SILVER OAK UNIVERSITY

School of Computer Application
Bachelor Computer Application
Subject Name: Advance Web Designing
Subject Code:
Semester: 2nd

Prerequisite: Basic Knowledge of HTML technology

Objective:

The course will create basic fundamental of design dynamic html pages using JavaScript and CSS.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Evaluation Scheme				Total Marks
				Internal		External		
L	T	P	C	Th	Pr	Th	Pr	
3	0	2	4	40	50	60	---	150

Content:

Unit No.	Course Contents	Teaching Hours	Weightage %

1	**Introduction to HTML 5**
	• Basic Elements of HTML 5
	• Markup Element
	   o `<article>`
	   o `<aside>`
	   o `<command>`
	   o `<detail>`
	   o `<summery>`
	   o `<figure>`
	   o `<footer>`
	   o `<header>`
	   o `<hgroup>`
	   o `<mark>`
	   o `<meter>`
	   o `<nav>`
	   o `<progress>`
	   o `<ruby>`
	   o `<rt>`
	   o `<rp>`
		8	25

	o <section>
	o <time>
	• Media Element
	   o <audio>
	   o <video>
	   o <source>
	   o <embed>
	• Canvas Element
	• Form Elements
	   o <detailist>
	   o <keygen>
	   o <output>
	   o The Input type attribute values
	   o tel, search, url, email, datetime, date, month, week, time, datetime-local,
	     number, range, color		

2	**Style sheets :**
	   o Need for CSS
	   o introduction to CSS
	   o basic syntax and structure using CSS
	   o background images
	   o colors and properties
	   o manipulating texts using fonts, borders and boxes
	   o margins
	   o padding lists
	   o positioning using CSS,
		10	25

3	**Introduction to JavaScript**
	• JavaScript Introduction
	   o Understanding JavaScript
	   o About Dynamic HTML
	   o Selecting an development environment for JavaScript
	   o HTML and JavaScript
	• Advanced JavaScript
	   o Element of JavaScript
	   o Variables
	   o Operators
	   o Flow control statement
	   o Arrays
	   o Functions
	   o Event handling
	   o Browser and JavaScript
	   o Web page and JavaScript
	   o Frames and JavaScript
	• Frames and Validation in JavaScript
	   o Frames and JavaScript
	   o Validating User forms
		10	25

| 4 | **Introduction to XML and XML Document Type Definition**
• XML
    o Introduction
    o XML versus HTML
    o XML terminologies
    o XML standards(XML,XML namespace,DTD, CSS,XSL,
XML schema, Xquery, Xlink, Xpointer,Xpath)
    o XHTML
• XML Documentation
    o Introduction to DTD
    o Document type declaration
    o Element type declaration
    o Attribute declaration
    o Conditional sections, limitations of DTD | 10 | 25 |

Course Outcome:

Sr. No.	CO statement	Unit No
CO-1	Apply the concepts of web technology in designing static and dynamic web pages	1,2,3
CO-2	Design interactive web pages incorporating validation techniques.	2,3
CO-3	Understand the use of XML in web site development	4

Teaching & Learning Methodology:-

- The course includes a laboratory, where students have an opportunity to build an appreciation for the concepts being taught in lectures.
- Lectures with live practical example using Projector and Computer
- Experiments shall be performed in the laboratory related to course contents

List of Experiments/Tutorials:

Sr. No.	**Practical's**
1	Write HTML program which contains cascaded style sheet for p, h2, h3, body and font attribute
2	Write HTML program which contains external style sheet with user defined Classes.
3	Write HTML program which contains cascaded style sheet with margin attributes of style sheet
4	Write HTML program which contains external style sheet with background

	attributes of style sheet.
5	Write a javascript to print your name and surname on screen.
6	Write a javascript to find sum of N numbers entered by user.
7	Write javascript to validate textbox to accept only text value.
8	Write a java script to validate email address entered in textbox.
9	Create an XML document template to describe the result of student in an examination. The description should include the student's roll number, name, three subject names andmarks, total marks, percentage, and result
10	Write program to demonstrate how to add attribute and Entity in XML document .
11	Write a program to describe Empty, Any and Mixed content in DTD.
12	Write a program to describe Attribute declaration in DTD.

Major Equipment:

1. Computer System
2. Projector

Books Recommended:-

1. HTML 5 in Simple Steps Publisher: DreamTech Press By Kongent solution
2. JavaScript 2nd Edition Step by step Publisher :Microsoft corporation By Steve suehring.
3. XML and Related Technologies Publisher: Pearson Education By Atul Kahate

List of Open Source Software/learning website:

1. https://www.coursera.org/courses?query=c%20programming
2. https://www.udemy.com/
3. https://www.tutorialspoint.com/cprogramming
4. NPTEL Tutorials