



# GETIN TECHNOLOGIES

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## **COURSE NAME: MONGODB TRAINING**

[Visit our website for Course Fees and Course Duration](#)

### **Placement Eligibility:**

**Eligible:** Any Bachelor Degree, Any Master Degree, MBA

**No Eligible:** Diploma

### **Class Mode:**

**Classroom | Online | Recorded Session | AI Session**

**If you have Completed Course, You want only Placements**

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# MONGODB SYLLABUS

## Introduction to MongoDB

- Introduction to NoSQL and MongoDB
- Advantages of MongoDB over SQL databases
- MongoDB Architecture
- MongoDB Data Types
- Installation and Configuration

## MongoDB Data Modeling

- Data Modeling Concepts
- Understanding BSON and JSON
- Schema Design Patterns
- Embedded Data Model
- Normalization and Denormalization
- Data Modeling Best Practices

## MongoDB Query Language

- CRUD Operations
- Query Language
- Query Optimization
- Projection, Sorting and Limiting Results
- Aggregation Framework
- Query Examples

## Indexing and Query Optimization

- Indexing Concepts
- Single Field and Compound Indexes
- Geospatial Indexes

- Text Search Indexes
- Query Profiling and Optimization
- Best Practices for Indexing and Query Optimization

## Replication and Sharding

- Replication Concepts
- Replica Set Deployment
- Read and Write Concerns
- Sharding Concepts
- Sharded Cluster Deployment
- Managing Replication and Sharding

## MongoDB Administration

- Backup and Restore
- Security
- Monitoring and Optimization
- Troubleshooting and Performance Tuning
- Best Practices for MongoDB Administration

## MongoDB and Applications

- Introduction to MongoDB Drivers
- Building Applications with Python and Java
- Building RESTful APIs with MongoDB
- Case Studies and Best Practices