.[REGEX]*
Software Services- Learn To Create

MERN Stack Specialization Program

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About The Program:

we provide a comprehensive MERN Stack course covering MongoDB, Express.js, React.js, Node.js and TypeScript, NextJS, SQL to help you become a skilled full-stack developer. Our industry-focused training includes hands-on projects, expert mentorship, and 100% placement assistance, making us the top choice for aspiring developers. Whether you're a fresher, working professional, or career switcher, our MERN Stack training company in Jaipur equips you with the latest technologies to secure high-paying jobs in top IT companies. Enroll today and kickstart your journey as a MERN Stack developer!

Mode:	**Duration:**	**Participants:**
Physical (Jaipur) or Online (Google Meet)	8 Months + 6 Months Additional Support	18 - 20 per Batch

What you will Learn ?

C++ | DSA | HTML | CSS | Tailwind CSS

JavaScript | TypeScript | React JS | Redux | NextJS

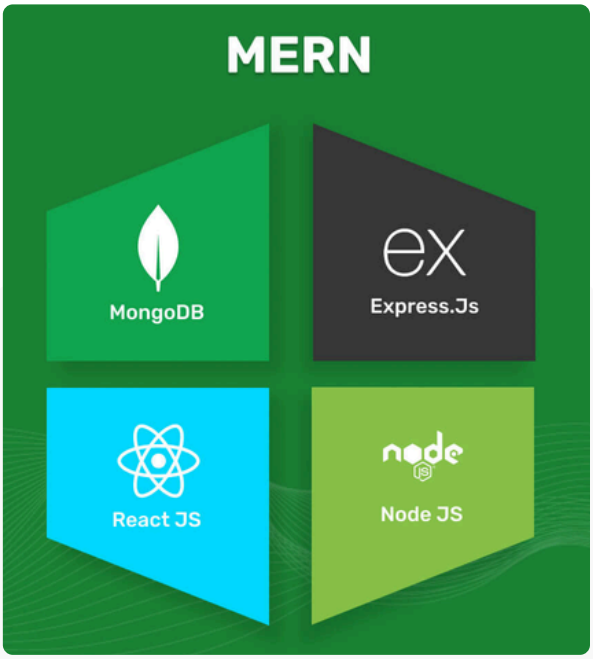
NodeJS | ExpressJS | MongoDB | GenAI | AWS

Study Material-

- E-Notes.
- Poll Test & Assignments .
- Over 450 hours of Live Video Lectures available on demand.
- Accessing lecture videos and notes.
- 24*7 Mentorship Support
- Engaging in real-time project assignments

Course Outcome-

- A complete transformation from noob to Mern-Stack developer
- Build. Deploy. Impress. Repeat.
- Ability to impress recruiters with live job ready projects
- Craft a portfolio that demands attention
- Stand out in the developer crowd and crack up to 40 LPA roles



Package Offered So Far

IT Candidates	Non-IT Candidates
Minimum Package: 4 LPA	Minimum Package: 3 LPA
Average Package: 4 – 6 LPA	Average Package: 3.5 – 5 LPA
Overall Highest Package: 39 LPA	Overall Highest Package: 14.5 LPA

PLACEMENT PROCESS:

At **REGex Software**, we are committed to providing a structured and results-driven training approach to ensure your career success.

- 🔹 **Training & Performance Analysis:**
  - Your training will begin from day 1 of your joining, focusing on hands-on learning and practical implementation.
  - Our team will analyze your performance based on assignments, projects and weekly assessments from the **second week onwards** and we will provide **weekly feedback** to help you improve.
- 🔹 **Mandatory Criteria for Placement Opportunities:**

To be eligible for placement opportunities, you must meet the following criteria:

- ✅ **80% attendance** in live training sessions.
- ✅ **80% completion and timely submission** of assignments & projects.
- ✅ **80% attendance** in assessments, including **tests, mock interviews, HR interviews and group discussions**.

- 🔹 **Resume Preparation & Placement Process:**
  - Between **5.5 to 6 months**, our team will provide guidance on **resume building** and evaluate your resumes accordingly.
  - After completing **75-80% of the program**, you will receive details about the placement opportunities based on your **performance and company requirements**.
  - Placement opportunities will be provided **continuously** via **email, calls and WhatsApp groups**, depending on your performance.

