



## Overview

Let eMexo Technologies **Best Node.js Training in Electronic City Bangalore** take you from the fundamentals of Node.js to Advance Node.js and make you an expert in developing real-time Node.js applications. Here are the major topics we cover under this Node.js course Syllabus **Introduction to Node.js, File System Module and Express.js, Asynchronous Programming, Integration with MongoDB and Email Server, REST APIs and GraphQL, Building Node.js Applications using ES6, User Authentication and Application Security, Dynamic Client-Server Interaction using Socket.IO, Testing Node.js Applications, and Microservices Application**. Each topic will be covered in a practical way with examples for our Node Js Course in Electronic City Bangalore.

All the topics will be covered with Practical and hands-on training. Our trainers have industry experience with live project experience in cutting-edge technologies which they teach. We hire only the Best Node.js industry specialists as trainers for our **Node.js Certification Training in Electronic City Bangalore**.

If you are looking for a Node Js Certification Course in Electronic City Bangalore, eMexo Technologies is the **Best Node.js Training Institute in Electronic City Bangalore**. Come over to our training institute for a free demo class. Let our trainer give you a demo on Node.js and only then you take the decision to enroll in the training program.

## Training Features

### Real-life Case Studies

Do a real-life case study to understand the usage in real-world scenarios.

### Assignments

Each class will be followed by a practical assignment which that can be completed before the next class.

## Preparation for interview

Our trainers are professionals working in multinational corporations. They are experts in their field and they know exactly what the interviewer will look for in the candidate. Experienced trainers not only share interview questions but also conduct mock interviews to help prepare for the actual interview.

## Key Features

eMexo Technologies offers the **Best Node.Js Training Course in Electronic City Bangalore** with the TOP industry expert trainers.

Here are the key features.

- ★ Free Demo Class Available
- ★ Practical Approach
- ★ Expert & Certified Trainers
- ★ 100% Job Oriented Training

- ★ Real World use cases and Scenarios
- ★ Completed 500+ Batches
- ★ Certification Guidance

## Unit 1: Introduction to Node.js

- What is Node.js?
- Why Node.js?
- Installing NodeJS
- Node in-built packages (buffer, fs, http, os, path, util, url)
- Node.js Modules
- Import your own Package
- Node Package Manager (NPM)
- Local and Global Packages
- Push code to GitHub
- Hands-On

## Unit 2: File System Module and Express.js

- Get Input from Users
- Pass Multiple Arguments with Yargs
- File System Module
- Operations associated with File System Module
- JSON Data
- HTTP Server and Client
- Sending and receiving events with EventEmitter

- Express Framework
- Run a Web Server using Express Framework
- Routes
- Deploy the application using PM2 and Nginx
- Hands-On

### Unit 3: Asynchronous Programming

- Call Stack
- Callbacks, Callback Queue, and Event Loop
- Callback Abstraction
- Callback Chaining
- Promises
- Promise Chaining
- Request Package
- Customizing HTTP Requests
- Error handling with appropriate HTTP codes
- Introduction to template engine (EJS)
- Hands-On

### Unit 4: Integration with MongoDB and Email Server

- Introduction to NoSQL Databases and MongoDB
- Installation of MongoDB on Windows
- Installation of Database GUI Viewer

- Inserting Documents
- Querying, Updating, and Deleting Documents
- Connect MongoDB and Node.js Application
- Exploring SendGrid
- Sending emails through Node.js application using SendGrid
- Hands-On

## **Unit 5: REST APIs and GraphQL**

- REST API
- REST API in Express
- Postman
- MongoDB Driver API
- Express Router
- Mongoose API
- GraphQL
- GraphQL Playground
- Hands-On

## **Unit 6: Building Node.js Applications using ES6**

- ES6 variables
- Functions with ES6
- Import and Export with ES6
- Async/Await
- Introduction to Babel

- Rest API with ES6
- Browsing HTTP Requests with Fetch
- Processing Query String
- Creating API using ES6
- Transpilation
- Building Dashboard API
- Creating dashboard UI with EJS
- ES6 Aside: Default Function Parameters
- Data Validation and Sanitization
- Hands-On

