

BOOTSTRAP SYLLABUS

Module 1: Introduction to Bootstrap

- What is Bootstrap?
- Advantages of using Bootstrap
- Including Bootstrap (CDN and local download)
- Folder structure overview
- Bootstrap version overview (focus on v5.x)
- Basic HTML structure with Bootstrap

Module 2: Bootstrap Grid System & Layout

- Container types (.container, .container-fluid)
- Rows and Columns (.row, .col)
- Responsive breakpoints (xs, sm, md, lg, xl, xxl)
- Nesting and offsets
- Flexbox utilities
- Aligning and ordering columns

Module 3: Bootstrap Typography & Utilities

- Headings, paragraphs, lists
- Text alignment, transformation, and colors
- Background colors and borders
- Spacing utilities (margins, padding)
- Display and visibility utilities

Module 4: Bootstrap Components (Part 1)

- Buttons (.btn, .btn-outline, .btn-group)
- Images and thumbnails
- Badges and alerts
- Progress bars
- Breadcrumbs and pagination
- Cards (headers, footers, images, content)

Module 5: Bootstrap Components (Part 2)

- Navbar (responsive menus, brand, toggler)
- Dropdowns and collapses
- Modals (dialog boxes)
- Tooltips and popovers
- Toasts (notifications)
- Carousel (image slider)

Module 6: Bootstrap Forms

- Form layout options (stacked, inline, grid)
- Form controls (input, textarea, select, checkbox, radio)
- Validation states and feedback
- Input groups and floating labels
- Buttons and form actions

Module 7: Bootstrap Tables & Icons

- Table classes (.table, .table-striped, .table-bordered)
- Responsive tables

- Table color variants
- Introduction to **Bootstrap Icons**
- Using icons in buttons, navbars, and lists

Module 8: Responsive Design & Flex Utilities

- Responsive breakpoints and media queries
- Flex utilities: .d-flex, .justify-content-*, .align-items-*
- Ordering and wrapping elements
- Responsive images and embeds
- Hiding and showing content based on screen size

Module 9: Customization & Theming

- Changing colors, fonts, and components
- Using CSS variables and custom CSS
- Custom themes and overriding defaults
- Introduction to Sass in Bootstrap (optional advanced topic)

Module 10: Integration & Best Practices

- Integrating Bootstrap with jQuery and JS libraries
- Performance optimization (loading only what you need)
- Accessibility in Bootstrap
- Bootstrap with React/Angular (overview)
- Migrating from older versions (v4 to v5)

Final Project

Project Ideas:

- Responsive **portfolio website**
- **Business landing page** with navbar, carousel, and contact form
- **E-commerce homepage** (with product cards, modals, and tables)
- **Blog website** with responsive layouts and pagination

Optional Add-ons

- Introduction to **Bootstrap Studio / Figma UI Kits**
- Combining Bootstrap with **Font Awesome**
- Using **Bootstrap + jQuery plugins**
- Deploying Bootstrap projects (GitHub Pages / Netlify)