

BCSE0251: FULL STACK USING SCRIPTING TECHNOLOGIES

Objective: The objective is to provide a comprehensive study of the frontend. It stresses the strengths of Web, which provide students with the means of writing efficient, maintainable, and portable code.

Credits: 03

L-T-P: 3-0-0

Module No.	Content	Teaching Hours
I	<p>Hyper Text Mark-up Language (HTML5): Introduction HTML, HTML Basics, HTML Elements, HTML5 Semantic, HTML Attributes, HTML Headings, HTML Paragraph, HTML Styles, HTML Formatting, HTML Quotations, HTML Computer Code, HTML Comments & Colours, HTML CSS, Links and Images, HTML Lists, HTML Blocks, HTML Classes, HTML Layout, HTML Responsive, HTML iframes, HTML JavaScript, HTML Head, HTML Entities and URI Code, HTML Symbols and XHTML, HTML Charset and Forms</p> <p>Cascading Style Sheets (CSS3): Introduction CSS3, CSS3 Syntax, CSS3 How To, CSS3 Colours, CSS3 Backgrounds, CSS3 Borders, CSS3 Padding, CSS3 Height/Width, CSS3 Gradients, CSS3 Shadows, CSS3 Text, CSS3 Fonts, CSS3 2D Transforms, CSS3 3D Transforms, CSS3 Links, CSS3 Lists, CSS3 Tables, CSS3 Box Model, CSS3 Outline, CSS3 Display, CSS3 Max-width, CSS3 Position, CSS3 Float, CSS3 Inline-block, CSS3 Align, CSS3 Combinators, CSS3 Pseudo-class, CSS3 Pseudo-element, CSS3 Navigation Bar, CSS3 Dropdowns, CSS3 Tooltips, CSS3 Images,</p>	14
II	<p>Cascading Style Sheets (CSS3): CSS3 Attr Selectors, CSS3 Forms, CSS3 Counters, CSS3 Animations, CSS3 Button, CSS3 Pagination, CSS3 Multiple Columns, CSS3 User Interface, CSS3 Box Sizing, CSS3 Filters, CSS3 Media Queries, CSS3 Responsive</p> <p>JavaScript: JavaScript Scope, JavaScript Events, JavaScript Strings, JavaScript Numbers, JavaScript Math, JavaScript Arrays, JavaScript Boolean, JavaScript Comparisons, JavaScript Conditions, JavaScript Switch, JavaScript Loops, JavaScript Type Conversion, JavaScript RegExp, JavaScript Errors, JavaScript Debugging, JavaScript Hoisting, JavaScript Strict Mode, JavaScript Functions, JavaScript Objects, JavaScript Forms, JavaScript HTML DOM, JavaScript BOM</p>	13
III	<p>Bootstrap: Introduction to Bootstrap, Bootstrap Basics, Bootstrap Grids, Bootstrap Themes, Bootstrap CSS, Bootstrap JS</p> <p>jQuery: Introduction to jQuery, jQuery Syntax, jQuery Selectors, jQuery Events, jQuery Effects, jQuery HTML, jQuery Traversing, jQuery AJAX</p>	13

Text Books:

- HTML 5 Black Book (Covers CSS3, JavaScript, XML, XHTML, AJAX, PHP, jQuery) by DT Editorial Services, 2016
- Learning Web Development with Bootstrap and AngularJS by Stephen Radford,

Outcome: After completion of course, student will be able to:

- CO1: Implement interactive web page(s) using HTML, CSS and JavaScript.
- CO2: Design a responsive web site using HTML5 and CSS3.
- CO3: Demonstrate Rich Web Applications.
- CO4: Use newer HTML5 tags with associated CSS instructions to organize information and content.