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**VIJAY KUMAR CHIRUTHA
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Modules

MERN & MEAN stacks

MODULE 1: PROGRAMMING FUNDAMENTALS

- Introduction to Software Development Life Cycle (SDLC)
- Basics of Programming Concepts
- Variables, Data Types
- Operators
- Control Statements (if, switch, loops)
- Functions
- Introduction to Version Control
- Git & GitHub (basic commands)

MODULE 3: FRONTEND – HTML5 & CSS3

HTML5

- HTML Structure & Elements
- Forms & Input Types
- Semantic HTML
- Media Elements (Audio, Video)

CSS3

- CSS Selectors & Properties
- Box Model
- Flexbox
- Grid Layout
- Responsive Web Design
- Media Queries
- Basic Animations & Transitions

MODULE 2: WEB FUNDAMENTALS

- How the Web Works (Client–Server Architecture)
- HTTP/HTTPS, URLs, DNS
- Web Browsers & Rendering
- Introduction to RESTful APIs
- Basic Networking Concepts

MODULE 4: FRONTEND – JAVASCRIPT (CORE + ES6)

- JavaScript Basics
- Variables, Scope
- Data Types
- Operators
- Functions & Arrow Functions
- Arrays & Objects
- DOM Manipulation
- Events & Event Handling
- ES6 Features
- let/const
- Destructuring
- Spread/Rest Operators
- Modules
- Error Handling
- Introduction to Async Programming

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MODULE 5: FRONTEND FRAMEWORK

- Option A: React (MERN Stack)
- Introduction to React
- JSX & Components
- Props & State
- Event Handling in React
- Hooks (useState, useEffect)
- Conditional Rendering
- Forms & Validation
- React Router
- API Integration using Axios / Fetch
- Basic Performance Optimization
- Option B: Angular (MEAN Stack)
- Angular Architecture
- TypeScript Basics
- Components, Modules
- Data Binding
- Directives & Pipes
- Services & Dependency Injection
- Routing & Navigation
- Forms (Template & Reactive)
- HTTP Client & API Integration

MODULE 6: BACKEND – NODE.JS

- Introduction to Node.js
- Node.js Architecture
- NPM & Package Management
- File System Module
- Event Loop
- Creating Basic Servers
- Environment Variables

MODULE 7: BACKEND – EXPRESS.JS

- Introduction to Express.js
- Routing
- Middleware
- Request & Response Handling
- REST API Development
- CRUD Operations
- Error Handling
- Authentication Basics

MODULE 8: DATABASE – MONGODB

- Introduction to NoSQL Databases
- MongoDB Architecture
- CRUD Operations
- MongoDB Queries
- Indexing
- Data Modeling
- Mongoose ODM
- Relationships in MongoDB

MODULE 10: FULL STACK INTEGRATION

- Connecting Frontend with Backend
- API Consumption
- Handling CORS
- Environment Configuration
- Error Handling (Frontend & Backend)

MODULE 9: AUTHENTICATION & AUTHORIZATION

- User Registration & Login
- Password Hashing
- JWT (JSON Web Token)
- Role-Based Access Control
- Secure API Development

MODULE 11: TESTING & DEBUGGING

- Debugging JavaScript Applications
- Unit Testing Basics
- API Testing (Postman)
- Basic Frontend Testing Concepts

MODULE 12: DEPLOYMENT & DEVOPS BASICS

- Build Process (Frontend)
- Deployment Options
- Netlify / Vercel (Frontend)
- Render / Railway / AWS (Backend)
- Environment Variables in Production
- CI/CD Basics
- Application Monitoring

MODULE 14: CAREER PREPARATION

- Resume Preparation
- GitHub Portfolio
- Interview Questions
- JavaScript
- React / Angular
- Node.js
- MongoDB
- System Design Basics
- Mock Interviews

MODULE 13: PROJECT WORK

Mini Projects &

Final Capstone Project

- Full Stack Web Application
- Authentication
- Role Management
- Database Integration
- Responsive UI
- Deployment



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- DATA ANALYTICS WITH AI
- DATA ANALYST AND BUSINESS ANALYST WITH AI
- MANUAL TESTING AND SELENIUM WITH AI
- PYTHON FULL STACK WITH AI
- JAVA FULL STACK WITH AI
- DIGITAL MARKETING WITH AI
- TABLEAU + SQL WITH AI
- ORACLE, SQL, MYSQL
- EXCEL AND ADVANCED EXCEL WITH AI
- SAP [ALL MODULES]
- SALESFORCE
- GEN AI
- CYBER SECURITY WITH AI
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- AWS/AZURE DEVOPS
- MS OFFICE
- POWER APPS

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About US

- We are Providing the Software Courses for both Online and Offline
- We have well Experienced and Real Time Trainers
- We give the best content to cover all your course syllabus and its practical knowledge
- We give 2 to 3 Assignments to our students which helps the more interactivity with course and its practical real time scenario knowledge
- We explains the 2 to 3 projects and letting the students to know to how to do real time projects once they get selected



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THANK YOU SO MUCH

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