

## Certificate Course in Web Designing

### Under Ordinance 181

#### Paper I: Basics of web designing

Course Contents	Lect. / Hrs.
<b>Unit I : Introduction</b> <ul style="list-style-type: none"><li>• Brief History of Internet</li><li>• Basic principles involved in developing a web site</li><li>• Five Golden rules of web designing</li><li>• What is World Wide Web</li><li>• Why create a web site</li><li>• Web Standards</li></ul>	10
<b>Unit II : Introduction to HTML</b> <ul style="list-style-type: none"><li>• What is HTML</li><li>• HTML Documents</li><li>• Basic structure of an HTML document</li><li>• Creating an HTML document</li><li>• Mark up Tags</li><li>• Heading-Paragraphs</li><li>• Line Breaks</li><li>• HTML Tags.</li></ul>	10
<b>Unit III : Elements of HTML</b> <ul style="list-style-type: none"><li>• Introduction to elements of HTML</li><li>• Working with Text</li><li>• Working with Lists, Tables and Frames</li><li>• Working with Hyperlinks, Images and Multimedia</li><li>• Working with Forms and controls.</li><li>• Inserting audio files, video files</li></ul>	20
<b>Unit IV : Introduction to Cascading Style Sheets</b> <ul style="list-style-type: none"><li>• Concept of CSS</li><li>• Creating Style Sheet</li><li>• CSS Properties</li><li>• Types of CSS</li><li>• CSS Styling(Background, Text Format, Controlling Fonts)</li><li>• Working with block elements and objects</li><li>• Working with Lists and Tables</li><li>• CSS Id and Class Selector</li><li>• CSS Colors</li><li>• Creating page Layout and Site Designs.</li></ul>	20
<b>Unit V : Introduction to JavaScript</b> <ul style="list-style-type: none"><li>• JavaScript Introduction</li><li>• JavaScript Output</li><li>• JavaScript Variables</li><li>• JavaScript Operators</li></ul>	20

<ul style="list-style-type: none"> <li>• JavaScript Arithmetic</li> <li>• JavaScript Data Types</li> <li>• JavaScript Assignment</li> <li>• JavaScript Functions</li> <li>• JavaScript Objects</li> <li>• JavaScript Scope</li> <li>• JavaScript Events</li> <li>• JavaScript Strings and String Methods</li> <li>• JavaScript Numbers and Number Methods</li> <li>• JavaScript Math</li> <li>• JavaScript Dates: Formats and Methods</li> <li>• JavaScript Booleans</li> <li>• JavaScript Comparisons</li> <li>• JavaScript Conditions</li> <li>• JavaScript Switch</li> <li>• JavaScript Loops</li> <li>• JavaScript Break</li> <li>• JavaScript Type</li> <li>• JavaScript Forms (API and Validation)</li> </ul>	
<p><b>Unit VI : Introduction to Web Publishing or Hosting</b></p> <ul style="list-style-type: none"> <li>• Creating the Web Site</li> <li>• Saving the site</li> <li>• Working on the web site</li> <li>• Creating web site structure</li> <li>• Creating Titles for web pages</li> <li>• Themes-Publishing web sites.</li> </ul>	10

**References:**

- 1) The Complete reference –Web Design, Second Edition By Thomas A. Powell, TMH, ISBN-0-07-041186.
- 2) Internet in easy steps By Dremtech press.
- 3) How to become web master in 14 days By James L. Mohler, TechMedia.
- 4) HTML 4.0 By E.Stephen Mack & Janan Platt, BPB publication.
- 5) Web References [www.w3c.org](http://www.w3c.org) , [W3Schools.com](http://W3Schools.com)
- 6) Web Technologies: HTML, Javascript Kogent Learning Wiley India

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**Paper II : PHP & MySQL**

Course Contents	Lect. / Hrs.
Unit I : Overview of the PHP <ul style="list-style-type: none"> <li>• Introduction of different Web Technology</li> <li>• What is PHP</li> <li>• How PHP Works</li> </ul>	05
Unit II : Installing <b>and Configuring</b> PHP <ul style="list-style-type: none"> <li>• Installing Apache http server</li> <li>• Installation of PHP</li> <li>• Introduction, History, Web Brower, Web Server, wamp, Installation and Configuration files.</li> </ul>	10
Unit III : <b>PHP</b> <ul style="list-style-type: none"> <li>• PHP Syntax</li> <li>• PHP Variables</li> <li>• PHP Data Types</li> <li>• PHP Strings</li> <li>• PHP Constants</li> <li>• PHP Operators</li> <li>• PHP Arrays</li> <li>• PHP Superglobals</li> <li>• PHP If...Else</li> <li>• PHP Switch</li> <li>• PHP While Loops</li> <li>• PHP For Loops</li> <li>• PHP Functions</li> <li>• PHP Forms</li> <li>• PHP \$_GET</li> <li>• PHP \$_POST</li> <li>• PHP Advanced (OOPS)</li> <li>• PHP Date</li> <li>• PHP Include</li> <li>• PHP File</li> <li>• PHP File Upload</li> <li>• PHP Cookies</li> <li>• PHP Sessions</li> <li>• PHP Exception</li> <li>• PHP Filter</li> </ul>	20
Unit IV : Overview of MY SQL <ul style="list-style-type: none"> <li>• Introduction about Database</li> <li>• Data Types</li> <li>• DML</li> <li>• DDL</li> <li>• Aggregate functions</li> <li>• Date Time functions</li> <li>• Sub query and join</li> <li>• MySQL Introduction</li> <li>• MySQL Connect</li> <li>• MySQL Create</li> <li>• MySQL Insert</li> </ul>	20

