

WEBSITE DEVELOPMENT SYLLABUS

Module 1: Introduction to Website Development

- What is website development
- Types of websites (static vs dynamic)
- Frontend vs backend overview
- How the internet and browsers work
- Development tools setup (VS Code, browser tools)

Module 2: HTML (Structure of Web Pages)

- HTML5 basics
- Tags, elements, attributes
- Headings, paragraphs, links, images
- Lists and tables
- Forms and input fields
- Semantic HTML

Module 3: CSS (Design & Layout)

- CSS basics (inline, internal, external)
- Colors, fonts, text styling
- Box model (margin, padding, border)
- Flexbox and Grid
- Responsive design (media queries)
- Animations and transitions

Module 4: JavaScript (Interactivity)

- Introduction to JavaScript
- Variables, data types, operators
- Functions and events

- DOM manipulation
- Form validation
- ES6+ basics

Module 5: Responsive Design

- Mobile-first approach
- Breakpoints and layouts
- Cross-browser compatibility
- Testing on different devices

Module 6: UI Frameworks

- Bootstrap basics
- Tailwind CSS basics
- Building responsive UI components
- Layout design techniques

Module 7: Version Control

- Introduction to Git
- GitHub basics
- Commit, push, pull
- Collaboration workflow

Module 8: Backend Basics

- Introduction to backend development
- Basics of PHP or Node.js
- Server-side scripting
- Handling forms with backend

Module 9: Database Basics

- Introduction to databases
- MySQL basics
- CRUD operations
- Connecting database with backend

Module 10: API Basics

- What is an API
- REST API concept
- Fetching data using JavaScript
- JSON handling

Module 11: SEO Basics

- On-page SEO
- Meta tags and headings
- Image optimization
- Website speed basics

Module 12: Security Basics

- Input validation
- Preventing XSS and CSRF
- Secure form handling

Module 13: Deployment

- Domain and hosting
- Uploading website to server
- Using FTP / cPanel
- Basic server configuration

Module 14: Maintenance & Optimization

- Website performance optimization
- Debugging issues
- Updating content
- Backup strategies

Module 15: Real-World Projects

- Personal portfolio website
- Business website
- Blog website
- Landing page