

Web applications

In today's digital age, every business, organization, and professional needs a strong online presence — and WordPress has become the most powerful tool to make that possible. This course is designed to equip you with the knowledge and hands-on skills needed to build, customize, and manage modern websites with ease. Whether you're a beginner with no coding experience or an aspiring web designer seeking to sharpen your skills, this program takes you step-by-step from the basics of WordPress to advanced web design techniques. You'll learn how websites work behind the scenes, understand hosting and database integration, and gain practical experience creating professional sites — from personal portfolios to full-scale e-commerce platforms and school websites.

Additionally, you'll explore the integration of HTML, CSS, Java Script, SEO, and plugins to design professional, functional, and optimized websites for clients.

Course Outline

Module 1: Introduction to WordPress

Module 2: Web Foundations

Module 3: WordPress and Databases

Module 4: Themes and Customization

Module 5: Plugins and Extensions

Module 6: Website Projects

Module 7: Advanced WordPress Design

Module 8: HTML (Structure of a Website)

Module 9: CSS (Styling the Website)

Module 10: JavaScript (Interactivity)

Module 11: Optimization and SEO

Module 12: Final Project

COURSE CURRICULUM

Module 1: Introduction to WordPress

- Understanding WordPress and its ecosystem
- Why WordPress uses PHP as its primary language
- Benefits of using WordPress
- WordPress.org vs WordPress.com
- WordPress interface walkthrough(Dashboard, Menus, Settings).

Module 2: Web Foundations

- Basics of domains and hosting (understanding how websites work behind the scenes)
- Installing and configuring XAMPP for local development
- Setting up WordPress locally

Module 3: WordPress and Databases

- Introduction to MySQL databases
- Creating and integrating databases with WordPress

- Understanding wp-config and database connections
- Managing and backing up databases

Module 4: Themes and Customization

- Choosing the perfect WordPress theme
- Installing and customizing themes
- Customizing layout, color, and typography
- Building your first personal/resume site

Module 5: Plugins and Extensions

- Introduction to WordPress plugins
- Installing and configuring plugins
- Must-have plugins for different website types
- Essential plugins for SEO, security, backups, and design
- Managing plugin updates and performance

Module 6: Website Projects (Real World Applications)

- Building a professional blog
- Setting up and running an e-commerce site
- Adding products and other functionalities in an e-commerce
- More on woocommerce
- Adding custom fields and post types
- Building a complete school or humanitarian website
- Setting up a School Management System

Module 7: Advanced WordPress Design

- Creating custom templates in WordPress

- Integrating HTML and CSS for design flexibility
- Introduction to page builders (Elementor, Gutenberg, etc.)

Module 8: HTML (Structure of a Website)

Basics of HTML

- HTML syntax and structure
- Headings, paragraphs, lists, links, and images
- Forms and inputs
- Tables and semantic tags

HTML for WordPress

- How WordPress uses HTML in themes
- Editing and creating HTML templates (header.php, footer.php, page.php)
- Embedding multimedia and shortcodes
- HTML for posts, pages, and widgets

Module 9: CSS (Styling the Website)

Basics of CSS

- CSS syntax and selectors
- Colors, backgrounds, margins, padding
- Fonts and typography
- Box model and positioning

Advanced CSS for WordPress

- Responsive design with media queries
- Styling WordPress menus, widgets, and forms
- Using CSS to customize themes without touching core files
- Creating custom styles via style.css in a child theme

- Using the WordPress Customizer for styling

Module 10: JavaScript (Interactivity)

JavaScript Fundamentals

- Variables, data types, operators
- Functions, loops, conditionals
- DOM manipulation (getElementById, querySelector)
- Events (click, submit, hover)

JavaScript in WordPress

- Adding custom scripts correctly using `wp_enqueue_script()`
- Working with the DOM inside themes and plugins

- Creating interactive elements (modals, sliders, menus)
- Introduction to jQuery (commonly used in WordPress)

Module 11: Optimization and SEO

- Website speed optimization
- WordPress SEO best practices
- Securing and maintaining your WordPress site
- Image compression and caching
- SEO plugins setup (Yoast, RankMath)

Module 12: Final Project

- Developing and presenting a complete functional website