

FULL CURRICULUM • 2026

# Nest JS

Build the backend that serious applications run on.

Every module, every lesson — the complete syllabus, end to end.

10

MODULES

48

LESSONS

3

MONTHS

₹18,000

FULL PROGRAMME

## What this course covers

1

### Level 1 • Beginner

NestJs course • Introduction to NestJS and Setup • NestJS Fundamentals

1 month • 3 modules • 10 lessons • ₹4,500

2

### Level 2 • Intermediate

Dependency Injection and Modules • Data Persistence with TypeORM • Authentication and Authorization

1 month • 3 modules • 19 lessons • ₹6,000

3

### Level 3 • Advanced

Advanced Request Handling • Testing in NestJS • Project Structure and Best Practices

1 month • 4 modules • 19 lessons • ₹7,500

# The whole journey

This is the complete syllabus for Nest JS — 10 modules and 48 lessons, in the order you will learn them. The level markers show how far each stage carries you, but the curriculum runs as one continuous path from the first lesson to the last.

1

## LEVEL 1

# Beginner

NestJs course · Introduction to NestJS and Setup · NestJS Fundamentals

1 month · 3 modules · 10 lessons · ₹4,500



## 1. NestJs course

1 lessons

- Introduction SetUp



## 2. Introduction to NestJS and Setup

5 lessons

- Course introduction and overview
- Understanding NestJS architecture
- Setting up the development environment
- Starting up a NestJS application
- IDE configuration and tools



## 3. NestJS Fundamentals

4 lessons

- Core concepts\_ Controllers, Services, and Modules
- Request Handling and Routing with Decorators
- Validation Pipes and DTOs
- RESTful API with NestJS (CRUD Operations)

2

## LEVEL 2

# Intermediate

Dependency Injection and Modules · Data Persistence with TypeORM · Authentication and Authorization

1 month · 3 modules · 19 lessons · ₹6,000



## 4. Dependency Injection and Modules

6 lessons

- Understanding Inversion of Control principle
- Dependency Injection in NestJS
- Creating and using Services
- Creating feature modules
- Introduction to Repositories pattern
- Module communication and DI between modules

## 5. Data Persistence with TypeORM

7 lessons

- Introduction to TypeORM and how it works
- Setting Up MySQL and Installing TypeORM
- Creating entity classes using typeorm decorators
- What are repositories and how to use them in nestjs with typeorm
- Implementing full crud operations with repository methods
- Query Building and filtering in nestjs with typeORM
- Relationship Mappings In nestjs with typeorm

## 6. Authentication and Authorization

6 lessons

- Authentication and Authorization Project SetUp
- Secure Password Handling
- JWT Authentication
- Session-based Authentication
- Auth Guards
- Role Based Access Control (RBAC)

3

LEVEL 3

# Advanced

Advanced Request Handling · Testing in NestJS · Project Structure and Best Practices

1 month · 4 modules · 19 lessons · ₹7,500

## 7. Advanced Request Handling

5 lessons

- Custom parameter decorators
- Interceptors for requestresponse transformation
- Response serialization and DTO transformation
- Exception filters and custom exceptions
- Middleware implementation

## 8. Testing in NestJS

6 lessons

- Introduction to testing in NestJS
- Unit testing controllers and services
- Using mocks effectively
- End-to-end (E2E) testing
- Test database setup and management
- Testing authentication flows

## 9. Project Structure and Best Practices

4 lessons

- Scalable project organization
- Environment-specific configuration
- Logging and error handling best practices
- Performance optimization techniques

## 10. Deployment and Production

4 lessons

- Database migrations with TypeORM
- Environment-specific database configuration
- Preparing for production deployment
- Deployment options and CICD overview

## Certificates & what comes next

You receive a certificate at the end of every level you finish. Join for a single level or the full programme — the choice is yours. Learners who stand out may be invited to work on live client projects as interns; these places are merit-based, limited, and depend on projects being available.