Course code | Name | L-T-P-Credits | Year of Introduction
--- | --- | --- | ---
IT302 | Internet Technology | 4-0-0-4 | 2016

Prerequisite : Nil

Course Objective

- To impart the basics of web page design
- To understand important components of HTML5 documents and use HTML5 to create web pages
- To learn to use JavaScript in Webpages to enhance the functionality and appearance of web pages
- To know XML schema and transformation
- To design dynamic web pages using PHP

Syllabus


Expected Outcomes

After the course the students would be able to

i. analyze and apply the role of languages like HTML, CSS, XML, Javascript, PHP and the workings of the web and web applications
ii. analyze a web project and identify its elements and attributes in comparison to traditional projects.
iii. analyze and create web pages using HTML, and Cascading Styles sheets.
iv. analyze and build dynamic web pages using JavaScript (client side programming).
v. analyze and create XML documents and XML Schema.
vi. analyze and build interactive web applications using PHP

TEXT BOOK


REFERENCES

4. [www.w3schools.com](http://www.w3schools.com)
<table>
<thead>
<tr>
<th>Module</th>
<th>Contents</th>
<th>Hours</th>
<th>Sem</th>
<th>Exam Marks</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction to Computers and the Internet - Web Basics, Introduction to HTML5 - W3C HTML5 Validation Service, Headings, Linking, Images, Special Characters and Horizontal Rules, Lists, Tables, Forms, Internal Linking, meta elements, New HTML5 Form input Types, input and data list elements and autocomplete Attribute, Page-Structure Elements.</td>
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<tr>
<td>II</td>
<td>Introduction to Cascading Style Sheets - Inline Styles, Embedded Style Sheets, Conflicting Styles, Linking External Style Sheets, Positioning Elements - Absolute Positioning, z-index, Relative Positioning, span, Backgrounds, Element Dimensions, Box Model and Text Flow, Media Types, Drop-Down Menus</td>
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<tr>
<td>III</td>
<td>JavaScript: Introduction to Scripting - Control Statements - if Selection Statement, if...else Selection Statement, while Repetition Statement, for Repetition Statement, switch Multiple-Selection Statement, do...while Repetition Statement, break and continue Statements, JavaScript: Functions- Function Definitions, Random Number Generation, JavaScript Global Functions, JavaScript: Arrays - Declaring, Allocating and Using Arrays, Passing Arrays to Functions, Sorting Arrays with sort, Searching Arrays with index Of, JavaScript: Objects: Math, String, Date, Boolean and Number, document Object.</td>
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<td>IV</td>
<td>Document Object Model (DOM): Modeling a Document: DOM Nodes and Trees, Traversing and Modifying a DOM Tree, DOM Collections, Dynamic Styles, Using a Timer and Dynamic Styles to Create Animated Effects, JavaScript Event Handling: load Event, Event mouse move and the event Object, Form Processing with focus and blur, submit and reset, Event Bubbling</td>
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**FIRST INTERNAL EXAMINATION**

**SECOND INTERNAL EXAMINATION**
<table>
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**END SEMESTER EXAM**

**QUESTION PAPER PATTERN**

Maximum Marks: 100  
Exam Duration: 3 hours

The question paper shall consist of Part A, Part B and Part C.

**Part A** shall consist of three questions of 15 marks each uniformly covering Modules I and II. The student has to answer any two questions (15×2=30 marks).

**Part B** shall consist of three questions of 15 marks each uniformly covering Modules III and IV. The student has to answer any two questions (15×2=30 marks).

**Part C** shall consist of three questions of 20 marks each uniformly covering Modules V and VI. The student has to answer any two questions (20×2=40 marks).

**Note:** Each question can have a maximum of 4 subparts, if needed