



MERN COURSE



291/A KIADB, HEBBAL INDUSTRIAL AREA,
MYSURU, KARNATAKA 570016



+91 9620008934



reach@letspro.in



www.letspro.in



ABOUT LET'SPRO ACADEMY

LetsPro provides hands-on training on trending technologies and IT certification programs. We help you achieve your educational and career goals. Join hands with us, and you can rest assured that everything you learn will be significant, complete, and meet today's job requirements.

LetsPro Academy has emerged to be a strong force in nation-building by also partnering with the government of India, NSDC, NASSCOM, SKILL INDIA, and many such esteemed bodies working at the grass-root level to make India the skill capital of the world.

COURSE OVERVIEW:

Full stack web development is an evergreen field since any kind of business, irrespective of its size, industry or domain requires a website. As technology adoption is taking place at a remarkable pace, demand for websites and subsequently for web developers are only going to rise with time.

Full stack web development covers both front end and back end along with every bells and whistles required for a professional website. MERN is one of the most prominent webstack used for full stack web development and it is getting popular each day among the web developers.

Our certificate course on MERN stack aims to equip students with all necessary skills and knowledge required to excel in full stack development and imparts practical knowledge to students to build a complete flawless website from scratch.

Course outcomes:

Upon successful completion of this course students will be able to,

- Understand client requirements and convert into deliverables
- Build a complete end to end website from scratch
- Breakdown the requirements and develop a website accordingly
- Implementation of the website on live servers
- Support and assistance to implemented websites.

Training roadmap:

- Pre-Assessment
- Training
- Post Assessment
- Placement

Learning modules:

- MongoDB
- Express Js
- React Js
- Node Js

Average pay:

Average MERN developer salary in India is close to 5-5.5 LPA

Opportunities:

- Full stack developer
 - MERN developer
 - MERN stack engineer
 - Front End/Back end developer
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Syllabus breakup

Node.Js

- **HTTP Protocol**
- **Node.js Architecture**
- **Different libraries used by Node**
- **How is node different from a browser ?**
- **What is called stack and event-loop ?**
- **create a basic http server in node**
- **working with core node modules and globals**
- **working with FileSystem in Node.js**
- **Package managers & external modules**

MongoDB

- **SQL Vs NoSQL**
- **MongoDB database structure**
- **Working with Mongo Shell**
- **CRUD operations in mongoDB**
- **Ad-hoc query**
- **Indexing**
- **Aggregations**
- **Import/Export data from JSON/CSV formats**

Express

- **Basic server in Express**
- **Middlewares in Express**
- **Handling Routes**
- **Mongoose ORM**
- **Designing Database Models**
- **Error Handling & Writing Tests**
- **CRUD in Express with Mongoose**
- **What is API & API Conventions**
- **JWT based Authentication**
- **API Versioning, Authentication & Authorization**

React

- **Class and function based components**
- **State and props**
- **Lifecycle hooks**
- **Fetching data from APIs**
- **Controlled & Uncontrolled Components**
- **Routing in React**
- **Context API & React hooks**

BOOTSTRAP

- **Introduction to Bootstrap framework**
- **Bootstrap CSS**
- **Bootstrap Layout Components**

HTML/CSS:

- **Web Fonts**
- **Gradients without Images Exploring Generated Content**
- **Animating Elements with Keyframes Elements Positioning**
- **Working with Layouts Multi-Column Layouts with CSS3**
- **Introduction to CSS3, Basic Selectors Advanced Selectors,**
- **Lists, and Navigation Menus Working with Sizes, Colors and Files**
- **Styling Text Transforms**
- **Transitions Dealing with Cross Browser Layouts Styling Tables Media Queries etc**