and expressions, Screen output and keyboard input, Control statements, Object creation and modification, Arrays,

Unit IV: JavaScript and HTML Document   **5 Hrs**

The JavaScript execution environment, The Document Object Model, Element access in JavaScript, Events and event handling, handling events from the Body elements, Button elements, Text box and Password elements.

Unit V: XML   **4 Hrs**

Introduction, Syntax, Document structure, Document type definitions, Namespaces, XML schemas, displaying raw XML documents, Displaying XML processors, Web services.

Develop & Demonstrate the following XHTML programs.

1. Develop and demonstrate a XHTML file that includes JavaScript script for the following problems:

   a) Input: A number n obtained using prompt Output: The first n Fibonacci numbers

   b) Input: A number n obtained using prompt Output: A table of numbers from 1 to n and their squares using alert

2. a) Develop and demonstrate, using Javascript script, a XHTML document that collects the USN of the user. Event handler must be included for the form element that collects this information to validate the input. Messages in the alert windows must be produced when errors are detected.

   b) Modify the above program to get the current semester also.

 3. a) Develop and demonstrate, using Javascript script, a XHTML document that contains three short paragraphs of text, stacked on top of each other, with only enough of each showing so that the mouse cursor can be placed over some part of them. When the cursor is placed over the exposed part of any paragraph, it should rise to the top to become completely visible.

   b) Modify the above document so that when a paragraph is moved from the top stacking position, it returns to its original position rather than to the bottom.

 4. a) Design an XML document to store information about a student in a science college affiliated to GUK. The information must include 100 USN, Name, Name of the College, Brach, Year of Joining, and e-mail id. Make up sample data for 3 students. Create a CSS style sheet and use it to display the document.

   b) Create an XSLT style sheet for one student element of the above document and use it to create a display of that element.