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Web Development



Course Guide

Web Development training curriculum is designed to develop the skills necessary to implement a full-featured Web site on the Internet, deploying dynamic content using Java Script, designing and developing dynamic web pages and creating, validating, transforming, and formatting data using PHP.



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Web Development Course Contents

Web Development training curriculum is carefully designed to meet the requirements of next generation Web.

Internet Basics

- Protocols
- Servers and there Functions
- Internet Clients, Configuration and Use
- Network Security
- Internet Development
- Internet Site Functionality Design
- Business Concepts

HTML

- Fundamentals of HTML
- Basic HTML tags
- Format text on Web Pages
- Incorporate images
- Create hyperlinks
- Create complex image maps
- Create tables and nested tables
- Insert a form on a web page
- Set, modify form field properties: text field, drop-down, check box, radio button
- Validating HTML

Cascading Style Sheet - CSS

- Introduction
- Designing with Style Sheets
- Style Sheet Syntax
- ID, Class Contextual Selectors
- Linked (External) Style Sheets
- Cascading Order
- Properties: Text, Font, Colors, Backgrounds, Borders
- Floating Elements
- Absolute and Relative Positioning i.e. Div's etc.
- Layering Elements with the Z-Index
- Animation of objects

Javascript & Document Object Model - DOM

- Introduction to JavaScript
- Variables and Objects
- Decision Making Statement: If, Switch
- Loops: For, While & Do While
- Arrays
- Functions and Prototypes
- Core JavaScript Objects
- DOM Introduction
- DOM Event Model

 DOM Functions i.e. Document.Write, Document.GetElementById, Document.bgColor etc.

JQuery

- Introduction
- Install & Configuration
- jQuery Syntax
- Selectors
- Events: Hide/Show, Fade, Slide, Animate, Stop, CSS
- jQuery Callback
- jQuery Chaining

Extensible Markup Language – XML

- What is XML?
- XML Benefits
- XML Holds Data, Nothing More
- XML Separates Structure from Formatting
- XML Promotes Data Sharing
- XML is Human-Readable

Document Type Definition – DTD

- Introduction
- DTD Building Blocks
- Elements & Attributes
- Entities
- Validation

DreamWeaver

• Interactivity

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- Application Development Environment
- Collaboration & Productivity
- Site Management and Media
- Customizing & Extending
- Page Authoring, Design & Management

PHP HyperText PreProcessor - PHP

- Introduction
- PHP Document
 - Language Fundamentals: Variables, Constants
- Decision Making Statement: If, ? & Switch
- Loops: For, For-Each While & Do While
- Statement: Break, Continue
- Operators: Airthmentic, String, Assignment, Comparison, Incr/Decr etc.
- PHP functions:
- Arrays: Numerically Indexed, Associative
- Array Functions: Join, Explode, Implode, In_Array, Array_Search.
- String Functions: Strlen, Printf, Substr, Str_Replace
- Server-Side Processing

- Processing Forms via GET/POST
- GET or POST?
- State and Persistence: Cookies/Session
- Web Application Development
- Introduction to PHP Frameworks
- Basic OOP

SQL & MySQL

- What is SQL & MySQL and its Versions?
- MySQL CLI:mysql/GUI:phpmyadmin
- Administration & Query Browser
- Creating Databases and Tables
- Using keys

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- Table Types in MySQL
- Data Types:Varchar, Int, Char, Date and Time

MySQL User Accounts, Privileges and Access Control

www.ict-trainings.com/curriculum/webdev-leaflet.pdf

Deleting databases and tables
Inserting, Retrieving, Updating and Deleting data

MySQL documentation

Connecting to MySQL

Retrieving the data set

Executing SQL

Refining the fetch

Integrating PHP and MySQL

Connecting to a database

PHP interfacing with MySQL