**Prasad V Potluri Siddhartha Institute of Technology::Autonomous**

**Department of Computer Science & Engineering**

**III B. Tech - I Semester**

 **A.Y: 2024-2025 Web Application Development 20CS3581A**

**Course Outcomes:**

* **Apply** the principles of HTML for an enhanced user experience using elements, formatting, and user-centric design.
* **Apply** CSS for designing responsive websites with selectors, typography, effects, security, accessibility, and design practices.
* **Apply** Bootstrap for crafting web pages with layout, styling, navigation, and forms.
* **Apply** JavaScript to craft dynamic web applications with key concepts and security.

**Course Contents:**

**Chapter-1:** Introduction WWW,URL,HTTP,HTTPS,FTP,MIME, Basic Web Technologies, Why HTML, What is HTML, HTML Page Structure, HTML Elements Categories, HTML Block and Inline Elements, HTML Element Attributes, Comments, Meta tag In HTML, Sectioning Elements, Grouping Elements in HTML, Link Element ( <a>….. </a>), HTML Formatting Elements or Text-level semantic elements , HTML Entities or character, HTML Global Attributes, HTML Table Element, HTML Forms-Attributes, Elements, Input Type and value attribute, Embedded elements

**Chapter-2:** Introduction to CSS, Selectors, Cascading Order, Typography, Box Model, Layouts, Responsive Web Design, Adding Awesome Effects, CSS Security- CSS Accessibility and Best Practices

**Chapter-3:** Bootstrap5- Bootstrap – Introduction, Page Layout, Content Styling, Content Structuring, Navigation, Form.

**Chapter-4:** Java Script-Introduction To Java Script, Identifiers, Data Types, Operators, Statements and Expressions, Loops, Functions, Classes, Event Handling, Objects, Iterables, Asynchronous Programming, Modular Programming, JavaScript – Security