

SRI VENKATESWARA UNIVERSITY
B.Sc. DEGREE COURSE IN COMPUTER SCIENCE
SEMESTER SYSTEM WITH CBCS

SEMESTER V
W.E.F. 2022-2023

*Skill Enhancement Courses (SECs) for Semester V,
from 2022-23 (Syllabus with Learning Outcomes,
References, Co-curricular Activities)*

Max Marks: 100+50

COURSE6A: WEB INTERFACE DESIGNING TECHNOLOGIES

(Skill Enhancement Course(Elective),Credits:05)

I. LearningOutcomes: Students after successful completion of the course will be able to:

1. Understand and appreciate the web architecture and services.
2. Gain knowledge about various component sofa website.
3. Demonstrate skills regarding creation of a static website and an interface to dynamic website.
4. Learn how to install word press and gain the knowledge of installing various pluginstouse in their websites.

II. Syllabus: (Total Hours:90including Teaching, Lab, and Field training, Unit tests etc.)

Unit-I

(10 hours)

HTML : Introduction to web designing, difference between web applications and desktop applications, introduction to HTML, HTML structure, elements, attributes, headings, paragraphs, styles, colours, HTML formatting, Quotations, Comments, images, tables, lists, blocks and classes, HTML CSS, HTML frames, file paths, layout, symbols, HTML responsive.

Unit- II

(10 hours)

HTML forms: HTML form elements, input types, input attributes, HTML5, HTML graphics, HTML media video, audio, plugINS, youtube. **HTML API'S:** Geolocation, Drag/drop, local storage, HTML SSE. **CSS:** CSS home, introduction, syntax, colours, background, borders, margins, padding, height/width, text, fonts, icons, tables, lists, position, over flow, float, CSS combinators, pseudo class, pseudo elements, opacity, tool tips, image gallery, CSS forms, CSS counters, CSS responsive.

Unit- III

(10 hours)

Client side Validation: Introduction to JavaScript - What is DHTML, JavaScript, basics, variables, string manipulations, mathematical functions, statements, operators, arrays, functions. Objects in JavaScript Data and objects in JavaScript, regular expressions, exception handling. DHTML with JavaScript- Data validation, opening a new window, messages and confirmations, the status bar, different frames, rollover buttons, moving images.

Unit- IV

(10 hours)

Word press : Introduction to word press, servers like wamp, bitnami e.tc, installing and configuring word press, understanding admin panel, working with posts and pages, using editor, text formatting with shortcuts, working with media-Adding, editing, deleting media elements, working with widgets, menus.

Unit- V

(10 hours)

Working with themes-parent and child themes, using featured images, configuring settings, user and user roles and profiles, adding external links, extending word press with plug-ins. Customizing the site, changing the appearance of site using css , protecting word press website from hackers.

III. References

1. Chris Bates, Web Programming Building Internet Applications, Second Edition, Wiley (2007)
2. Paul S. Wang Sanda S. Katila, an Introduction to Web Design plus Programming, Thomson (2007).
3. Head
First HTML and CSS, Elisabeth Robson, Eric Freeman, O'Reilly Media Inc.
4. An Introduction to HTML and JavaScript: for Scientists and Engineers, David R. Brooks. Springer, 2007
5. Schaum's Easy Outline HTML, David Mercer, McGraw Hill Professional.
6. Wordpress for Beginners, Dr. Andy Williams.
7. Professional Wordpress, Brad Williams, David Damstra, Hanstern.
8. Webresources:
 - a. <http://www.codecademy.com/tracks/web>
 - b. <http://www.w3schools.com>
 - c. <https://www.w3schools.in/wordpress-tutorial/>
 - d. <http://www.homeandlearn.co.uk>

9. Other web sources suggested by the teacher concerned and the college librarian including reading material.

IV. Co-Curricular Activities

a) Mandatory: *(Training of students by teacher in field related skills : (lab: 10+field: 05):*

1. **For Teacher:** Field related training of students by the teacher in laboratory/field for not less than 15 hours on identifying the case study to build a website, designing the format, structure, menus, submenus etc for a web site and finally to build a website.

2. **For Student:** Students shall (individually) search online and visit any of the agencies like hotels, hospitals, super bazaars, organizations, etc. where there is a need for a website and identify anyone case study and submit a handwritten Fieldwork/Projectwork/Projectwork/Projectwork/Projectwork Report not exceeding 10 pages. Example: Choosing a firm or business to develop a website, identifying various business entities to be included in the website, identifying menu bar and content to be placed in their websites.

