



# Node JS


PLACEMENT ORIENTED COURSE AT



## DETAILED CURRICULAM

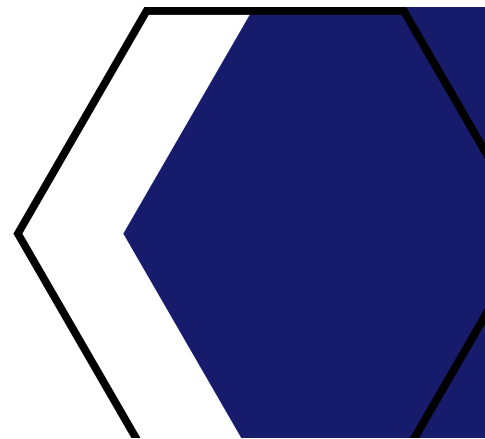
DURATION: 3 MONTHS (3 DAYS A WEEK)

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# Course Overview

NodeJS Fundamentals Course is designed to provide participants with a comprehensive understanding of Node.js, a powerful JavaScript runtime environment. This course will cover the fundamental concepts of Node.js, as well as delve into advanced topics to equip participants with the skills to build scalable and efficient server-side applications. By the end of the course, participants will be proficient in developing robust Node.js applications and leveraging its extensive ecosystem.

## Course Outline

### Module 1: JavaScript ES6

- Introduction to ES6.
- Introduction to variables, Datatypes, Arrow functions, Spread, Rest, Destructuring.
- Arrays and string methods, Date in JS, For (in/of) loops, Map, For Each
- Promises and Asynchronous Programming.
- Settimeout and setInterval Concepts

### Module 2: Introduction to Node JS

- Introduction to Node.js and its key features.
- Understanding event-driven, non-blocking I/O architecture.
- Setting up the development environment.
- Building and running a basic Node.js application.

### Module 3: Node JS Modules & NPM

- Working with Node.js Modules.
- Using NPM (Node Package Manager) to manage dependencies.
- Utilizing popular NPM Packages and libraries.



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# Course Outline

## Module 4: Asynchronous Programming With Node JS

- Understanding the basics of asynchronous programming in Node.js.
- Using Callbacks, Promises and async/await for asynchronous control flow.
- Handling errors and managing exceptions.
- Implementing event-driven programming.

## Module 5: Web Development with Express JS

- Introduction to Express.js, a popular framework for Node.js
- Setting up an Express application.
- Routing and Handling HTTPS application.
- Middleware Usage and Creation.
- Templating engines and server side rendering.

## Module 6: Data Persistence with Databases

- Working with databases in Node.js (eg MongoDB, MySQL etc)
- Performing CRUD Operations and Data Modelling.
- Implementing Database Migrations and Handling Transactions.

## Module 7: Restful API Development

- Designing and developing Restful API using Express.js
- Implementing CRUD Operations with Restful Principles.
- Authentication and Authorization using JWT (JSON Web Token)
- Handling Input Validation and error handling.
- API Documentation with tools like Swagger.
- API testing using Postman.



# Course Outline

## Module 8: Project Development & GIT

- Collaborative Project Development using Node.js.
- Applying the learned concepts to build a complete Node.js application.
- Best Practices, Project Organization and code structure.
- Learning Concepts of GIT and Committing the project on GIT.

# Launching Your Career

## Customized Placement Assistance Program

- Profile Building
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- Aptitude Based Learning
- Mock Interviews
- Placement Assistance

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NoSQL



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- BCA / MCA
- Diploma / PGDM
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## Why enroll for Node JS Training Course?

- Live Interactive Learning
- World-Class Instructors
- Expert-Led Mentoring Sessions
- Expert-Led Mentoring Sessions
- Hands-On Project Based Learning
- Industry-Relevant Projects
- Quizzes & Assignments
- Industry Recognised Certification

## FOR ANY QUERIES ON COURSE

### VISIT US AT

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