

★ **Tailwind CSS**

■ **Module 1: Introduction to Tailwind CSS**

- ✓ What is Tailwind CSS?
- ✓ Utility-first CSS methodology
- ✓ Why Tailwind over traditional CSS frameworks (Bootstrap, Material UI)?
- ✓ **Installation Methods**
 - CDN, Using Tailwind CLI
 - Using PostCSS, Setting up Tailwind with Vite
 - Setting up Tailwind with React, Next.js (optional)
- ✓ **Understanding tailwind.config.js**
 - Theme configuration, Extending theme
 - Plugins section, Content paths

■ **Module 2: Core Concepts**

- ✓ **Utility Classes Philosophy**
- ✓ **Responsive Design with Tailwind**
 - Mobile-first concept
 - Breakpoints (sm, md, lg, xl, 2xl)
 - Responsive classes (md:text-xl, etc.)
- ✓ **Hover, Focus & State Variants**
 - hover: focus: active: disabled: group-hover:
 - peer-focus:
- ✓ **Dark Mode**
 - Class-based and Media-based
 - Building a dark mode toggle

■ **Module 3: Styling Fundamentals**

- ✓ **Color System**
 - Background: bg-red-500
 - Text colors: text-blue-600
 - Borders: border-gray-300
- ✓ **Spacing**
 - Margin: m-..., mx-..., my-...
 - Padding: p-...
- ✓ **Typography**
 - Font size: text-2xl
 - Font weight: font-bold
 - Leading, letter-spacing
 - Line clamp utility
- ✓ **Borders & Shadows**
 - Border radius
 - Box shadows
 - Ring utilities
- ✓ **Layout Utilities**

- Display classes
- Positioning
- Z-index
- Overflow
- Container class

■ **Module 4: Flexbox & Grid (Tailwind Approach)**

- ✓ **Flexbox**
 - flex, flex-col, flex-row
 - Justify & align
 - gap
 - Wrap utilities
- ✓ **Grid**
 - grid-cols-2, grid-cols-12
 - Auto rows, auto columns
 - Grid gap
 - Responsive grids

■ **Module 5: Tailwind Components**

- ✓ **Buttons**
 - Basic buttons
 - Gradient buttons
 - Outline buttons
- ✓ **Forms**
 - Inputs
 - Labels
 - Form layout
 - Custom form styling (with @tailwindcss/forms plugin)
- ✓ **Cards**
- ✓ **Navigation Bars**
- ✓ **Hero Sections**
- ✓ **Pricing Tables**
- ✓ **Footers**

■ **Module 6: Customizing Tailwind**

- ✓ **Theme customization**
 - Extending colors
 - Adding custom spacing
 - Adding fonts
 - Adding shadows
- ✓ **Custom CSS + Tailwind**
 - @apply directive
 - Writing component classes
- ✓ **Creating Tailwind Plugins**

- Custom utilities
- Custom components

■ **Module 7: Advanced Tailwind Concepts**

✓ **JIT (Just-in-Time compiler)**

✓ **Arbitrary Values**

- `bg-[#1F2937]`
- `w-[550px]`

✓ **Container Queries**

✓ **Layer System**

- `@layer base`
- `@layer components`
- `@layer utilities`

✓ **Reusability and architecture**

- Component-driven design
- Building a design system

■ **Module 8: Tailwind + JavaScript Frameworks**

(Optional)

✓ **Tailwind with React**

✓ **Tailwind with Next.js**

✓ **Tailwind with Vue**

✓ **Tailwind with Angular**

✓ **Using Tailwind UI (Paid) & Flowbite (Free UI components)**

■ **Module 9: Animations & Transitions**

✓ **Transition utilities**

- `transition`
- `duration-300`
- `ease-in-out`

✓ **Keyframe Animations**

- Using built-in classes (`animate-bounce`, `animate-ping`)
- Creating custom animations in `tailwind.config.js`

■ **Module 10: Production Optimization**

✓ **Purging unused CSS**

✓ **Performance optimization**

✓ **Minification**

✓ **Code structuring**

■ **Module 11: Real-World Projects**

Mini Projects

- Personal Portfolio Page
- Responsive Navbar
- Login/Signup Page
- Blog Layout
- Pricing Table UI

Final Projects

- Full Landing Page
- E-Commerce Product Page
- Admin Dashboard UI
- SaaS Website Home Page
- Educational Institute Website UI

■ **Module 12: Assignments & Practice**

✓ **Weekly Assignments**

- Create UI components
- Convert Figma designs to Tailwind
- Improve responsiveness of layouts

✓ **Final Assessment**

- Build a full multi-page responsive website using Tailwind

■ **Module 13: Extra Optional**

✓ **Integration with Figma**

✓ **Tailwind with Headless UI**

✓ **Themes & template marketplaces**