

Activity Title	DevOps with Kubernetes
Date	20/09/2025 and 27/09/2025
Venue	Virtual mode
Resource Person	Mr. Salmon Joy
Faculty In charge	Prof. Aasha Kantekar
Audience	Final year students
Total Participants	30
	The primary goals of this hands-on workshop were to equip participants with the fundamental principles and practical skills necessary to implement a modern, automated application delivery pipeline using DevOps methodologies, Kubernetes for orchestration, and Git/GitHub for version control and collaboration. Specific objectives included: • Understanding the core concepts of DevOps and CI/CD (Continuous Integration/Continuous Deployment). • Mastering the Git workflow and utilizing GitHub for team collaboration and repository management. • Gaining proficiency in containerization fundamentals with Docker. • Learning to deploy, manage, and scale applications using Kubernetes primitives. • Implementing a fully automated CI/CD pipeline leveraging Git, containerization, and Kubernetes. Key Takeaways and Outcomes • Version Control: Participants successfully navigated advanced Git workflows and utilized GitHub for professional, collaborative code management. • Infrastructure as Code (IaC): Attendees practiced defining application and Kubernetes infrastructure using declarative YAML files. • Continuous Delivery: The workshop culminated in building a working CI/CD pipeline, demonstrating the ability to automate

	the entire software release process from code commit to running application in Kubernetes. Hands-on Proficiency: High engagement in the hands-on sessions resulted in practical experience with core tools: git, docker, kubectl, and CI/CD pipeline configuration
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