- 🔹 **Placement Assurance & Refund Policy (Applicable only for Indian Students Only):**
  - This is a **Placement Assured Program**, with an additional **6-month post-program assistance**.
  - IT Graduates who passed out in 2025 or later (Regular B.tech, BCA, M.tech, MCA programs) are assured a minimum salary package of 4LPA upon placement. However, for IT Graduates who passed out in 2024 or earlier, having gaps in their academics, as well as for Non-IT Graduates (graduates other than regular B.tech, BCA, M.tech, MCA programs), the minimum guaranteed package will be 3LPA.
  - In the event that you have attended & completed at least 80% of the program, submitted and finished at least 80% of the assignments, Tests, Mock Interviews & HR Interview and still do not secure a placement then REGEX will refund your fees with a 9% Annual interest rate. Furthermore, Refunds are applicable only within the first 3 days of the demo period and solely in cases where a specific concern is raised regarding the quality of the learning experience provided. You will receive an official notification email from our team on the third day at 7:30 PM, confirming the completion of your demo period. Requests for a refund of the registration amount must be submitted prior to the issuance of this email. No refund requests will be entertained after this time and Even if you discontinue the program prematurely, you are still obligated to pay the full fee to REGex.
- 🔹 **Our Commitment to Your Success:**

At **REGex Software**, **Placement Assurance = Skills + Opportunities**

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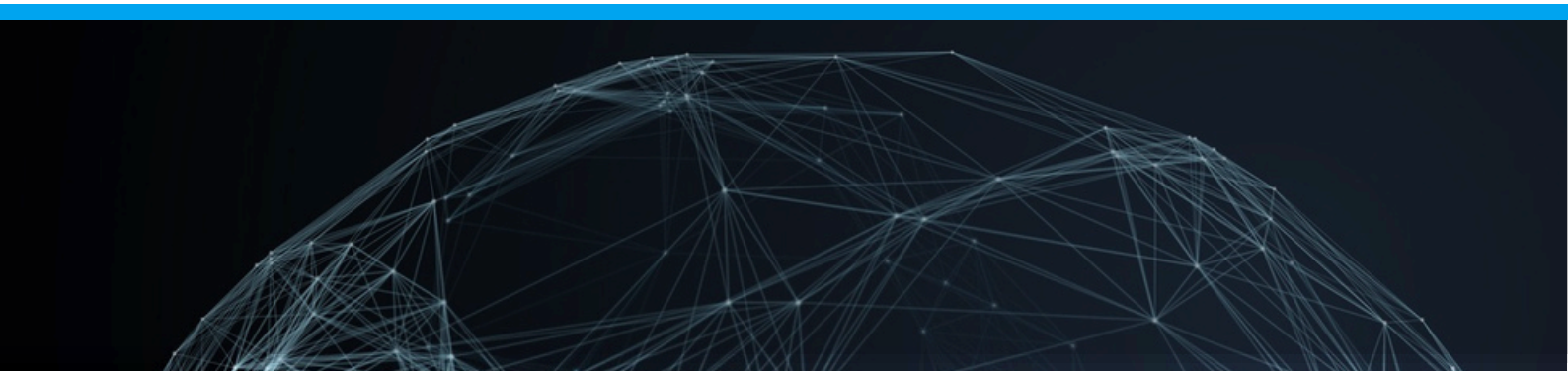
We equip you with **industry-relevant skills** and provide continuous **job opportunities** based on your performance. However, it is the **student's responsibility to crack interviews** and enhance their skills based on feedback.

For additional support, we offer the flexibility to **rejoin previous batches** to reinforce concepts and improve understanding.

We are dedicated to your career success! 🚀



COURSE CONTENT:

Month 1

Week 1 - 4

C Logical Programming

- Data Types
- Variables
- Variable Scope – Local, Global
- Constants
- Operators
- Decision Making Statements
  - if Statement
  - if...else
  - switch
- Loops
  - while Loop
  - do...while Loop
  - for Loop
- Basic I/O Functions
  - scanf() and printf() usage

Month 2

Week 5

Linux

- Introduction to Linux
- Basic Commands of Linux OS
- Vi Editor
- Tar Archive
- User Management and Permission

GitHub

- Git vs GitHub
- Git Commands
- Git Branches
- Branching and Merging
- Git Push vs Pull Commands

Week 6

C++

- Basic I/O Functions
- Recursion

Frontend

- CSS Core Topics
- Responsive Design
- CSS Transitions and Animations
- Pseudo-classes and Pseudo-elements
- CSS Grid
- Tailwind CSS Introduction
- What is Tailwind CSS
- Overview of Utility-First CSS Framework
- Installation Methods
- Installing via CDN
- Installing using npm/yarn
- Setting up with Frameworks (React, Vue, Angular)
- Responsive Design
- Mobile-First Approach
- Responsive Utilities: sm:, md:, lg:, etc.

