SRI A S N M GOVERNMENT COLLEGE, PALAKOL, W.G. DT
(Affiliated to Adikavi Nannaya University, Rajahmundry)
(Accredited with NAAC "B" Grade with 2.61 CGPA points)

Paper-VII: Elective-C

WEB TECHNOLOGIES SYLLABUS

COURSE CODE: BSCS67CT

Course Objective

To provide knowledge on web architecture, web services, client side and server side scripting technologies to focus on the development of web-based information systems and web services.

To provide skills to design interactive and dynamic web sites.

Course Outcome

1. To understand the web architecture and web services.
2. To practice latest web technologies and tools by conducting experiments.
3. To design interactive web pages using HTML and Style sheets.
4. To study the framework and building blocks of .NET Integrated Development Environment.
5. To provide solutions by identifying and formulating IT related problems.

UNIT – I

HTML: Basic HTML, Document body, Text, Hyper links, adding more formatting, Lists, Tables using images. More HTML: Multimedia objects, Frames, Forms towards interactive, HTML document heading detail

UNIT – II

Cascading Style Sheets: Introduction, using Styles, simple examples, your own styles, properties and values in styles, style sheet, formatting blocks of information, layers.

UNIT – III

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

UNIT – IV

DHTML with JavaScript: Data validation, opening a new window, messages and confirmations, the status bar, different frames, rollover buttons, moving images,

UNIT – V

XML: defining data for web applications, basic XML, document type definition,

presenting XML, document object model. Web Services

References:

1. Harvey M. Deitel and Paul J. Deitel, **"Internet & World Wide Web How to Program", 4/e,** Pearson Education.

2. Uttam Kumar Roy, Web Technologies from Oxford University Press

Student Activities:

1. **Prepare a web site for your college**

2. **Prepare your personal website**

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Paper-VII: Elective-C

WEB TECHNOLOGIES LAB

COURSE CODE: BSCS67CP

1. Write a HTML program illustrating text formatting.

2. Illustrate font variations in your HTML code.

3. Prepare a sample code to illustrate links between different sections of the page.

4. Create a simple HTML program to illustrate three types of lists.

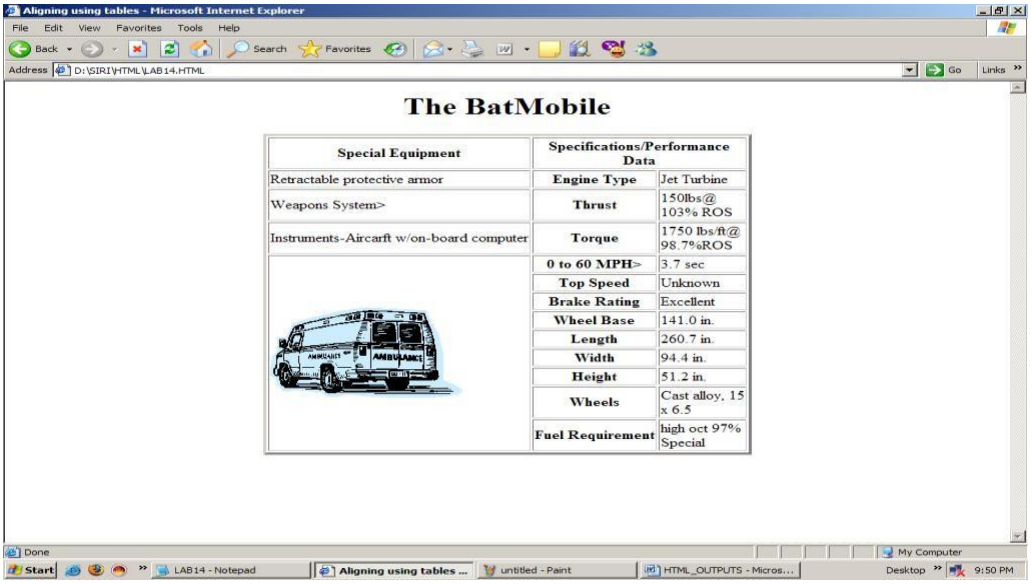
5. Embed a calendar object in your web page.