<ul style="list-style-type: none"> <li>• MySQL Select</li> <li>• MySQL Where</li> <li>• MySQL Order By</li> <li>• MySQL Update</li> <li>• MySQL Delete</li> <li>• SQL Functions <ul style="list-style-type: none"> <li>▪ Count()    First()    Last()    UCase()</li> <li>              LCase()</li> <li>▪ Mid()      Len()      Round()    Now()</li> <li>              Format()</li> </ul> </li> </ul>	
<b>Unit V : PHP with Mysql</b> <ul style="list-style-type: none"> <li>▪ PHP MySQL Database</li> <li>▪ PHP Connecting to Database</li> <li>▪ PHP Creating Records</li> <li>▪ PHP Selecting Records</li> <li>▪ PHP Deleting Records</li> <li>▪ PHP Updating Records</li> </ul>	15
<b>Unit VI : PHP Forms and XML</b> <ul style="list-style-type: none"> <li>• Introduction to XML</li> <li>• PHP Form Handling XML</li> <li>• PHP Form Validation (Server side)</li> <li>• PHP Required</li> <li>• PHP XML Parsers</li> <li>• PHP SimpleXML Parser</li> <li>• PHP SimpleXML Get</li> </ul>	20

**References:**

1. Professional PHP Programming by Sascha Schumann , Deepak Veliath , Harish Rawat, Jesus Castagnetto , Chris Scollo by Peer Information Inc.
2. Beginning PHP5, Apache, and MySQL Web Development (Programmer to Programmer) by Elizabeth Naramore , Jason Gerner , Yann Le Scouarnec, Jeremy Stolz , Michael K. Glass , Wrox Publications,ISBN:0-7645-7966-5
3. Web Technology by Pradnya Gotmare, Vijayalaxmi Jeure by Technical Publications Pune, ISBN 978-81-8431-185-3
4. PHP 5.1 for Beginners by Ivan Bayross , Sharanam Shah by Shroff Publishers and Distributers Pvt. Ltd., ISBN 13: 978-81-8404-075-3
5. MySQL/PHP Database Applications by Jay Greenspan, Brad Bulger and David Wall by WILEY dreamtech India Pvt. Ltd. ISBN 81-265-0471-4

### **Paper III : Practical Course(Section-I)**

<b>Course Contents</b>
<ol style="list-style-type: none"><li>1. Demonstration of the Basic Tags of HTML</li><li>2. Demonstrate the List Tags</li><li>3. Design Web Page to create image gallery using image and link tags.</li><li>4. Design Web Page showing information of your college using various texts Formatting tags and frame tag.</li><li>5. Design online admission form using form tag and elements</li><li>6. Demonstration of Internal CSS</li><li>7. Demonstration of External CSS</li><li>8. Demonstration of Inline CSS</li><li>9. Demonstration of class and ID Selectors</li><li>10. Write a Java script for demonstration of various conditional statements</li><li>11. Write a JAVA script for demonstration of various Looping statements</li><li>12. Write a JAVA script for demonstration of various conditional statements</li><li>13. Write a JAVA script for demonstration of various string functions.</li><li>14. Write a JAVA script for demonstration of various date and math functions.</li><li>15. Write a JAVA script for validation of email address.</li><li>16. Write a JAVA script for validation of mobile number.</li></ol>

### **Paper III : Practical Course(Section II)**

<b>Course Contents</b>
<ol style="list-style-type: none"><li>1. Write PHP scripts that demonstrate operators in PHP.</li><li>2. Write PHP script that will display grade based on criteria given below using the marks obtained in M.Sc. examination.<ol style="list-style-type: none"><li>a. Distinction (70 and above)</li><li>b. First Class (60 - 69)</li><li>c. Pass (40 - 59)</li><li>d. Fail (below 40)</li></ol></li><li>3. Write PHP scripts that demonstrate loops.</li><li>4. Write a PHP script that will demonstrate user defined functions.</li><li>5. Implement PHP script that demonstrates inheritance.</li><li>6. Implement PHP script that demonstrate Interface.</li><li>7. Create login form using PHP.</li><li>8. Design a PHP application that will provide a form containing fields to fill Employee details and display filled details to the user.</li><li>9. Write PHP scripts that demonstrates Exception handling.</li><li>10. Write a PHP script to store, retrieve and delete cookies on your local machine.</li><li>11. Write a PHP script to store, retrieve and delete data using session variables.</li><li>12. Design a database in MYSQL. Create table in database. Store, Update, Delete and Retrieve data from the table.</li><li>13. Design a database in MYSQL using PHP. Create table in database. Store, Update, Delete and Retrieve data from the table. Display the data from the</li></ol>

table.

14. Create a simple XML file.

15. Write a PHP script that read XML file