## **Unit 7: User Authentication and Application Security**

- Authentication
- Types of Authentication
- Session Vs Tokens
- JSON Web Tokens
- Bcrypt
- Node-localstorage
- Hands-On

## **Unit 8: Dynamic Client-Server Interaction using Socket.IO**

- Web Sockets
- Socket.io
- Broadcasting Events

- Sharing Your Location
- Event Acknowledgements
- Form and Button States
- Rendering Messages
- Working with Time and Timestamps for determining Location of Messages
- Storing Users, Rendering User List, Tracking Users Joining and Leaving
- Deploying the Chat Application
- Redis – Building API with Redis
- Hands-On

## Unit 9: Testing Node.js Applications

- Writing Tests and Assertions
- Testing Asynchronous Code
- Testing an Express Application
- Setup and Teardown
- Testing with Authentication
- Advanced Assertions
- Mocking Libraries
- Wrapping up User Tests
- Setup Task Test Suite
- Testing with Task Data
- Hands-On

## Unit 10: Microservices Application

- Why Microservices?
- What are Microservices?
- Why Docker?
- What is Docker?
- Terminologies in Docker
- Child Processes
- Types of child process
- Hands-On

### FAQs

**1. How is the training organized? How much percentage is theoretical and how much is practical hands-on?**

We at eMexo believe nothing beats hands-on practice when it comes to learning a concept. Our teaching methodology is 100% practical and hands-on-oriented. You learn a concept, you practice it then and there with the trainer. We also give you assignments for each topic which you can practice at home and any doubts regarding the topic can be cleared with the trainer the next day.

**2. What is the course duration? How and when do you plan to complete the course?**

We generally cover our courses in 30 hours, however, we are aware that we can't put a hard- stop to learning with a number. Our trainer will make sure that you have learned everything that is part of the curriculum. This could mean 28 hours or 35 hours, doesn't matter.

**3. What is the material provided in the training?**

We have industry standard course material which is used by our trainers to train you. At the end of the training apart from the notes which you have taken during the course, we will also provide you with the training material which was used. This training material includes the training content, interview questions, etc.



#### **4. Do you help in preparing for the interview?**

Our trainers are working professionals who work in MNCs. They are the expert in their domain and they know exactly what an interviewer looks into a candidate. Our expert trainers apart from sharing the interview questions will also conduct mock interviews to help you prepare for the real interview.

#### **5. Who are your trainers?**

Our trainers are industry experts who work in their respective technologies day in and day out. They work in MNCs and are technology experts within their organizations.

#### **6. What is the total batch size per course?**

We maintain a strict batch size of a maximum of 5 students. We also provide exclusive one-to-one training as well. Talk to our training partner to get more details.

#### **7. Do you provide certification for the course?**

Yes, at the end of training we provide a certification of completion.

#### **8. Will I be joining a new batch or being merged with another batch?**

You will be added to a new batch.

#### **9. Is fast-track training available?**

Yes, we provide fast-track training as well for those who want to complete the course faster. The curriculum and the total hours required to complete the course will remain the same. However, the trainer will be spending more hours with you to complete the course.

#### **10. Do you assist in job placement?**

Our trainers are expert professionals in their organizations and they often act as the interviewer to hire new candidates. Our trainers will help you prepare your resume with industry standards. After all, they know exactly what to look for in a resume.

#### **11. Timings for training - Regular training/weekend training**

We provide both regular and weekend training. Talk to our training partner to learn more about the timings.

#### **12. Will you be working on a live project during training?**

Yes, apart from doing the hands-on practice our trainer will also be taking a real-world project and working with you for the implementation.

### **13. What happens if I miss a class?**

If you miss a class the content of that class will be taught to you again. With us, you might miss a class but not the content.

### **14. Can I attend a demo before the actual class?**

Yes, absolutely! Talk to our training counselor on phone at **+91-9513216462** or email us at **info@emexotechnologies.com** to arrange a free demo. You can also fill in the contact us form below and we will call you to discuss your training requirements.