ADACODE SOLUTIONS

CLOUD COMPUTING

About Us

Adacode Solutions excels in innovative software solutions, specializing in IoT, Robotics, Cloud, Data Science, and more. Trust us as your partner for cutting-edge solutions, shaping the future of technology.

We Provide

- **Scholarship for Students**
- **Education Loan**
- **Life time Placement Support**
- **Online and Offline Classes**
- **Life time Access to course Materials**

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Industrial Experts

We have industrial experts to teach you our courses.

100% Genuine Placements

We offer 100% placement support.

Interview Assistance

We offer interview preparation assistance with industry experts.

Collage Project Assistance

We provide college final year project assistance.

Aptitude Practice Sessions

We offer aptitude sessions for comprehensive skill development.

English Training

We provide English training for effective language proficiency.

Soft Skill Sessions

We offer soft skill sessions for holistic professional development.

3rd Floor, Four Wings Building
Panniyankara,Kozhikode

www.adacodesolutions.com

adacodesolutions@gmail.com

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Who Should Join This Course

- Tech professionals pursuing cloud computing proficiency.
- Aspiring cloud architects and system administrators.
- Individuals aiming for expertise in cloud technologies.

Course Details

Duration: 6-8 Months

9 Modules

Unlimited Lab Access

Final Project

Project Certificates

Course Certificates

English Training Sessions

Monthly Mock Interview Sessions

IEEE Certified Projects

Course Content

- Introduction to Cloud Computing
- Cloud Infrastructure
- Cloud Service Models
- Cloud Deployment Models
- Cloud Security and Compliance
- Cloud Management and Monitoring
- Cloud Application Development
- Emerging Trends and Advanced Topics
- Capstone Project

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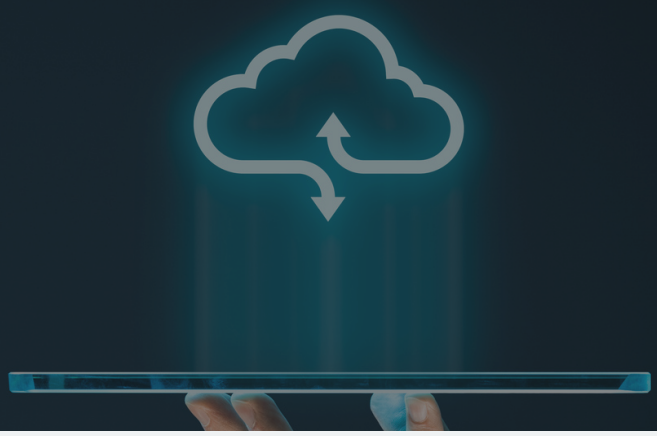

Syllabus

Introduction to Cloud Computing

- Overview of Cloud Computing
- Evolution and History
- Cloud Service Models (IaaS, PaaS, SaaS)
- Deployment Models (Public, Private, Hybrid, Multi-Cloud)
- Cloud Characteristics (Scalability, Elasticity, Resource Pooling, Self-service, etc.)
- Cloud Benefits and Challenges

Cloud Infrastructure

- Virtualization Technologies
- Hypervisors and Containers
- Networking in the Cloud
- Storage in the Cloud
- Compute Resources (VMs, Containers, Serverless)
- Security in Cloud Infrastructure

Cloud Service Models

- Infrastructure as a Service (IaaS)
- Virtual Machines
- Storage Services
- Networking Services
- Platform as a Service (PaaS)
- Application Platforms
- Database Services
- Software as a Service (SaaS)
- Examples and Use Cases

Cloud Deployment Models

- Public Cloud
- Leading Providers (AWS, Azure, Google Cloud, etc.)
- Services and Offerings
- Private Cloud
- On-premises and Hosted Solutions
- OpenStack and VMware
- Hybrid and Multi-Cloud Strategies
- Challenges and Best Practices

Cloud Security and Compliance

- Security Fundamentals
- Identity and Access Management (IAM)
- Data Encryption
- Network Security
- Compliance and Governance
- Incident Response and Management

Cloud Management and Monitoring

- Cloud Resource Management
- Automation and Orchestration
- Monitoring and Logging
- Performance Optimization
- Cost Management and Optimization

Cloud Application Development

- Cloud-Native Principles
- Microservices Architecture
- Containers and Orchestration (Docker, Kubernetes)
- Serverless Computing
- DevOps in the Cloud

Emerging Trends and Advanced Topics

- Edge Computing
- Machine Learning in the Cloud
- Serverless Computing
- Blockchain and Cloud
- Future Trends in Cloud Computing

Capstone Project

- Apply learned concepts to a real-world project
- Design and implement a cloud-based solution
- Presentation and demonstration of the project

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