



TECHNOCATION FREELANCING TRAINING INSTITUTE & SOFTWARE HOUSE

# Professional Bootstrap Course Outline

## Module 1: Introduction to Bootstrap

- What is Bootstrap? (Overview & History)
  - Advantages of Using Bootstrap
  - Installing Bootstrap (CDN vs. Local Setup)
  - Exploring Bootstrap File Structure
  - Understanding Mobile-First Design
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## Module 2: Bootstrap Grid System & Layout

- Understanding the 12-Column Grid System
  - Rows, Columns, and Containers
  - Responsive Breakpoints & Flexbox Utilities
  - Nesting & Offsetting Columns
  - Auto Layout & Alignment
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## Module 3: Bootstrap Components & UI Elements

### Typography & Forms

- Using Bootstrap Typography (Headings, Paragraphs, Lists)
- Customizing Forms (Inputs, Select, Checkboxes, Radio Buttons)
- Form Validation & Floating Labels

### Buttons & Alerts

- Button Styles, Sizes & Groups

- Adding Alerts, Badges & Progress Bars

## **Navigation & Menus**

- Building Responsive Navigation Bars
- Dropdowns, Breadcrumbs & Pagination
- Implementing Sidebar & Sticky Navbar

## **Cards & Modals**

- Creating Stylish Cards for UI Design
- Implementing Modals & Dialog Boxes

## **Tables & Lists**

- Styling Tables & Adding Hover Effects
  - Creating List Groups & Panels
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## **Module 4: Bootstrap Flexbox & Utility Classes**

- Using Flexbox for Responsive Layouts
  - Alignment & Spacing Utilities (Margins, Padding)
  - Display & Visibility Classes
  - Backgrounds, Borders & Shadows
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## **Module 5: Advanced Bootstrap Components**

- Creating Accordions & Collapse Panels
  - Using Carousels & Sliders
  - Implementing Tooltips & Popovers
  - ScrollSpy & Smooth Scrolling
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## **Module 6: Bootstrap Themes & Customization**

- Overriding Bootstrap Styles with CSS
- Using Sass for Bootstrap Customization
- Creating Dark Mode & Themed UI
- Integrating Font Awesome & Google Fonts

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## **Module 7: Responsive Web Design with Bootstrap**

- Making Websites Mobile-Friendly
- Handling Different Screen Sizes & Resolutions
- Using Media Queries & Custom Breakpoints
- Implementing Responsive Images & Videos

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## **Module 8: Bootstrap with JavaScript & jQuery**

- Using Bootstrap's JavaScript Components
- Handling Events with jQuery & JavaScript
- Implementing Smooth Animations & Transitions

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## **Module 9: Building Real-World Projects with Bootstrap**

- Developing a Responsive Landing Page
- Creating an E-commerce Website Template
- Designing a Blog or Portfolio Website
- Building a Dashboard & Admin Panel

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## **Module 10: Deployment & Optimization**

- Minifying & Optimizing Bootstrap Files
- Hosting a Bootstrap Website (GitHub Pages, Netlify, Vercel)
- Performance Optimization & SEO Best Practices