Certificate Course in Web Designing
Year: 2020-21

Paper I: Basic Internet Computing Syllabus

Unit-1 Introduction to Website:

1.1 Introduction
1.2 Site Types
1.3 Site Structure
1.4 Site Organization Model
1.5 Site Planning and Testing

Unit- 2 Web Design Process:

2.1 What is Web Design?
2.2 Web Design Pyramid
2.3 Web Process Model
2.3.a Modified Waterfall Model
2.3.b Joint Application Development Model

Unit-3 Page Types and Navigation Theory:

3.1 Page Types
3.2 Page Size and Margins
3.3 What is Navigation and types of Navigation?

Unit-4 Introduction to Dreamweaver :

4.1 ACTIVATING YOUR WEBSPACE
4.2 GETTING STARTED
4.3 CREATING A HOMEPAGE
4.4 DESIGN AND LAYOUT
4.5 INSERTING AND USING TABLES
4.6 ADDING DESIGN ELEMENTS
4.7 PREVIEWING IN BROWSER
4.8 CREATING HYPERLINKS
4.9 INSERTING SPECIAL MEDIA
4.10 UPLOADING YOUR SITE

Unit-5 Introduction to HTML Programming:

5.1 Structure of HTML Document
5.2 Text Formatting Tags and Character Entity References
5.3 List Tags
5.4 Image and Anchor Tag
5.5 Table Tags
5.6 Frame and Form Tag with Form elements
5.7 Script Tags

Unit-6 Introduction to CSS

6.1 What is CSS
6.2 Types of Style sheet (Internal, External, and Inline)
6.3 Syntax of CSS with Example
6.4 Selectors (class,ID,Group,Element)

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Paper II: Internet Computing with PHP Syllabus

Unit – 1 The Basics of PHP

1.1 Introduction to PHP
1.2 Features & Drawbacks of PHP, How PHP Works?
1.3 Version of PHP
1.4 Lexical Structure of PHP
1.4.1 Structure & Syntax of PHP
1.4.2 PHP with HTML
1.4.3 Comments
1.4.4 Data Types and Variables
1.4.5 Operator
1.5 Flow Control Statements
1.5.1 Conditional Statements
1.5.2 Looping Statements
1.5.3 Exit, Return, Die, Include and Require Statements

Unit – 2 Arrays, Function and String

2.1 Introduction to Array
2.1.1 Index Vs Associative Array
2.1.2 Multidimensional Array
2.1.3 Different array function in PHP
2.1.4 Traversing arrays, Sorting arrays
2.2 Introduction to Function
2.2.1 Defining and Calling a function
2.2.2 Scope of variables in function
2.2.3 Function Parameters
2.2.4 Returning Values from a function
2.2.5 Recursive Functions
2.3 Types of strings in PHP
2.4 Printing functions
2.5 Comparing strings
2.6 Manipulating and Searching strings
2.7 Regular Expressions

Unit – 3 Object-Oriented PHP

3.1 Introduction and Benefits of OOPs
3.2 Creating a Class
3.3 Creating an Object
3.3.1 Adding a Method
3.3.2 Adding a Properties
3.3.3 Visibility (Public, Private and Protected)
3.4 Constructor and Destructors
3.5 Inheritance (Extending a class)
3.6 Abstract classes, Final classes
3.7 Interfaces
3.8 Exception handling
3.9 Serialization

Unit – 4 Web Techniques

4.1 Introduction
4.2 HTTP Basics
4.3 Processing Forms
4.3.1 Methods (Get and Post Method)
4.3.2 Parameters ($_GET and $_POST)
4.3.3 Self Processing Pages
4.3.4 File Uploads
4.4 Maintaining State
4.4.1 Cookies
4.4.2 Sessions
4.4.3 Combining Cookies and Sessions

Unit – 5 PHP with MySQL

5.1 Introduction to MySQL
5.2 Interaction between PHP and MySQL, PHP, PHP functions to manipulate MYSQL database
5.3 Error Checking
5.4 Execute DDL Statements
5.5 Execute DML Statements

Certificate Course in Web Designing
Paper-III

Practical on Basic Internet Computing

1. Demonstration of the Basic Tags of HTML

2. Demonstrate the List Tags

3. Design Web Page showing information of your college using various text Formatting tags.

4. Design Web Page to create image gallery using image and link tags.

5. Design a web site on a theme_____ using frames.

6. Design online admission form using form tag and elements

7. Demonstration of CSS

8. Demonstration of class and ID Selectors

Practical on Internet Computing with PHP

1. Design web pages using HTML that will contain online admission forms.

2. Write PHP scripts that demonstrate fundamentals PHP.

3. Write PHP script that will display grade based on criteria given below using the marks obtained in T.Y.Bsc. Examination.

a. Distinction (70 and above)

b. First Class (60 - 69)

c. Pass (40 - 59)

d. Fail (below 40)

4. Write a PHP script to demonstrate different String functions.

5. Write a PHP script to demonstrate array.

6. Write a PHP script to use Functions (Call by Value, Call by reference).

7. Write a PHP script to Demonstrate OOPS Concept in PHP.

8. Write a PHP script to demonstrate Exception Handling.