

# DEVOPS



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# What Is DEVOPS ?

This Course Provides An Overview Of DevOps Principles, Practices, And Tools. Students Will Learn How To Streamline The Software Development Lifecycle Through Collaboration, Automation, And Continuous Integration/Continuous Delivery (CI/CD) Pipelines.



## Course Structure

- ➔ **3 Months Course**
- ➔ **3 Months Internship**
- ➔ **100% Placement Assistance**

## Course Objectives

- ➔ **Understand The Core Concepts And Principles Of DevOps**
- ➔ **Learn How DevOps Improves Collaboration Between Development And Operations Teams**
- ➔ **Gain Hands-On Experience With Popular DevOps Tools And Technologies**
- ➔ **Implement CI/CD Pipelines To Automate Software Delivery**
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# DevOps Syllabus

## ➔ INTRODUCTION TO DEVOPS

1. Definition of DevOps
2. Evolution of DevOps
3. Benefits of DevOps

## ➔ DEVOPS CULTURE AND PRACTICES

1. Agile methodology
2. Continuous integration (CI) and continuous delivery (CD)
3. Infrastructure as Code (IaC)
4. Collaboration and communication

## ➔ DEVOPS TOOLS AND TECHNOLOGIES

1. Version control systems (e.g., Git)
2. Continuous integration tools (e.g., Jenkins, Travis CI)
3. Configuration management tools (e.g., Ansible, Chef, Puppet)
4. Containerization and orchestration (e.g., Docker, Kubernetes)

## ➔ CI/CD PIPELINES

1. Building CI/CD pipelines
2. Automated testing
3. Deployment strategies

## **MONITORING AND LOGGING**

1. Monitoring tools (e.g., Prometheus, Grafana)
2. Log management (e.g., ELK stack)
3. Performance optimization

## **SECURITY IN DEVOPS**

1. DevSecOps principles
2. Secure coding practices
3. Security testing tools

## **CASE STUDIES AND REAL-WORLD APPLICATIONS**

1. Examining successful DevOps implementations
2. Challenges and lessons learned

## **ASSESSMENT METHODS**

1. Quizzes and exams
2. Hands-on labs and assignments
3. Project work (e.g., building CI/CD pipelines, automating deployment processes)
4. Class participation and discussions

### Textbook

1. "The DevOps Handbook" by Gene Kim, Patrick Debois, John Willis, and Jez Humble

## Additional Resources

1. Online tutorials and documentation for DevOps tools
2. Research papers and articles on DevOps best practices

## Prerequisites

1. Basic understanding of software development and IT operations
2. Familiarity with Linux command line



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