

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

Special Tags

- HTML – Body, Meta
- HTML – Style
- HTML – Div
- HTML – Layouts, Frames

Formatting Tags

- HTML – Bold
- HTML – Paragraphs
- HTML – Headings
- HTML – Line Breaks

HTML – Horizontal Rule

- HTML – Email
- HTML – Italic

HTML5 Syllabus

Semantic Elements

- <article>
- <aside>
- <figcaption>, <figure>
- <footer>, <header>
- <mark>
- <nav>
- <progress>
- <section>
- <summary>
- <time>

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)

CSS

- CSS Syntax
- CSS Selectors (ID, Class, Tags, Attributes)
- CSS Styling

Styling Backgrounds

- Styling Text
- Styling Fonts
- Styling Links
- Styling Lists
- Styling Tables

CSS Box Model

- CSS Border
- CSS Outline
- CSS Margin
- CSS Padding
- CSS Dimension
- CSS Display
- CSS Positioning
- CSS Floating
- CSS Navigation Bar
- CSS Image Gallery
- CSS Image Opacity
- CSS Align

CSS3

- Borders
- border-radius
- Border Images
- Backgrounds

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- Background Size
- background-origin
- Text Effects
- text-shadow
- box-shadow
- Text
- text-overflow
- word-wrap
- word-break
- Fonts

Transforms

- 2D Transforms
- 3D Transforms

Transitions

- transition-delay
- transition-duration
- transition-property
- transition-timing-function

JavaScript

- Cross-checking fields
- Displaying more informative errors
- Verifying radio button selections
- Setting one field with another field
- Verifying email addresses

Handling Events

- Responding to window events
- Responding to mouse movements
- Responding to mouse clicks
- Responding to onBlur form events
- Responding to onFocus form events

- Responding to keyboard events

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

- 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

- Validating form values
- Creating an edit subject form
- Using single-page submission
- Deleting a subject
- Cleaning up
- Assignment: Pages CRUD
- Assignment results: Pages CRUD

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