COURSE CONTENT:

Week 7

Arrays

- Single Dimensional Arrays
- Two Dimensional Arrays

Frontend

Tailwind CSS Continued

- Pseudo-Class Variants: hover:, focus:, active:
- Group Utilities: group-hover:, focus-within:

Spacing Utilities

- Margin and Padding: m-4, p-2, etc.
- Negative Margins

Shadow and Effects

- Box Shadows: shadow-sm, shadow-lg
- Opacity and Blur

JavaScript Introduction

- Introduction to JavaScript
- Variables and Data Types
- Let, Const, and Block Scope
- Operators
- Control Structures: if, switch
- Loops: for, while

Week 8

C++

- Functions
  - Arguments, Signature, Prototype Declaration
  - Call by Value, Call by Reference
  - Return by Value
  - Passing Arrays to Functions
  - Returning Arrays from Functions

Frontend

- Functions and Scope
- Lexical Scope
- Closures
- Currying
- Arrays and Objects
- Events and Event Handling
- Destructuring
- Spread and Rest Operators

COURSE CONTENT:

Month 3

Week 9

C++

- C-style Character Strings
- String Handling Functions
- String Literals Containers:
  - vector, list, map, queue, stack, deque
- Iterators
- Typical STL Algorithms:
  - find, for_each, sort, search, copy, remove, etc.

Frontend (JavaScript Advanced)

- Callbacks
- Array Methods
- Object Methods
- Promises
- async/await
- JSON and Fetch API
- Error Handling

Week 10

C++

- Dynamic Memory Allocation
- const Pointers, const Data, const Pointer to const Data
- Operating Arrays using Pointers
- The string Class in C++

Frontend

- Local Storage and Session Storage
- Lambda (Arrow) Functions

Week 11

C++

- Pointers
- Difference Between Pointers and Arrays
- Array of Pointers
- Passing Pointers to Functions
- Returning Pointers from Functions

MERN

- Introduction to Full Stack
- What is a Database?
- Difference Between Data Structure and Database
- SQL vs NoSQL Databases
- Why MongoDB is Chosen
- Installing MongoDB Tools:
  - Atlas
  - Compass
  - Shell

COURSE CONTENT:

Week 12

C++

- Pointer Arithmetic
- 2D Pointers
- Array of Pointers (Reinforcement)
- Dynamic Memory Allocation (Advanced)

MERN

- How to upload json file in mongodb
- DDL commands to put data in mongodb
- DML commands basic introduction
- What is filter query and how it is implemented
- what is collection
- what is document

Month 4

Week 13

C++ – Data Structures Basics

- Introduction to Data Structures
- Linked Lists
  - Singly Linked List (creation, traversal, insertion, deletion)
  - Doubly Linked List (Introduction only)
- Stack (List-based Implementation)
- Queue (List-based Implementation)

MERN – Filtering & Component Integration

- Perform different data filtering operations (MongoDB queries)
- Create components using React.js
- Dynamically display content using links from Express.js backend

Week 14

CPP – Searching and Sorting

- Linear Search
- Binary Search
- Bubble Sort
- Quick Sort

MERN – Backend to Frontend Data Flow

- Use Node.js & Express links to display backend data on the webpage
- Create dynamic component states
- Pass props and understand children components structure

COURSE CONTENT:

Week 15

C++ – OOP Concepts

- Constructors and Destructors
  - Default Constructor
  - Parameterized Constructor
  - Copy Constructor
    - Shallow Copy
    - Deep Copy
- this Pointer

MERN – Hooks & API Fetching

- Introduction to React Hooks:
  - useState, useEffect
- Learn to fetch APIs (e.g., using fetch or Axios)
- Make complete page content
- Deepen understanding of parent-child relationships

Week 16

C++ – Problem Solving Practice

- Hands-on coding practice on LeetCode
  - Focus on DSA concepts covered
  - Practice beginner to intermediate level problems

