

GUIDANCE POINT:- PUNE'S PREMIER EDUCATION HUB

Welcome to Guidance Point, your ultimate destination for comprehensive education and professional development! At Guidance Point, we believe in empowering individuals to unlock their full potential through accessible and high-quality education. With a vast array of courses covering all domains, from technology to arts, business to sciences, we strive to cater to the diverse learning needs of our users. Whether you're a student looking to enhance your academic performance, a professional aiming to upskill or reskill, or an enthusiast eager to explore new interests, Guidance Point is here to guide you every step of the way. What sets us apart is our commitment to excellence. We meticulously curate our course offerings, partnering with the best institutes and industry experts to ensure that you receive top-notch education that is both relevant and practical. Our platform leverages cutting-edge technology and innovative teaching methodologies to deliver engaging and immersive learning experiences.

BENEFITS:-

1. Comprehensive Course:

Our comprehensive course ensures thorough coverage of essential topics, equipping you with a well-rounded understanding of your subject matter, setting a strong foundation for your future endeavors.

2. Top Institute Partnerships:

Through our partnerships with leading institutes, you gain access to world-class resources, expert guidance, and prestigious

certifications, empowering you to excel in your field and stand out among your peers.

3. Advanced Learning Technology:

Leveraging advanced learning technology, we offer dynamic and interactive learning experiences, incorporating simulations, virtual labs, and multimedia resources to enhance comprehension and retention of complex concepts.

4. Supportive Community:

Join our vibrant and supportive community of learners, mentors, and industry professionals, where you can collaborate, seek advice, and find encouragement, fostering a conducive environment for growth and success.

5. Personalized Learning Paths:

Tailor your learning journey to suit your unique needs and goals with our personalized learning paths, allowing you to progress at your own pace and focus on areas that align with your interests and career aspirations.

6. Quality Assurance Standards:

Rest assured that our courses adhere to rigorous quality assurance standards, ensuring that you receive high-quality instruction, updated curriculum, and valuable resources that meet industry benchmarks and standards.

7. Interactive Learning:

Engage in dynamic and interactive learning experiences through our immersive course content, live sessions, quizzes, and discussions, promoting active participation, collaboration, and deeper understanding of the material.

8. Career Opportunities:

Explore abundant career opportunities and pathways in your chosen field, supported by our comprehensive curriculum, industry partnerships, and career services, empowering you to pursue your dream job and achieve professional success.

SYLLABUS

1. INTRODUCTION TO MONGODB

- Introduction to MongoDB and its advantages over traditional SQL databases
- Installing MongoDB and setting up the development environment
- Understanding document-oriented data modeling in MongoDB
- CRUD operations in MongoDB: Create, Read, Update, Delete

2. MONGODB QUERY LANGUAGE (MQL)

- Overview of MongoDB Query Language (MQL)
- Querying documents using find(), findOne(), and aggregate()
- Sorting, filtering, and projecting data in MongoDB queries
- Advanced querying techniques and operators

3. DATA MODELING WITH MONGODB

- Designing schemas and data models for MongoDB collections
- Understanding relationships and embedding vs. referencing data
- Schema validation and enforcing data integrity constraints
- Indexing and optimization techniques for MongoDB queries

4. WORKING WITH MONGODB AND NODE.JS

- Introduction to the MongoDB Node.js Driver
- Connecting Node.js applications to MongoDB databases
- Performing CRUD operations using Node.js and MongoDB
- Error handling and asynchronous operations in MongoDB with Node.js

5. BUILDING RESTFUL APIS WITH MONGODB

- Designing RESTful APIs with MongoDB as the backend database
- Implementing CRUD operations for API endpoints
- Handling HTTP methods (GET, POST, PUT, DELETE) in RESTful API routes
- Error handling and validation in API development with MongoDB

6. DATA AGGREGATION AND PIPELINE

- Understanding the MongoDB Aggregation Framework
- Performing data aggregation operations using pipelines

- Aggregation operators and expressions in MongoDB
- Aggregation stages and optimizing pipeline performance

7. MONGODB ATLAS AND DEPLOYMENT

- Introduction to MongoDB Atlas, a cloud-based MongoDB service
- Deploying MongoDB databases on MongoDB Atlas
- Managing database clusters and scaling resources
- Best practices for database security and backup on MongoDB Atlas

8. ADVANCED TOPICS AND PROJECT

- Implementing data sharding and replication for high availability
- Using MongoDB for real-time data processing and analytics
- Building a full-stack project integrating MongoDB with frontend and backend technologies
- Project presentations and feedback sessions