

Since 2007, Making IT Experts & Products

Course: MongoDB

Duration: 90 Hrs (Changeable) | Fees: Individual / Batch

Since 2007, Nestsoft TechnoMaster has been providing training, internships, and services in IT technologies, both online and offline, with the expertise of **over 250 industry experts**. We have delivered internships, training, and seminars to more than 50,000 students, resulting in numerous success stories. **We offer 100% placement support through JobsNEAR.in**

Our Courses/Internship

- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, SalesForce, Sap
- Microsoft Excel
- Ethical Hacking



Syllabus on the Next Page ..



Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

+91 9895490866

+91 8301010866

join@nestsoft.com

www.nestsoft.com

Since 2007, Making IT Experts & Products

Module 1: Introduction to NoSQL

- * What Is NoSQL?
- * Why NoSQL databases are required
- * Types of NoSQL Database
- * NoSQL vs SQL Comparison
- * ACID & BASE Property
- * CAP Theorem
- * Benefits of NoSQL databases
- * Installation
- * Start and Stop the MongoDB process


Module 2: MongoDB Architecture

- * Document, Collection, Databases
- * JSON and BSON
- * Storage Engines
- * Read Path
- * Journaling
- * Write Path
- * Working Set
- * Capped Collection
- * Oplog collection
- * TTL Index
- * GridFS

Module 3: CRUD Operations

Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

 +91 9895490866

 +91 8301010866

 join@nestsoft.com

 www.nestsoft.com

- * MongoDB Data Types
- * Inserting, Update, Deleting the documents
- * Querying the documents
- * Bulk insert operation
- * Updating multiple document
- * Limiting documents
- * Filtering documents

Module 4: Schema Design and Data modeling

- * Dynamic Schema
- * What is Data modeling?
- * RDBMS and MongoDB Data modeling difference
- * Embedding Document
- * Reference Document

Module 5: Indexes


- * Index concepts in MongoDB
- * Types of indexes
- * Indexes and its use cases
- * Creating Indexes
- * Managing Indexes
- * Index strategies

Module 6: Database Administration in MongoDB

- * Database status

Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

 +91 9895490866

 +91 8301010866

 join@nestsoft.com

 www.nestsoft.com

- * Troubleshooting issues
- * Current Operations
- * Rotating log files
- * Users and Roles
- * Copy and Clone database
- * DB and Collection Stats
- * Explain plan
- * Profiling
- * Changing configuration files
- * Upgrading the database

Module 7: MongoDB: Backup and Security

- * Concept of backups
- * mongoexport/mongoimport
- * mongodump/mongorestore
- * Oplog backups
- * LVM Backups
- * Backups using MMS/Ops Manager
- * Purpose of security
- * Authentication and authorization
- * Role based access control

Module 8: Replication in MongoDB

- * Concept of replication

Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

☎ +91 9895490866

☎ +91 8301010866

✉ join@nestsoft.com

🌐 www.nestsoft.com

Since 2007, Making IT Experts & Products

- * ReplicaSet member roles
- * Voting and Electing primary
- * Role of Oplog in replication
- * Read and Write Concern
- * Arbiter, Hidden and Delayed replica node
- * Priority settings
- * Replicaset nodes health check
- * Concept of resyncing the nodes
- * Rollbacks during failover
- * Keyfile authentication


Module 9: MongoDB Scalability

- * Concept of Scalability
- * Sharding concept
- * Shardkey and Chunks
- * Choosing shardkey
- * Sharding components
- * Types of Sharding
- * Balanced data distribution
- * Sharded and Non-sharded collection
- * Sharded Replicaset
- * Tag aware sharding

Module 10: MongoDB Monitoring and Other Tools

Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

 +91 9895490866

 +91 8301010866

 join@nestsoft.com

 www.nestsoft.com

Since 2007, Making IT Experts & Products

- * MMS Manager
- * Ops Manager
- * Mongo utility commands
- * Mongo developer tools
- * MongoDB Atlas
- * MongoDB client drivers

(Click on Course for more details)

Course: MongoDB


Duration: 90 Hrs (Changeable) | Fees: Individual / Batch


- Thank You -

N.B: This syllabus is not final and can be customized as per requirements / updates.

Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

 +91 9895490866

 +91 8301010866

 join@nestsoft.com

 www.nestsoft.com