1. Understand the various steps in designing a creative and dynamic website.
2. They will able to write html, JavaScript, CSS and applet codes .
3. They will have clear understanding of hierarchy of objects in HTML and XML.
4. Finally they can create good, effective and customized websites.
5. Know regarding internet related technologies. Systematic way of developing a website.
6. Design dynamic and interactive web pages by embedding Java Script code in HTML.Use Java Script to validate user input.
7. Know the advantages and use of different types of CSS.
8. Understand the HTML and XML DOM. Know how to use Dynamic HTML.
9. Use CGI and perl.
10. Efficiently write Java applets.
11. Understand the fundamentals of VB Script.
12. Understand the fundamentals of ASP.
13. Understand the fundamentals of AJAX.
14. Understand the fundamentals of Web Hosting.

a) Explain the history of the internet and related internet concepts that are vital in understanding web development.

b) Discuss the insights of internet programming and implement complete application over the web.

c) Demonstrate the important HTML tags for designing static pages and separate design from content using Cascading Style sheet.

d) Utilize the concepts of JavaScript and Java

e) Use web application development software tools i.e. Ajax, PHP and XML etc. and identify the environments currently available on the market to design web sites.

 1. Analyze a web page and identify its elements and attributes.  
     2. Create web pages using XHTML and Cascading Styles sheets.   
     3. Build dynamic web pages using JavaScript (client side programming).   
     4. Write non-trivial programs using C#.   
     5. Build interactive web applications using ASP.NET and C#.   
     6. Build web applications using PHP.   
     7. Construct and manipulate web databases using ADO.NET.   
     8. Create XML documents.   
     9. Create XML Schema.   
     10. Build and consume web services.

Course Outcomes:

After the completion of the course the student will

1. Understand the need for and be able to write validated XHTML 1.0.

2. Understand the principles of W3C WCAG 1.0 (as a minimum) and be able to write compliant XHTML documents.

3. Understand and be able to apply sound, non-browser specific web design principles.

4. Understand and be able to use Javascript to access the DOM to reference web document object CSS properties.

5. Understand the application of XHTML for document structure and content.

6. Understand and apply CSS definitions for document presentation.

7. Understand and apply Javascript, CSS & XHTML to create dynamic XHTML.

8. Be aware of emerging technologies and developing W3C recommendations.

Web technologies lab

Course Outcomes: After completion of this course the student will be ableto 1. Design and implement a basic website. 2. Implement different navigation strategies. 3. Use client-side technologies (XHTML, CSS, forms, JavaScript, and 4. Use server-side technologies (Servlets and JSP) to implementwebsites. 5. Develop simple back-end database to support a website. 6. Recognize and evaluate website organizational structure and design elements. 7. Communicate their evaluations orally and in writing. 8. Create an XML application. 9. Create a small Ruby on Rails application.