



# SILVER OAK UNIVERSITY

**Computer Application**  
**Integrated M.Sc(IT)**  
**Subject Name: Web Designing**  
**Subject Code:**  
**Semester: 3<sup>rd</sup>**

**Prerequisite:** Fundamentals of Programming and Networking

**Objective:** The wide spread use of the Internet and WWW by common people has made it compulsion to provide web based interface for the applications to access the application from anywhere, anytime, anyone. The subject covers the wide range of web technologies both client side and server side to provide the exposure to the students to develop Rich Internet Applications using them. It covers the basics WWW, client side technologies like HTML, CSS, Bootstrap and DHTML including JavaScript, server side scripting with PHP and related technologies.

**Teaching and Examination Scheme:**

Teaching Scheme			Credits C	Evaluation Scheme				Total Marks
L	T	P		Internal		External		
				Th	Pr	Th	Pr	
2	0	4	4	40	20	60	30	150

**Content:**

Unit No.	Course Contents	Teaching Hours	Weightage %
01	<b>Introduction &amp; Concept of Internet:</b> History of Internet, Protocols of Internet, World Wide Web, Web 2.0, Web Browsers, Web Servers, URLs, URN, URI.	04	05
02	<b>HTML:</b> Hypertext Markup Language and its components, HTML tags and attributes, Text formatting tags, Hyperlinks , List tags, Embedded Content tags, meta tags, Image tags, HTML tables, Creating Forms, Frames , Multimedia tags, HTML 5 tags, DHTML, XHTML.	05	10
03	<b>Cascading Style Sheets</b> Introduction to CSS, Inline Style, Embedded Style, External Style Sheet, Imported Style Sheet, basic syntax and structure, using CSS, background images, colors and properties, manipulating texts, using fonts, Dimension Classification, Positioning, Pseudo-class, Pseudo-element, CSS Media Types, borders and boxes, margins, padding lists, box model, positioning using CSS, Introduction to CSS3 and its properties.	10	25

04	<b>JavaScript :</b> Client side scripting with JavaScript, variables, functions, conditions, loops, operators, arrays and array methods, control statements, built-in objects in JavaScript, Define Events, Events in JavaScripts, Event Handlers.	04	10
05	<b>Bootstrap:</b> Introduction to Bootstrap, Bootstrap Grid, Bootstrap Components, Bootstrap HTML Elements, Bootstrap Forms, Bootstrap Navigation, Bootstrap - Helper Classes	08	30
06	<b>PHP:</b> Hypertext Preprocessor: Getting Started with PHP - Basic PHP Syntax, Data Types, Variables, Constants, Operators, Control Structures, Functions, Advance Features: Cookies and Sessions, Object Oriented Programming with PHP, Introduction to MVC, MVC Architecture.	08	20

### Course Outcome:

Sr. No.	CO statement	Unit No
<b>CO-1</b>	Distinguish the concepts of WWW including web browser, web servers, URI, URL, URN and HTTP protocol.	1
<b>CO-2</b>	Design user friendly web pages by applying various HTML, DHTML and XHTML tags and considering webplanning, web designing and website publishing principles.	2
<b>CO-3</b>	Develop CSS and use them to provide the styles to web pages at various levels and create modern pages using HTML and CSS features with different layout as per need of applications.	3
<b>CO-4</b>	Apply Javascript to develop dynamic web pages.	4
<b>CO-5</b>	Apply bootstrap to develop responsive website.	5
<b>CO-6</b>	Demonstrate server side scripting with PHP using MVC Structure to create the web pages dynamically.	6

### List of Experiments/Tutorials:

1. Implement basic HTML tags to learn HTML
2. Create table structure as given in image using table. Also Create 5 page structures for your website.

HOSTEL		
CATEGORY	Registration Fee	Annual/500 hrs whichever is earlier
Students	Rs 50/-	Rs 500
General	Rs 500	Rs 5000
SERVICE		
Students	Not Offered	Not Offered
General	Rs 500	Rs 15000

3. Create structure of website as given in image using div and external css. Also Create 5 page structures for your website using div and external css.

HOSTEL		
CATEGORY	Registration Fee	Annual/500 hrs whichever is earlier
Students	Rs 50/-	Rs 500
General	Rs 500	Rs 5000
SERVICE		
Students	Not Offered	Not Offered
General	Rs 500	Rs 15000

4. Implement use of <ul>, <ol>, <li> tag to create navigation (menu) in your website. Also make your website attractive by adding images and colours in website.
5. Create a registration form and give proper validations.
6. Implement event handling in JavaScript.
7. Create different types of form layouts using bootstrap.
8. Bootstrap two column grid layouts for all devices.
9. Bootstrap three column grid layouts for all devices.
10. Grid sizing of form controls with Bootstrap.
11. Demonstrate Bootstrap responsive tables.
12. Creating horizontal definition lists with Bootstrap.
13. Bootstrap form validation.
14. Demonstrate bootstrap table with sorting and searching functionality.
15. Demonstrate Bootstrap Filters.
16. Create and design custom select menu with Bootstrap.
17. Creating pagination with Bootstrap.
18. Creating animated progress bars with Bootstrap.
19. Adding dropdown menu and search box to navbar in Bootstrap.
20. Implement database connectivity to add data of registration form in your database.
21. Create Registration, login, logout system and implement in your website using session in php.
22. Create an admin panel by which admin can add, update and delete user details as well as content.

### Major Equipment:

Modern PC with Web server software installed or accessible through LAN

### Books Recommended:-

1. Developing Web Applications, Ralph Moseley and M. T. Savaliya, Wiley-India
2. Web Technologies, Black Book, dreamtech Press
3. HTML 5, Black Book, dreamtech Press
4. Web Design, Joel Sklar, Cengage Learning
5. Developing Web Applications in PHP and AJAX, Harwani, McGrawHill
6. Internet and World Wide Web How to program, P.J. Deitel& H.M. Deitel, Pearson.
7. HTML& CSS: The Complete Reference,5th Edition by Thomas A Powell
8. The Complete Reference JavaScript, 3rd Edition, Thomas A Powell, McGraw Hill

## List of Open Source Software/learning website:

Browsers like IE, Mozilla, Firefox, Chrome, etc

- Server software XAMPP/WAMP/LAMP

- [www.apachefriends.org](http://www.apachefriends.org)

- [www.w3.org](http://www.w3.org)

- [www.w3schools.com](http://www.w3schools.com)

- [www.php.net](http://www.php.net)

- <https://www.w3resource.com/>

- [www.phpmyadmin.net](http://www.phpmyadmin.net)