

## jQuery SYLLABUS

### Module 1: Introduction to jQuery

- What is jQuery? Why use it?
- History and importance of jQuery
- Downloading and including jQuery (CDN and local)
- \$ symbol and the jQuery function
- Document ready event (`$(document).ready()`)

### Module 2: jQuery Selectors

- Basic selectors (`#id`, `.class`, `element`)
- Attribute selectors
- Hierarchy selectors (`parent child`, `:first`, `:last`, `:eq()`, etc.)
- Filtering and chaining
- Traversing the DOM (`.parent()`, `.children()`)

### Module 3: jQuery DOM Manipulation

- Getting and setting content (`.html()`, `.text()`, `.val()`)
- Adding and removing elements (`.append()`, `.prepend()`, `.after()`, `.before()`, `.remove()`)
- CSS class manipulation (`.addClass()`, `.removeClass()`, `.toggleClass()`)
- Inline CSS manipulation (`.css()`)

### Module 4: jQuery Events

- Event binding (`.click()`, `.dblclick()`, `.hover()`, `.focus()`, `.blur()`)
- Event object and event delegation (`.on()`, `.off()`)
- Keyboard and form events
- Preventing default actions and stopping propagation

### Module 5: jQuery Effects and Animation

- Basic effects: `.show()`, `.hide()`, `.toggle()`
- Fading and sliding: `.fadeIn()`, `.fadeOut()`, `.slideUp()`, `.slideDown()`
- Custom animations with `.animate()`
- Animation queue and callbacks

### Module 6: jQuery and Forms

- Accessing form values
- Validating form fields
- Disabling/enabling buttons and fields
- Handling form submission events

### Module 8: jQuery Utilities and Plugins

- Utility methods (`$.each()`)
- Using third-party plugins (sliders, modals, etc.)

- Best practices in plugin use

### Module 9: jQuery UI & Advanced Topics

- Overview of jQuery UI
- Draggable, Droppable, Sortable, Resizable
- UI widgets: Datepicker, Accordion, Tabs
- Theming and customization