Web designing course Syllabus

1. HTML5
2. CSS3
3. JavaScript
4. MySQL
5. PHP

HTML

- HTML – Elements
- HTML – Tags
- HTML – Text
- HTML – Formatting, Pre
- HTML – Attributes
- HTML – Font
- HTML – Text Links
- HTML – Comments
- HTML – Lists
- HTML – Images, Image Links
- HTML – Tables
- HTML – Bgcolor, Color Codes, Color Chart, Background

Web Forms

- HTML – Forms
- HTML – Input
- HTML – Text Fields

Hidden Fields

- HTML – Password
- HTML – Reset
- HTML – Submit
- HTML – Checkboxes, Radio, Select, Hidden Fields, Upload, Textarea
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Form Elements

- `<datalist>`
- `<keygen>`
- `<output>`

Form Input Types

- Color
- Date, Datetime, Datetime-local
- Email
- Month
- Number
- Range
- Search
- Tel
- Url
- Time
- Week

Form Attributes

- `autocomplete`
- `autofocus`
- `form`, `formaction`, `formenctype`, `formmethod`, `formnovalidate`, `formtarget`
- `height` and `width`
- `list`
- `min` and `max`
- `multiple`
- `pattern (regexp)`

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Working with Cookies

- Demystifying cookies
- Writing a cookie
- Reading a cookie
- Displaying a cookie
- Counting with cookies
- Deleting cookies
- Handling multiple cookies
- Cookies in action

The DOM, Nodes, and Objects

- Understanding the DOM
- Adding nodes to the DOM
- Deleting nodes from the DOM
- Deleting specific nodes
- Inserting nodes into the DOM
- Replacing nodes in the DOM

Working with Dates and Times

- Displaying dates
- Displaying times
- Creating a countdown

Real-World Applications of JavaScript

- Creating sliding menus
- Creating pop-up menus
- Creating slideshows with captions
- Creating a stylesheet switcher
PHP & MySQL

Introduction to Web & PHP

- What is PHP?
- The history of PHP
- Why choose PHP?
- Installation overview

First Steps

- Embedding PHP code on a page
- Outputting dynamic text
- The operational trail
- Inserting code comments

Exploring Data Types

- Variables
- Strings
- String functions
- Numbers part one: Integers
- Numbers part two: Floating points
- Arrays
  - Associative arrays
  - Array functions
  - Booleans
  - NULL and empty
  - Type juggling and casting
  - Constants

Control Structures: Logical Expressions

- If statements
- Else and else if statements
- Logical operators
- Switch statements

Control Structures: Loops

- While loops
- For loops
- Foreach loops
- Continue
- Break

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• Understanding array pointers

User-Defined Functions

• Defining functions
• Function arguments
• Returning values from a function
• Multiple return values
• Scope and global variables
• Setting default argument values

Debugging

• Common problems
• Warnings and errors
• Debugging and troubleshooting

Building Web Pages with PHP

• Links and URLs
• Using GET values
• Encoding GET values
• Encoding for HTML
• Including and requiring files
• Modifying headers
• Page redirection
• Output Buffering

Working with Forms and Form Data

• Building forms
• Detecting form submissions
• Single-page form processing
• Validating form values
• Problems with validation logic
• Displaying validation errors
• Custom validation functions
• Single-page form with validations

Working with Cookies and Sessions

• Working with cookies
• Setting cookie values
• Reading cookie values
• Unsetting cookie values
• Working with sessions
MySQL Basics

- MySQL introduction
- Creating a database
- Creating a database table
- CRUD in MySQL
- Populating a MySQL database
- Relational database tables
- Populating the relational table

Using PHP to Access MySQL

- Database APIs in PHP
- Connecting to MySQL with PHP
- Retrieving data from MySQL
- Working with retrieved data
- Creating records with PHP
- Updating and deleting records with PHP
- SQL injection
- Escaping strings for MySQL
- Introducing prepared statements

Building a Content Management System (CMS)

- Blueprinting the application
- Building the CMS database
- Establishing your work area
- Creating and styling the first page
- Making page assets reusable
- Connecting the application to the database

Using Site Navigation to Choose Content

- Adding pages to the navigation subjects
- Refactoring the navigation
- Selecting pages from the navigation
- Highlighting the current page
- Moving the navigation to a function

Application CRUD

- Finding a subject in the database
- Refactoring the page selection
- Creating a new subject form
- Processing form values and adding subjects
- Passing data in the session

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Building the Public Area

- The public appearance
- Using a context for conditional code
- Adding a default subject behaviour
- The public content area
- Protecting page visibility

Regulating Page Access

- User authentication overview
- Admin CRUD
- Encrypting passwords
- Salting passwords
- Adding password encryption to CMS
- New PHP password functions
- Creating a login system
- Checking for authorization
- Creating a logout page

Advanced PHP Techniques

- Using variable variables
- Applying more array functions
- Building dates and times: Epoch/Unix
- Formatting dates and times: Strings and SQL
- Setting server and request variables
- Establishing global and static variable scope
- Making a reference assignment
- Using references as function arguments
- Using references as function return values

Introduction to Object-Oriented Programming (OOP)

- Introducing the concept and basics of OOP
- Defining classes
- Defining class methods
- Instantiating a class
- Referencing an instance
- Defining class properties
OOP in Practice

- Understanding class inheritance
- Setting access modifiers
- Using setters and getters
- Working with the static modifier
- Reviewing the scope resolution operator
- Referencing the Parent class
- Using constructors and destructors
- Cloning objects
- Comparing objects

Working with Files and Directories

- File system basics
- Understanding file permissions
- Setting file permissions
- PHP permissions
- Accessing files
- Writing to files
- Deleting files
- Moving the file pointer
- Reading files
- Examining file details
- Working with directories
- Viewing directory content

Sending Emails

- Configuring PHP for email
- Sending email with mail()
- Using headers
- Reviewing SMTP
- Using PHPMailer