



+91 90341 20220

services@digitalmatty.com

www.digitalmatty.com

Digital Matty Pvt Ltd, Ground floor,  
Hotel Gopiraj Complex, Surkhab  
Chowk, Sirsa, Haryana (125055)

## ▶ **Web Development(6 months Industrial Training) Course Structure**

### **First Month (Month 1) : Introduction to Web Development**

Week 1-2:

- Introduction to Web Technologies: HTML, CSS, JavaScript
- Setting up Development Environment: Text editors, browsers, developer tools
- Basics of HTML: Structure, tags, attributes
- Basic CSS: Styling elements, selectors, properties

Week 3-4:

- Intermediate HTML: Forms, tables, semantic HTML
- Intermediate CSS: Flexbox, grid layout, responsive design
- Introduction to Git and Version Control

### **Second Month (Month 2) : Frontend Development**

Week 1-2:

- Advanced CSS: CSS preprocessors (Sass/Less), animations, transitions
- JavaScript Fundamentals: Variables, data types, operators, control flow
- DOM Manipulation: Selecting elements, modifying content, event handling

Week 3-4:

- Advanced JavaScript: Functions, scope, closures, ES6 features
- AJAX and Asynchronous JavaScript: Fetch API, Promises
- Introduction to Frontend Frameworks: React.js or Vue.js (Choose one)

### **Third Month (Month 3) : Backend Development**

Week 1-2:

- Introduction to Backend Development: Server, client, request-response cycle
- Setting up a Local Development Server: Node.js, Express.js
- RESTful API Design Principles



+91 90341 20220

services@digitalmatty.com

www.digitalmatty.com

Digital Matty Pvt Ltd, Ground floor,  
Hotel Gopiraj Complex, Surkhhab  
Chowk, Sirsa, Haryana (125055)

Week 3-4:

- Working with Databases: MySQL, MongoDB (Choose one)
- CRUD Operations: Creating, reading, updating, deleting data
- Authentication and Authorization: Sessions, JWT, OAuth

## Fourth Month (Month 4) : Full Stack Development

Week 1-2:

- Integrating Frontend with Backend: API calls, data fetching
- Deployment Basics: Deploying static sites, deploying Node.js applications

Week 3-4:

- Building a Full Stack Project: From ideation to deployment
- Project Management Tools: Agile methodology, task tracking

## Fifth Month (Month 5) : Advanced Topics

Week 1-2:

- Performance Optimization: Minification, lazy loading, caching
- Security Best Practices: Cross-site scripting (XSS), Cross-site request forgery (CSRF), SQL injection

Week 3-4:

- Testing and Debugging: Unit testing, integration testing, debugging tools
- Continuous Integration and Continuous Deployment (CI/CD) Pipeline

## Sixth Month (Month 6) : Final Project and Recap

Week 1-2:

- Final Project Development: Applying all learned concepts to build a comprehensive web application
- Code Review and Feedback Sessions

Week 3-4:

- Final Project Presentation: Presenting the project to peers and mentors
- Graduation and Certificate Distribution