

**Web Technologies**

<b>Semester V</b>	<b>Subject Code: BC51702</b>	<b>Lectures: 60</b>
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**Objectives:**

The syllabus aims in equipping students with,

- Understanding the concepts of internet programming
- Understanding Client & Server Communication system
- Developing web based applications using PHP

<b>Unit 1: Web Essentials &amp; Mark up Languages</b>	<b>12</b>
<ul style="list-style-type: none"> <li>• Clients- Servers and Communication</li> <li>• Internet-Basic ,Internet ,Protocols(HTTP,FTP,IP)</li> <li>• World Wide Web(WWW)</li> <li>• HTTP request message, HTTP response message</li> <li>• Introduction to HTML 5</li> <li>• Basic HTML Structure</li> <li>• Common HTML Tags</li> <li>• Physical and Logical HTML</li> <li>• Types of Images, client side and server-side Image mapping</li> <li>• List, Table, Frames</li> <li>• Embedding Audio, Video</li> <li>• HTML form and form elements</li> <li>• Introduction to HTML Front Page</li> <li>• Introduction to CSS</li> <li>• CSS with HTML</li> </ul>	

<b>Unit 2: Introduction to PHP</b>	<b>10</b>
<ul style="list-style-type: none"> <li>• Introduction to PHP</li> <li>• What does PHP do?</li> <li>• Lexical structure</li> <li>• Language basics</li> <li>• Variable, constant, keywords, Data Types</li> <li>• Control Structures</li> <li>• Variables variable</li> <li>• Type casting, Type Juggling</li> <li>• \$_GET, \$_POST, \$_REQUEST Variables</li> </ul>	



<b>Unit 3: Function and String in PHP</b>	<b>10</b>
<ul style="list-style-type: none"><li>• Defining and calling a function</li><li>• Default parameters</li><li>• Variable parameters, Missing Parameters</li><li>• Variable function, Anonymous function</li><li>• Types of strings in PHP</li><li>• Printing functions</li><li>• Encoding and escaping</li><li>• Comparing strings</li><li>• Manipulating and searching strings</li></ul>	

<b>Unit 4: Arrays in PHP</b>	<b>08</b>
<ul style="list-style-type: none"><li>• Indexed Vs Associative arrays</li><li>• Identifying elements of an array</li><li>• Storing data in arrays</li><li>• Multidimensional arrays</li><li>• Extracting multiple values</li><li>• Converting between arrays and variables</li><li>• Traversing arrays</li><li>• Sorting</li><li>• Action on entire arrays</li></ul>	

<b>Unit 5: Implementation of Object Oriented Programming in PHP</b>	<b>08</b>
<ul style="list-style-type: none"><li>• Classes</li><li>• Objects</li><li>• Introspection</li><li>• Serialization</li><li>• Inheritance</li><li>• Interfaces</li><li>• Encapsulation</li></ul>	

\*Contact hours – 12 hours



**Reference Books:**

1. Rasmus Lerdorf and Kevin Tatroe, *Programming PHP*, O'Reilly publication
2. *Beginning PHP 5*, Wrox publication
3. *PHP web services*, Wrox publication
4. Holzner, Paraglyph Press, *HTML Black Book*