MERN – Global State Management

- Introduction to React Context API
- Using useContext and setting up Provider components for global state access

Month 5

Week 17

C++ – Problem Solving

- Focused practice on LeetCode and HackerRank
- Apply concepts like:
  - Arrays
  - Strings
  - Functions
  - Loops
  - Pointers

MERN

- Full Project Integration
- Applied concepts of:
  - Higher Order Components (HOC)
  - State Uplifting
- Component structuring and data flow setup

COURSE CONTENT:

Week 18

C++ – Continued Problem Solving

- Continued solving problems on LeetCode and HackerRank
- Emphasis on:
  - STL usage (vectors, maps, sets)
  - Sorting & searching techniques
  - Recursion & dynamic memory
  - Time & space complexity analysis

MERN

- Created core pages:
  - Login, Register, and Main
- Axios Integration for API calls
- Page navigation using React Router
- React Redux for global state management

Week 19

MERN

- Introduction to Schema Design
- Creating and structuring MongoDB models
- Implementing multiple models (User, Product, etc.)

Week 20

MERN

- POST Requests using Postman to add data
- GET Requests to fetch data via API endpoints
- Backend and frontend connectivity via Express & Axios

Month 6

Week 21

MERN

- Created a proper folder structure for organizing the project
- Updated data using PUT requests
- Deleted data using DELETE requests

COURSE CONTENT:

Week 22

MERN

- Introduction to Node.js
  - What is backend
  - What is a runtime environment
  - Difference between Node.js and Vanilla JS
  - Concept of Asynchronous JavaScript

Week 23

MERN

- Introduction to React.js
- Writing basic MongoDB Queries using find()
- Learning MongoDB operators (e.g., $eq, $gt, $in, etc.)

Week 24

MERN

- Introduction to Aggregation Pipeline in MongoDB
- Using $group and $match operators for data processing

Month 7

Week 25

MERN

- Introduction to Authentication and Authorization
- Understanding JWT (JSON Web Token)
- Basics of Session, Local Storage, and Cookies

COURSE CONTENT:

Week 26

MERN

- Introduction to Express.js
- Creating a basic server
- Understanding:
  - Port Numbers
  - HTTP Requests
  - What is a Server
  - What is a Route
  - What is a Middleware

Week 27

MERN

- Adding Multiple Routes
- Modular Routing with express.Router()
- Implementing Nested Routes
- Mounting Routes in Express
- Creating and using Controllers and Middlewares

Week 28

MERN

- In project:
  - Integration of Nodemailer (for sending emails)
  - Cron Jobs and Job Scheduling
  - Payment Integration using third-party services

Month 8

Week 29

MERN

- Creating API
- Testing API using Postman
- Understanding different HTTP methods (GET, POST, PUT, DELETE)

COURSE CONTENT:

Week 30

MERN

- Completing the ongoing project
- Doubt discussion and final Q&A session

Misc (Miscellaneous)

TypeScript

- Introduction to TypeScript
- Type System Basics
- Functions in TypeScript
- Objects and Interfaces
- Type Annotations
- Type Inference
- Arrays and Tuples
- Enums
- Generics
- Modules
- Decorators
- Mixins

Next JS

- Introduction to Next.js
- CSR vs SSR
- Pages & Routing
- Dynamic Routing
- Rendering Methods
- Components & Styling
- Server vs Client Side Components (use client)
- API Routes
- Data Fetching & State Management
- Redux in Next.js
- Forms, Authentication, and Middleware
- App Router

COURSE CONTENT:

GenAI in MERN

- Token-based Authentication for AI Features
- Chatbot Integration with GenAI
- A2A (Agent-to-Agent) Communication
- MCP (Multi-Channel Processing)
- Resume Analysis Using GenAI
- Dynamic Quiz & Calculator with GenAI

Deployment

- Introduction to AWS
- Application Deployment (Frontend & Backend)

Capstone Projects

1. Movie Website App (MERN Stack)
2. Personal Finance Manager with Predictive Analytics
3. Traveling Website (MERN Stack)
4. Skill-based Volunteer Matching Platform
   - Client-Admin API
   - Multi-vendor Application
   - Role-based API
   - Admin & Super-Admin API Controls
   - Conditional APIs
   - Multi-server API
   - GenAI-based API (if time permits)

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