3. Max marks for Fieldwork/Project work/Project work / Project work/Project work / Project work Report: 05.

4. Suggested Format for Fieldwork/Project work/Project work / Project work/Project work : *Title page, student details, index page, details of place visited, observations, findings and acknowledgements.*

5. Unit tests (IE).

b) Suggested Co-Curricular Activities

1. Build a website with 10 pages for the case study identified.

2. Training of students by related industrial experts.

3. Assignments

4. Seminars, Group discussions, Quiz, Debates etc. (on related topics).

5. Presentation by students on best websites.

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B.Sc. DEGREE COURSE IN COMPUTER SCIENCE

V SEMESTER - W.E.F. 2022-23

COURSE6A:WEB INTERFACE DESIGNING TECHNOLOGIES

MODEL QUESTION PAPER

Time: 3 hours

Marks: 75 marks

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer any five of the following questions in Part A. Part B consists of 5 Units. Answer one full question (A or B) from each unit (i.e., Q.No 9 from Unit - I, Q.No 10 from Unit - II, Q.No 11 from Unit - III, Q.No 12 from Unit - IV, Q.No 13 from Unit - V). Each question carries 10 marks.

PART - A

Answer any Five of the following question.

(5X5=25M)

1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

(P.T.O)

PART - B

Answer All The Questions. Each question carries 10 marks (5X10= 50M)

9.	(A) OR (B)
10.	(A) OR (B)
11.	(A) OR (B)
12.	(A) OR (B)
13.	(A) OR (B)

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COURSE6A: WEB INTERFACE DESIGNING TECHNOLOGIES
PRACTICAL SYLLABUS

V. Learning Outcomes:

On successful completion of this practical course, students shall be able to:

1. Create a basic website with the help of HTML and CSS.
2. Acquire the skill of installing WordPress and various plugins of WordPress.
3. Create a static website with the help of WordPress.
4. Create an interface for a dynamic website.
5. Apply various themes for their websites using WordPress.

VI. Practical (Laboratory) Syllabus:

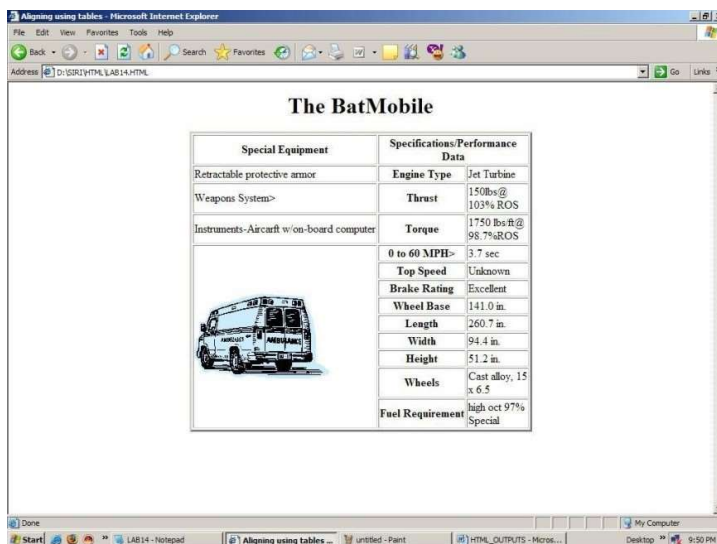
(30hrs.)

HTML and CSS:

1. Create an HTML document with the following formatting options:
 - (a) Bold, (b) Italics, (c) Underline, (d) Headings (Using H1 to H6 heading styles), (e) Font (Type, Size and Color), (f) Background (Colored background/ Image in background), (g) Paragraph, (h) Line Break, (i) Horizontal Rule, (j) Pre tag
2. Create an HTML document which consists of:
 - (a) Ordered List (b) Unordered List (c) Nested List (d) Image
3. Create a Table with four rows and five columns. Place an image in one column.
4. Using "table" tag, align the images as follows:



5. Create a menu form using HTML.
6. Style the menu buttons using CSS.
7. Create a form using HTML which has the following types of controls:
 - (a) TextBox
 - (b) Option/radio buttons
 - (c) Checkboxes
 - (d) Reset and Submit buttons
8. Embed a calendar object in your webpage.
9. Create an applet that accepts two numbers and performs all the arithmetic operations on them.
10. Create a nested table to store your curriculum.
11. Create a form that accepts the information from the subscriber of a mailing system.
12. Design the page as follows:



13. Create a help file as follows:



14. Create a webpage containing your biodata (assume the form and fields).
15. Write an HTML program including stylesheets.
16. Write an HTML program to layers of information in a webpage.
17. Create a static webpage.

Word press:

18. Installation and configuration of WordPress.
 19. Create a site and add a theme to it. 20. Create a child theme
 21. Create five pages on COVID-19 and link them to the homepage.
 22. Create a simple post with a featured image.
 23. Add an external video link with size 640X 360.
 24. Create a user and assign a role to him.
 25. Create a login page to WordPress using custom links
 26. Create a website for your college.
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