

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,  
LONERE-RAIGAD**

**Department of Computer Engineering**

**B.Tech. Final Year A.Y.-2022-2023**

**Semester: - VII (ODD) Subject: - Full Stack Development Laboratory**

**Subject Code: - BTCOL705**

**Subject Co-ordinator: - Mr. Rahul Rathod**

**Laboratory Name: - B3**

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**[Unit 1] Basic HTML, Advanced HTML**

**[4 Hrs]**

**HTML5:** HTML5 Doctype, Some New HTML5 Elements, HTML5 Header and Footer, Allow spell check and editable areas, Adding audio, Drag & drop, User location: geolocation, Saving information - local Storage, Saving information - session Storage.

**[Unit 2] CSS**

**[6 Hrs]**

What Is CSS?, How to write CSS: syntax, Using style sheets, Using external style sheets, Identities and classes, Style entire elements, CSS Comments, Change background colors, Setting background images, Change text color, Text formatting using CSS, Font Properties, Text Properties, Styling hyperlinks using CSS, Styling lists using CSS, Setting element width and height, Adding borders, Spacing: margin & padding, Change the mouse type: cursor, Hide, show and display elements, What to do with overflowing content.

**CSS Advanced:** Grouping & Nesting, Maximum & Minimum Dimensions, Move an element from its default position, Relative location & layering, Floating, Clear, Pseudos, Alignment Sprites: the most efficient way to load images, Make elements translucent: opacity, Different media types, Style elements based on their attributes, Browser prefixes.

**[Unit 3] JavaScript Basics**

**[6 Hrs]**

JavaScript Essentials, What is JavaScript?, JavaScript: Internal vs. External, JavaScript comments, document. Write(); Display info from the browser: alert & confirm, Prompting the user for information, Programming fundamentals: Variables, Add two sentences together: concatenation, Basic math in JavaScript, Redirecting users and opening new windows, Creating empty hyperlinks, String Manipulation, Comparing variables and values, Programming fundamentals: If...Else Statements, Else...If Statements, Switch Statements, Functions; JavaScript Events, Selecting HTML elements using getElementById(), Escaping content, Programming fundamentals: Arrays, For Loops, While Loops, Breaking Out Of Loops, Skipping A Loop Cycle.

**JavaScript's Advanced:** Getting parts of a value: split & substr, Programming fundamentals: Try...Catch And Throw, Getting the users date and time, Some more complex math (no homework), Programming fundamentals: Regular Expressions, Get the users browser (navigator), Add timing: set Interval & set Timeout.

**[Unit 4] Ajax, jQuery, PHP, PHP Advanced.**