

TAILWIND CSS SYLLABUS

Module 1: Introduction to Tailwind CSS

- What is Tailwind CSS
- Utility-first CSS concept
- Advantages of Tailwind over traditional CSS
- Installing Tailwind (CDN & npm setup)
- Project structure setup

Module 2: Core Concepts

- Utility classes overview
- Colors, background, gradients
- Typography (font size, weight, line height)
- Spacing (margin, padding)
- Width & height utilities

Module 3: Layout & Flexbox

- Display utilities (block, inline, flex)
- Flexbox (justify, align, direction)
- Gap utilities
- Building responsive layouts

Module 4: Grid System

- CSS Grid basics
- Grid columns & rows
- Gap and alignment
- Responsive grid layouts

Module 5: Responsive Design

- Mobile-first approach
- Breakpoints (sm, md, lg, xl)
- Responsive utilities
- Designing for multiple devices

Module 6: Components Styling

- Buttons
- Cards
- Forms
- Navbar
- Modals

Module 7: Pseudo Classes & States

- Hover, focus, active states
- Group and peer utilities
- Dark mode support

Module 8: Customization

- Tailwind configuration file
- Custom colors, fonts, spacing
- Extending default theme
- Plugins

Module 9: Animation & Transitions

- Transition utilities
- Transform (scale, rotate, translate)
- Animations
- Creating interactive UI

Module 10: Forms & UI Design

- Styling form elements
- Input fields, checkboxes, radio buttons
- Validation UI design
- Accessibility basics

Module 11: Optimization & Production

- Purging unused CSS
- Minification
- Performance optimization

Module 12: Tailwind with Frameworks

- Using Tailwind with React
- Using Tailwind with Laravel Blade
- Using Tailwind with Vue

Module 13: Best Practices

- Writing clean utility classes
- Reusable components
- Avoiding code duplication
- Maintainable design system

Module 14: Real-World Projects

- Landing Page Design
- Portfolio Website
- Admin Dashboard UI
- E-commerce UI