6. Create an applet that accepts two numbers and perform all the arithmetic operations on them.

7. Create nested table to store your curriculum.

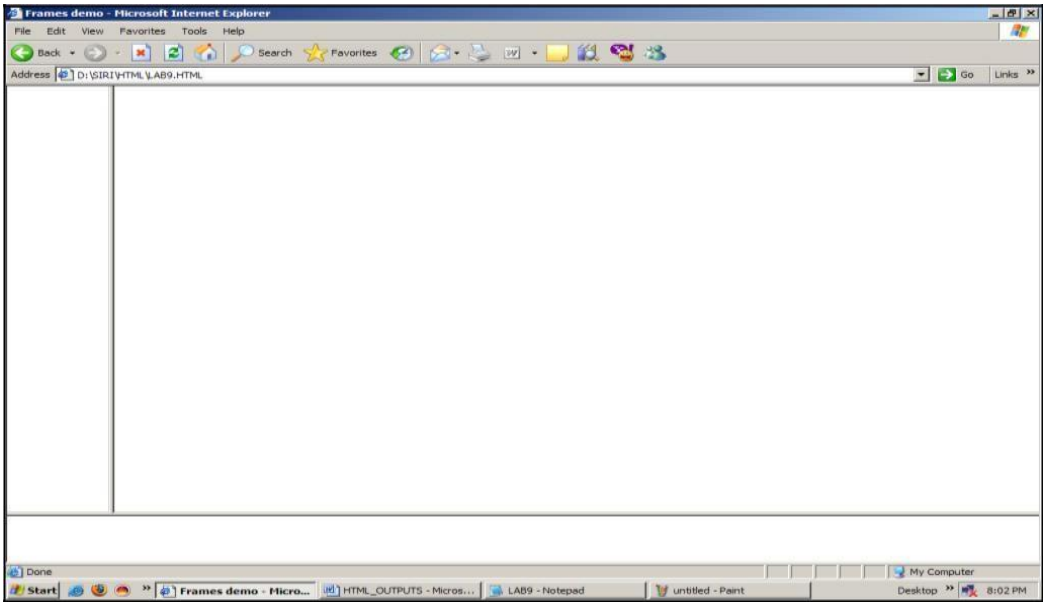
8. Create a form that accepts the information from the subscriber of a mailing system.

9. Design the page as follows:

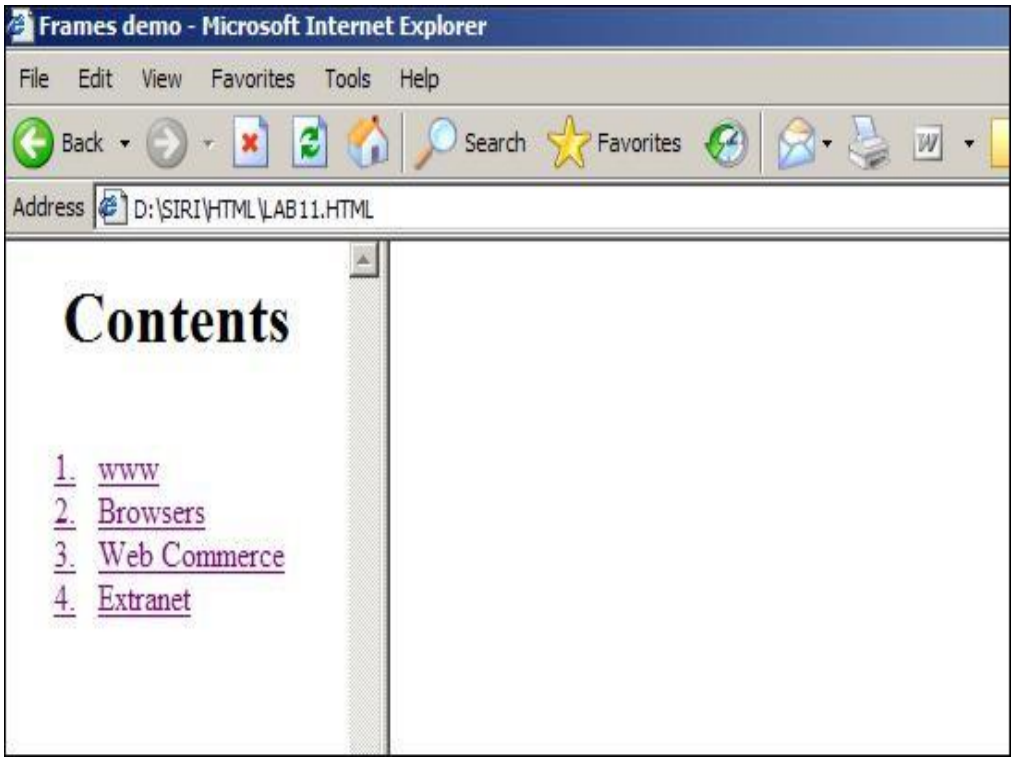


10. Using “table” tag, align the images as follows:

11. Divide the web page as follows:



12 Create a help file as follows:



13 Create a form using form tags (assume the form and fields).
14 Create a webpage containing your bio data (assume the form and fields).
15 Write an html page including style sheets.
16 Write an html page to layers of information in web page.
17 Create a static webpage.

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III B.Sc Computer Science VI-Semester

MODEL QUESTION PAPER

Paper - VII: Elective - I: C. WEB TECHNOLOGIES

Time : 3 Hours Max.Marks : 75

SECTION – A

Answer any **FIVE** of the following questions. **5 x 5 M = 25 M**

1. Write about formatting options in HTML.

2 What are the different types of lists we can create in HTML page.

3. Explain frames in HTML.
4. Write about HTML Block & Inline elements.
5. How to use functions in JavaScript?
6. How to open a new window in Javascript?
7. How to validate data using JavaScript?
8. Write brief note on XML web services.

SECTION - B

Answer **ALL** the following questions. **5 x 10 M = 50 M**

9. a) Explain the structure of HTML.

(or)

b) How to create forms in HTML? Explain with an example.

10. a) Explain the concept of layers in CSS. How to create them?

(or)

b) Explain how to use styles in CSS.

11. a) Write about string manipulations in JavaScript.

(or)

b) What are regular expressions in JavaScript? How to use them?

12. a) Explain data validation concept in detail.

(or)

b) Explain briefly about Rollover Buttons.

13. a) Explain about XML elements.

(or)

b) Explain DTD in XML.
