

MERN Stack

Are you in the final year or a fresher, who is looking to learn s/w projects development to land a Job in IT or S/W Company?

Learn s/w development and become job ready in 3 months with our **MERN stack development** program.

In this course you will be developing 3 different projects with increasing level of complexity which will help you in

digesting some major core concepts needed to develop a fully working s/w application.

Objective: Using front-end and back-end technologies along with frameworks for developing web based project.

Eligibility

Bachelor's or Master's degree in Engineering, Technology (BE /BTech/ BS/ ME/ MTech in IT or Computer Science BSc IT/CS), BCA, MSc in Computer Science, MCA) or any graduate with basic knowledge of C/C++/Java/Python, HTML and JS or any other programming language.

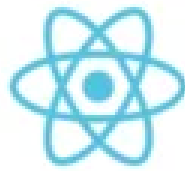
Tech Stack To Be Covered



MongoDB



Express JS



React JS



Next JS



Git



Deployment



Bootstrap



CSS



HTML

Module Wise Syllabus and Schedule

Highlights

Learn to create database structure of a project in No-SQL DBMS like MongoDB. This will give you an experience to work on more complicated database structure.

Learn to work on back-end programming languages Node.js with Express Node.js framework. Learn to manage your code with Unit testing and code-reusability.

Working with static files and images and manage them through database and programming languages.

Learn to design front-end/ web-UI using HTML5, CSS and JavaScript and more professional looking webpages using HTML and CSS framework like bootstrap and data-table.

Learn to create single page application using most widely used JavaScript technology React Next.js framework

Learn to work with Next.js to interact with back-end giving hands-on exposure and step towards working with API's.

Source code management using GIT and GIT-Hub

Project you learn to develop

Website Design (html 5, JS, CSS).

Single Page application using React Next.js framework.

A CRUD application with session handling.

Curriculum

Front-end: React Next.js framework.

Back-end: Node.js with Express

What in React Next.js?

- Next.js introduction
- Next.js Setup
- Next.js project structure
- Next.js Pages
- Next.js Static file
- Next.js CSS and global CSS support
- Next.js Pre-Rendering
- Next.js Routing
- Next.js Dynamic Routing
- Next.js API Routing
- Next.js API Middleware
- Next.js Typescript
- Next.js Environment Variables
- Next.js Project Deployment

What in Node.js?

- Introduction to Node JS
- Advantages of Node JS
- Node.js Process Model
- Setup Development Environment
- Install Node.js
- Node JS Modules
- Node Package Manager
- Creating Web Server
- File System
- Debugging Node JS Application
- Events
- Express JS

- Serving Static Resources
- Database Connectivity
- Project Development using Node JS

Database: Mongo DB