

NODE.JS

MASTERY PROGRAM

A structured, hands-on Node.js program that takes learners from core runtime concepts through building APIs, working with databases, and deploying production-ready backend applications.

Program Curriculum

01 Node.js Foundations

- Intro, Architecture & V8 Engine
- Node.js vs Browser
- The Event Loop

02 Asynchronous Programming

- Async Basics & Promises
- Async/Await
- Error Handling

03 Modules & NPM

- CommonJS & ES Modules
- NPM & package.json
- Managing Dependencies

04 Core Modules

- HTTP/HTTPS & File System
- Path, OS & URL Modules
- Events, Streams & Buffer

05 Building Web Applications

- Express.js & Middleware
- REST API Design
- API Authentication

06 Database Integration

- MySQL: Create, Insert & Query
- MongoDB: Collections & CRUD
- Sorting, Limiting & Joins

07 Real-Time Communication & Testing

- WebSockets & Socket.IO
- GraphQL
- Testing Frameworks

08 Deployment & Scaling

- Environment Config & CI/CD
- Security Best Practices
- Clustering & Microservices

Who Should Enroll

- ✓ Front-end developers moving into full-stack roles
- ✓ Students & freshers building backend fundamentals
- ✓ Developers building REST APIs & real-time apps
- ✓ Candidates preparing for Node.js technical interviews

Program Highlights

- ✓ Hands-on Training
- ✓ Expert Mentors
- ✓ Real-World Projects
- ✓ Certification Included
- ✓ Flexible EMI Available