



A.D.COMPUTER TRAINING CENTER

An ISO 9001:2015 Certified Organization

Enrolled With Ministry of Micro, Small, and Medium Enterprises (MSME)

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Industrial Training: Web Development Syllabus

Module 1: Introduction to Web Development

- What is web development?
- Client-side vs. server-side
- Tools and setup (IDEs, browsers, servers like XAMPP/WAMP)

Module 2: HTML (Hypertext Markup Language)

- Introduction to HTML
- Basic structure: `<!DOCTYPE>`, `<html>`, `<head>`, `<body>`
- Headings, paragraphs, lists, links
- Images, audio, video
- Tables and forms
- Semantic HTML: `<header>`, `<footer>`, `<nav>`, etc.
- Accessibility basics

Module 3: CSS (Cascading Style Sheets)

- Introduction to CSS
- Inline, internal, and external CSS
- Selectors and combinators
- Colors, fonts, units (px, em, rem, %)
- Box model: margins, borders, padding
- Positioning: static, relative, absolute, fixed
- Flexbox and Grid layout
- Responsive design (media queries)
- CSS animations and transitions

Module 4: JavaScript (JS) Basics

- Introduction to JS
- Variables, data types, operators
- Control structures (if-else, switch, loops)
- Functions and scope
- DOM manipulation
- Event handling (click, hover, etc.)
- Forms and validation
- Basic debugging and console usage

Module 5: Advanced JavaScript

- Arrays and objects
- ES6+ features (let/const, arrow functions, template literals)
- JSON and local storage
- Fetch API / AJAX basics
- Introduction to libraries (like jQuery)

Module 6: PHP (Hypertext Preprocessor) Basics

- Introduction to PHP and server-side scripting
- PHP installation (using XAMPP/WAMP)
- Variables, data types, operators
- Control structures
- Functions
- Forms handling with PHP (\$_GET, \$_POST)
- File inclusion (include, require)

Module 7: PHP with MySQL (Database Basics)

- Introduction to MySQL
- Connecting to a MySQL database with PHP (mysqli, PDO)
- Basic CRUD operations (Create, Read, Update, Delete)
- Prepared statements and security (SQL injection prevention)
- Displaying database data in HTML

Module 8: Project & Deployment

- Building a simple CRUD-based web application
- Best practices for security (input validation, sanitization)
- Hosting basics (cPanel, FTP)
- Introduction to version control (Git)