

Delta : Full Stack Web Development

MERN Stack (Mongo, Express, React, Node)



' Let not the fruit of action be your motive to action. Your concern is with action alone, not with the fruit of action. '

- The Bhagavad Gita

What's new?

Our experience tells us that students on average are **3 times** more serious in a paid batch. The completion of course and watch time of students increases exponentially.

MERN

Full Stack Web Development

Live

12+ Hours of Live Sessions

500+

videos. Classes on
alternate days for next 4.5
months

Batch Overview

- ✓ Complete Frontend Development
- ✓ Complete Backend Development
- ✓ Complete Database (SQL & MongoDB)
- ✓ Complete MERN Stack (MongoDB, Express, React, Node)
- ✓ Real Life and Industry Grade Projects
- ✓ LIVE sessions on how to get a job, resume, freelance, open source & more

**500+**video
lectures**12+**Hours of Live
Sessions**Duration :** 4.5 Months

Course access is for Two Years

Topics

Frontend

| CATEGORY | CHAPTERS | OVERVIEW |
|------------------|---|---|
| Introduction | What is Web? Client-Server Architecture Setting Developer Environment | Understanding how and who built the web General architecture used by websites; requires & response Setting our environment on our laptop/computer where we'll do coding |
| HTML | Structure Tags in HTML Block v/s Inline Tables Forms | How to create the structure of a web page Learning about various tags in HTML like <h1>, <p>, <a>, etc Understand the difference between inline and block HTML elements Learn to create tables in HTML Learn about forms and form fields |
| Intro to CSS | Introduction | What is CSS & how to use it in HTML, different styles of writing |
| Selectors in CSS | Understanding Selectors Selector Specificity | Element, Class & Id selectors etc., combinators, pseudo classes, pseudo elements, specificity in CSS Understanding the specificity & priority of CSS selectors |

| CATEGORY | CHAPTERS | OVERVIEW |
|--------------------|----------------------|---|
| Styling with CSS | Box Model | Understanding the CSS box model |
| | CSS Units | Learning about various CSS units used to style HTML elements, absolute & relative |
| More CSS | CSS Transition | Understanding element transitions in CSS along with shorthand |
| | CSS Transforms | Understanding element transformations in CSS along with shorthand |
| Flexbox | Intro to Flex | Understanding flexbox layout, cross axis, main axis etc. |
| | Flex properties | flexbox direction, justify content, align items, align self, flexwrap, flex sizing,etc. |
| Responsive Designs | Media Queries | Learn about Media Queries & Viewport |
| Bootstrap | Frontend frameworks | What are frontend frameworks and how to use one |
| | Components | Using various bootstrap elements like Navbar, buttons, cards etc |
| Tailwind CSS | Layouts(Grid system) | Learning about grid system of bootstrap |
| | What is Tailwind? | Understanding Tailwind as a Framework |

| CATEGORY | CHAPTERS | OVERVIEW |
|----------------------------|--|--|
| Tailwind CSS | Components Creating Responsive Designs | Covering button, navbar, fonts, margin, padding etc. Understanding responsiveness in tailwind, @apply, @layer etc. |
| Major Project | CSS Major Project | Focus on using concepts we have learn to build our project |
| Starting with Javascript | Intro to JS Variables, operators, conditional, loops | What is JS and use of JS Learning the basics of the language |
| Functions and Arrays in JS | Scope Functions expressions v/s Function declaration Arrays and its usage | Understanding scope in JS Difference between function expression and declaration What are arrays and using array functions like splice, slice etc. |
| Objects and Timing Events | Intro to Objects Object functions | What are objects, how to create them and using different notations to access object's data Learn to iterate over objects, delete object properties, creating nested objects |
| Understanding DOM | DOM | Understanding DOM, what it is, how to access elements from the DOM |

| CATEGORY | CHAPTERS | OVERVIEW |
|-----------------------------|--------------------|---|
| Understanding DOM | Events | How to manipulate DOM events in JS |
| Closures | IIFE | What are immediately invoked function expressions |
| | Closures | What are closures and its application |
| | Arrow functions | Learning about arrow functions and bindings in arrow functions |
| Constructors and Prototypes | “this” keyword | How does the “this” keyword works in JS |
| | Prototypes | Discussing what are prototypes in JS, why do we use them and its application |
| | Class | Learning about using classes in JS and how to deal with class inheritance in JS |
| Ashynchronous JavaScript | Promises, Callback | What are promises and callbacks in Javascript, Why to use |
| | Timed Events | What is setTimeout, Event loops in javascript |
| | Async Await | What are Async Await in Javascript, Why that is important |
| Ajax | Intro to AJAX | What are async requests, what is API and JSON |

| CATEGORY | CHAPTERS | OVERVIEW |
|---------------|--------------------|---|
| Promises | Handling promises | What is a promise, how do we use promises and chaining promises |
| Git | Intro to Git | What is git and why it's helpful |
| | Branches | Exploring branches in Git. How to create branches. |
| | Git workflow | Understanding push, commits, pull requests and using git for teams and individual |
| Terminal | Mastering Terminal | Directories, Commands, paths, operations on files etc. |
| Major Project | JS Major Project | Create something classic by using the concept learn in JS |

| CATEGORY | CHAPTERS | OVERVIEW |
|--------------------------|------------------------|---|
| Node.js | Intro to Node | Introduction to the course, hello world with nodejs |
| | Setting up | Setting up tools and the project |
| Writing Our First Server | Intro to servers | What are servers and how one can use them |
| | Setting up node server | Beginning the project by setting up the very first node server |
| | nodemon | Introducing nodemon to monitor changes made to the server |
| Creating Express Apps | MVC | MVC architecture for our server |
| | Express | What are frameworks, using express with node |
| | Ejs | What are template engines, setting up and working with Ejs |
| | Middleware | What is a middleware and how to use one |
| Intro to Databases | Database | What are databases & why do we need them |
| | SQL | what is SQL, SQL queries etc. |
| MongoDb | MongoDB | What is MongoDB, how to use it and setting up MongoDB for the project |
| | DB operations | CRUD operations for MongoDB |

Backend

| CATEGORY | CHAPTERS | OVERVIEW |
|--------------|-----------------------------|---|
| MongoDb | Mongoose | Linking MongoDB using Mongoose |
| Mega Project | Working on our Mega Project | APIs, error handling, validation, express router, authentication, deployment & many more concepts to be covered |

React

| CATEGORY | CHAPTERS | OVERVIEW |
|---------------|-----------------------------------|---|
| React | Components, Styling, Redux & more | What is React, installation, react components, styling in react, component lifecycle methods, react hooks, introduction to redux & redux toolkit etc. |
| Major Project | React Project | Using the concepts we have learnt to build our project |

Lectures will be uploaded on **Alternate** Days

Till then, keep learning & keep exploring ❤️

Start Date : 10th June, 2025