echno Scripts

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100% JOB ORIENTED ADVANCE EMBEDDED COURSES



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ABOUT US

TechnoScripts is an ISO 9001:2015 certified best training institute for advance courses in Embedded System. We are pioneer of Embedded System training in Pune development. Though we provide many different courses and training in embedded all aim at giving good practical knowledge to students as well help them in career

OUR FEATURES



MATERIAL



INTERVIEW PREPERATION



9001:2015





LIVE PROJECTS



100% **PLACEMENT SUPPORT**



STATE OF THE ART **LABS**



COURSE COMPLETION CERTIFICATE



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OUR COURSES

Advance Career Track

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PG Diploma in Embedded

MATLAB Simulink

MBD Training

IOT Training

Autosar Training

LIVE PROJECTS | INTERVIEW PREPERATION | MOCK INTERVIEWS

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COURSE SYLLABUS : FULL STACK TRAINING

Module 1: Introduction to MEAN & MERN Stack

Get introduced to the full-stack landscape, exploring the architecture of MEAN (MongoDB, Express.js, Angular, Node.js) and MERN (MongoDB, Express.js, React, Node.js), along with the required tool setup for development.

Module 2: HTML and CSS Basics

Learn to build responsive web pages using semantic HTML and modern CSS layouts like Flexbox and Grid.

Module 3: JavaScript Fundamentals

Understand JavaScript basics including variables, data types, functions, and control structures to build dynamic behavior in web pages.

Module 4: Advanced JavaScript

Dive into DOM manipulation, event handling, and asynchronous JavaScript using promises, async/await, and Fetch API.

Module 5: Node.js

Explore server-side JavaScript by building a basic HTTP server and performing file operations using Node.js and npm.

Module 6: Express.js Basics

Develop lightweight server applications using Express.js by setting up routes, middleware, and static file serving.

Module 7: MongoDB Basics

Gain hands-on experience with MongoDB by performing CRUD operations on NoSQL collections and documents.

Module 8: Integrating MongoDB with Node.js

Use Mongoose to connect Node.js to MongoDB, define schemas, and implement database-driven server-side logic.

Module 9: REST API Development

Build RESTful APIs using Express.js, applying HTTP methods and creating endpoints for CRUD operations.

Module 10: Authentication and Authorization

Implement secure user login/signup features using JWT, bcrypt for password hashing, and middleware for route protection.

Module 11: React Basics (MERN Stack)

Learn to build dynamic front-end applications using React's component-based architecture and the useState hook.

Module 12: React Advanced Concepts

Master routing with React Router, global state management with Redux, and styling techniques using Tailwind CSS.

Module 13: Angular Basics (MEAN Stack)

Get started with Angular by learning its core structure, components, directives, and two-way data binding.

Module 14: Angular Advanced Concepts

Explore advanced Angular features including routing, dependency injection, reactive forms, and RxJS observables.

Module 15: Front-End and Back-End Integration

Connect your front-end (React/Angular) with Express APIs using Fetch or Axios while handling responses and CORS issues.

Module 16: State Management in React

Implement complex state logic using Redux and Context API to manage data across large React applications.

Module 17: State Management in Angular

Utilize services and NgRx to manage state reactively and optimize Angular app performance with observables.

Module 18: Testing in MEAN/MERN

Learn unit, integration, and end-to-end testing using tools like Jest, Supertest, and Cypress for full-stack apps.

Module 19: Web Security

Secure your applications by addressing XSS, CSRF, input validation, and using tools like Helmet and environment variables.

Module 20: Performance Optimization

Enhance both front-end and back-end performance using lazy loading, caching, indexing, and analysis tools like Lighthouse.

Module 21: Version Control with Git

Master collaborative development by using Git and GitHub to manage code versions, branches, and pull requests.

Module 22: Build Tools and Bundlers

Understand and configure build tools like Webpack, Vite, and Babel to bundle and optimize modern JavaScript code.

Module 23: Deployment to Cloud

Deploy full-stack applications on platforms like AWS, Heroku, and Vercel with domain and SSL configurations.

Module 24: Containerization with Docker

Containerize your applications using Docker and deploy multi-container setups using Docker Compose and cloud services.

Module 25: CI/CD Pipelines

Automate your workflow using GitHub Actions or CircleCl to build, test, and deploy code efficiently.

Module 26: Real-Time Applications

Build real-time features like chat systems using WebSockets and Socket.10 integrated with Node.js servers.

Module 27: Industry Applications

Work on real-world application features for domains like e-commerce, social platforms, and CMS with practical case studies. orld project that includes development, testing, deployment, and final presentation to evaluators.

PLACEMENTS

We provide 100% placement support to every student enrolled for Job oriented courses. We invite top companies for campus interview at our centre as well arrange the interviews for students at company premises.

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