

30-Hour Syllabus: HTML, CSS/Design, JavaScript & React

Hour	Topic	Subtopics / Activities
HTML (3 Hours)		
1	HTML Basics	Structure (<!DOCTYPE>, <html>, <head>, <body>), headings, paragraphs, links, images
2	Lists & Tables	Ordered/unordered lists, tables, forms (inputs, labels, buttons)
3	Semantic HTML	<header>, <footer>, <section>, <article>, <nav>, accessibility basics
CSS / Design (7 Hours)		
4	CSS Introduction	Selectors, colors, units, inline vs external CSS
5	Box Model & Typography	Margin, padding, border, text styles, fonts, Google Fonts
6	Positioning & Display	Inline/block, relative, absolute, fixed, z-index
7	Flexbox	Container, alignment, spacing, ordering
8	Grid Layout	Rows, columns, spanning, responsive grids
9	Responsive Design	Media queries, mobile-first, CSS variables
10	Animations & Transitions	Hover effects, keyframes, transitions, transforms
JavaScript (10 Hours)		
11	JS Basics	Variables (let, const), operators, data types
12	Control Flow	if-else, switch, loops (for, while, for...of)
13	Functions	Function declaration, arrow functions, parameters & return
14	DOM Basics	Selecting elements, events (click, input), modifying styles & content
15	Advanced DOM	Creating/removing elements, classList, traversing
16	Arrays & Objects	Array methods (map, filter, reduce), object basics
17	ES6 Features	Destructuring, template literals, spread/rest
18	LocalStorage & JSON	Store/retrieve data, JSON parse/stringify
19	Async JS	Promises, async/await, fetch API
20	Mini Project	Build a To-Do App (HTML+CSS+JS)
React (10 Hours)		
21	React Intro	What is React, JSX, components, props
22	State & Events	useState, event handling, two-way binding
23	Lists & Conditional Rendering	Rendering arrays, keys, conditional UI
24	useEffect	Side effects, fetching API data
25	Forms	Controlled components, handling inputs
26	React Router	Navigation with react-router-dom
27	Component Composition	Reusable components, props drilling
28	State Management Basics	Lifting state up, context API
29	React Project	Build a Task Manager App with CRUD

30	Wrap-up & Deployment	Folder structure, build, deploy on Netlify/Vercel
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