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राष्ट्रीय इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी संस्थान
National Institute of Electronics & Information Technology
(An Autonomous Scientific Society of MeitY, Govt. of India)

A Beginner's Guide to DevOps

DEVOPS & CLOUD ENGINEERING

DevOps Career Roadmap



MODE
ONLINE



DURATION
03 HOURS



COURSE FEE
₹100 ONLY

COURSE CONTENT

1 Understand DevOps Fundamentals

- What is DevOps?
- DevOps Principles & Culture
- DevOps vs Traditional IT
- DevOps Lifecycle Overview

2 Computer and Linux Fundamentals

- Basics of Computers
- Operating Systems
- Linux Basics
- Linux Commands

3 The DevOps Roadmap (11 Phases)

- Plan
- Code
- Build
- Test
- Release
- Deploy
- Operate
- Monitor
- Feedback
- Secure
- Optimize

7 DevSecOps

- Shift-Left Security
- Secure Coding Practices
- Static Application Security Testing

4 Tools You'll Actually Use

- Version Control with Git & GitHub
- CI/CD with Jenkins
- Containerization with Docker
- Orchestration with Kubernetes
- Infrastructure as Code (IaC)
- Configuration Management
- Monitoring & Logging Tools
- Cloud Tools (AWS Basics)

5 Career and Future of DevOps

- DevOps Engineer Roles
- Skills in Demand
- Career Growth Path
- Certifications Guide
- Future Trends in DevOps

6 Learning Plan

- Semester-wise Learning Plan
- Skills to Build
- Projects to Practice
- Resources & Roadmap

PROGRAM OUTCOMES



1.
Understand
DevOps
Fundamentals



2.
Computer and
Linux
Fundamentals



3.
DevOps
Roadmap
Mastery



4.
Cloud
Technologies



5.
Real-World
DevOps
Problems



6.
Industry
Careers



aws



WHY JOIN THIS PROGRAM?

- ✓ Learn the complete DevOps roadmap from beginner to advanced level.
- ✓ Explore popular tools such as git, cloud, docker, kubernetes, and ci/cd platforms.
- ✓ Prepare for high-demand DevOps careers with strong career potential.
- ✓ Get a clear learning path, certifications guidance, and career roadmap.

TECHNOLOGY STACK OVERVIEW



Git



GitHub



Docker



Kubernetes



Jenkins



AWS



Linux



Terraform



SonarQube

DEVOPS CAREER OPPORTUNITIES

- DevOps Engineer
- Cloud Engineer
- Site Reliability Engineer
- Platform Engineer
- Automation Engineer



High Growth
Industry
Excellent
Career
Potential



WEBINAR DATE

17 July 2026

2:00 PM to 5:00 PM

LIMITED SEATS AVAILABLE

★ Secure Your Spot Now! ★

WHO SHOULD JOIN?



B.Tech
Students



Diploma
Students



Beginners



Aspiring
Cloud
Engineers



Future
DevOps
Engineers



COURSE COORDINATOR
Sh. Abhinav Mishra
Scientist - D
NIELIT Gorakhpur



INSTRUCTOR
Sh. Satyam Singh
Project Associate
NIELIT Gorakhpur



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<https://regn.nielitvte.edu.in>



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EMPOWERING YOUTH WITH DIGITAL SKILLS