

Web Development Outline

Module 1: Foundations of Web Development

- Understanding the History of Web/Mobile Development
- Research, Wireframing, and Prototyping Techniques
- Introduction to Mockup Designing with Adobe Photoshop/Fireworks
- Exploring the Psychology of Color and Typography in Web Design
- Tools and Methods for Mockup Design and Vector Design
- Project Work: Designing Mockup

Module 2: HTML5 and CSS3 Fundamentals

- Semantic Markup with HTML5
- Structural Tags and XHTML vs. HTML5 Elements
- HTML5 Forms and CSS3 Styling
- CSS3 Layouts and Box Model
- Selectors and Responsive Design with Media Queries
- Fonts, Effects, and Frameworks

Module 3: Introduction to JavaScript and jQuery

- JavaScript Basics: Objects, Properties, and Methods
- Understanding the Document Object Model (DOM)
- Introduction to jQuery and its Features
- Implementing JavaScript and jQuery in Live Projects
- Final Project: Assessments of HTML, CSS, and JavaScript Skills

Module 4: PHP/MySQL Development

- Server Installation and PHP Background
- PHP Syntax, Data Types, and Debugging
- Web Concepts and Embedding PHP into HTML
- Arrays, Operators, and Control Structures
- Form Handling and Global Variables
- Functions, Templating, and String Manipulation

Module 5: Database Management with MySQL

- Introduction to Database and RDBMS Technology

- SQL Basics: Database Creation, Table Operations
- Database Management Tools and MySQL Workbench Usage
- CRUD Operations: Inserting, Updating, Deleting Data
- Working with Queries and Altering Table Structures

Module 6: Web Security in PHP

- Understanding Web Security Principles
- Security Concerns in MySQL and Preventing SQL Injection
- Handling Cross-Site Scripting (XSS) Vulnerabilities

Final Project Courses Outline

- File Upload Using FileZilla/CuteFTP
- CPanel/Webmail and Domain Registration
- Concepts of Pre-Processors: Less, Sass
- Tips for Enhancing Front-End Development
- Pro Tips for Job Interviews

Throughout the course, students will engage in practical projects to reinforce their learning and develop real-world skills in web development.