

Front End Development using UI/UX and React.

Objectives This course gives the learner a thorough knowledge of front development such as HTML, CSS, JavaScript, React Js, to build interactive web applications with UI/UX.

S.N	Duration	Title	Content
0	2 Hours	Pre-programming foundation	<ul style="list-style-type: none">• Computer Science Fundamentals• Problem Solving• Programming Logic and Techniques
1	12 Hours	Figma Syllabus	<ul style="list-style-type: none">• Become awesome at using Figma to build modern designs (from beginner to master - no prior experience required)• Learn how to confidently master Figma for work & career advancement• Learn the core Figma skills needed at most tech companies today• Practical and highly relevant course exercises• Learn how to design websites & web apps in Figma• Learn how Figma works, from the very beginning• Discover the most productive way to build designs in Figma• Understand layers & components• Understand how to build design systems in Figma• Understand all Figma tools & their purposes• Understand styles, menus, and file structure• How to collaborate with teams in Figma

			<ul style="list-style-type: none"> • How to facilitate developer handoff • Master newer features like auto layout & variants • Receive quick and friendly support • • •
2	4 Hours	HTML	<ul style="list-style-type: none"> • Introduction to HTML • Learning html elements • Html, body, head, title, meta tags • Text formatting tags like h1, h2, h3, h4, h5, h6, p, strong, ins, del, pre, em, blockquote, ul, ol, dl, abbr, hr, br, sup, sub • HTML list • Image tag • Hyperlinks, external links, internal, email link • HTML table tags • HTML form elements
3	4 Hours	CSS	<ul style="list-style-type: none"> • Introduction to inline, internal and external CSS • Grouping styles • Using selectors in CSS • CSS Properties • Box properties in CSS • Designing tableless websites using html and CSS
4	10 Hours	HTML5 and CSS3	<ul style="list-style-type: none"> • Introduction • Semantic markup with HTML5 • HTML5 structural tags • XHTML vs HTML5 (Changed Element) • Current state of Browser Support Section and Articles • Section Tag

			<ul style="list-style-type: none"> • Article Tag • Accessibility <p>HTML5 Forms</p> <ul style="list-style-type: none"> • Modernizer • New input types <ol style="list-style-type: none"> 1. Search, Tel, Color, Number, URL, Email 2. Date/Time 3. Min, Max and Step attributes <p>New form field attributes</p> <ul style="list-style-type: none"> • required • placeholder • autofocus • autocomplete • pattern <p>New form elements</p> <ul style="list-style-type: none"> • data list, progress and meter <p>HTML5 Canvas</p> <ul style="list-style-type: none"> • Rectangles • Drawing Lines <ul style="list-style-type: none"> • Drawing with Arc • Path Intro • Text <p>HTML5 Audio/Video</p> <ul style="list-style-type: none"> • Introduction • Audio • Video Support • Introduction • Understanding Cascading Style Sheets (CSS) • History, Current State of CSS3 support • Cross browser support testing <p>CSS3 Fonts</p> <ul style="list-style-type: none"> • Fonts on Web • The @font-face rule • Using Google fonts <p>CSS3 effects</p> <ul style="list-style-type: none"> • gradients • box-shadow
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5	6 Hours	Basic JavaScript Programming	<ul style="list-style-type: none"> • Introduction • Variables, Data Types, Conditional statements, Loops • Function: User Defined, Library • Events • Arrays and Object • DOM and DOM Manipulation • BOM • JSON
6	4 Hours	ECMA Script	<ul style="list-style-type: none"> • Let • Const • Map, Reduce, Filter • Arrow function • Template Literals
7	5 Hours	Object Oriented JavaScript	<ul style="list-style-type: none"> • Class and Objects • Abstraction, Encapsulation • Reusability/inheritance • Polymorphism • Association and Aggregation • Composition
8	3 Hours	Async And await	<ul style="list-style-type: none"> • Callbacks • Asynchronous • Promises • Async/Await

9	10 Hours	React Js (Redux, Axios and React Router)	<ul style="list-style-type: none"> • Components • Virtual DOM • Class and Functional Components • JSX • Props • Conditional Rendering • State Management • Lifecycle Methods • Npm • Event handling • Form handling • Hooks • React router • Server-Side Rendering • Redux • Context API • Next Js(framework) • Integrating with other libraries • Connect with API • The Flux Architecture • Provider API • Dispatch Methods <p>Axios and its usage with REST API</p>
10		Project Assignment	<ul style="list-style-type: none"> • Ecommerce Application, • Food Delivery Application, • Entertainment Application. • Timeline Discussion, Weekly Progress Discussion