

Department of Artificial Intelligence & Data

**Value added Course on AWS for DevOps
(08/12/2025 to 12/12/2025)**

Science

Event Report

Event Information
Event Type: Value added Course
Event Topic: AWS for DevOps
Name of the Resource Person: Mr. Gandhar Khaladkar, Mr. Akshay Jadhav, Prof. Rohini Gaikwad, Prof. Darshana Wajekar
Event date: 08/12/2025 to 13/12/2025
Organized for: SE, TE students of all branches
Organized by: Artificial Intelligence and Data Science Department
No of Students attended: 30
Attachments: 1. Event Description 2. Photographs 3. Attendance 4. Impact Analysis

Event Description

Department of Artificial Intelligence and Data Science of SIES Graduate School of Technology, Nerul, Navi Mumbai has successfully conducted value added course on “**AWS for DevOps**” for SE, TE and BE students of AIML/IOT/AIDS/CE/ECS/IT/EXTC/Mechanical branch from 08/12/2024 to 12/12/2025.

AWS for DevOps aims to provide students with practical, industry-aligned experience in building, deploying, and managing applications on the AWS cloud using DevOps practices. As modern software systems increasingly rely on cloud platforms for scalability, security, and automation, this SDP introduces learners to the essential AWS services and DevOps tools used in real-world environments.

The course begins with foundational concepts of cloud computing and AWS services, followed by hands-on labs covering networking with VPC, storage solutions using S3 and RDS, load balancing, auto scaling, and access management with IAM. Students also gain experience with source code management tools like Git/GitHub and AWS Developer Tools to build CI/CD pipelines that automate the development lifecycle. The SDP culminates in a capstone project where students design and deploy a complete cloud-based application, integrating compute, networking, storage, security, and automation components. Through this project-based learning approach, students develop the practical skills and confidence required for cloud-native DevOps roles in the IT industry.

The following are some of AWS for DevOps characteristics:

📄 **On-Demand Resource Provisioning**

Quickly create servers, containers, networks, and storage anytime without manual setup.

📄 **High Scalability & Elasticity**

Auto Scaling, Load Balancing, and managed services allow applications to handle variable workloads smoothly.

📄 **Infrastructure as Code (IaC)**

Services like **AWS** allow automated, version-controlled infrastructure deployment.

📄 **Automation & Orchestration**

AWS CodePipeline, CodeBuild, CodeDeploy, CodeCommit support fully automated CI/CD workflows.

- **Cost Management**

Pay-as-you-go pricing, cost explorer, budget alerts, and tools for optimizing DevOps infrastructure.

Course Objectives:

- Understand the fundamental concepts of cloud computing, including architecture, deployment/service models, and the relevance of AWS as a global cloud provider.
- Develop skills in AWS networking, including Virtual Private Cloud (VPC), subnets, routing, Internet/NAT gateways, and security groups.
- Gain proficiency in AWS storage and database services, particularly Amazon S3 and RDS, along with their configurations and use cases.
- Learn to design scalable and fault-tolerant applications using AWS Elastic Load Balancer (ELB), Auto Scaling, and Identity and Access Management (IAM).
- Acquire hands-on experience with version control systems (Git, GitHub) and AWS developer tools for CI/CD pipelines.
- Apply cloud architecture principles to plan, implement, and deploy an end-to-end cloud solution through a capstone project.

Course Outcomes:

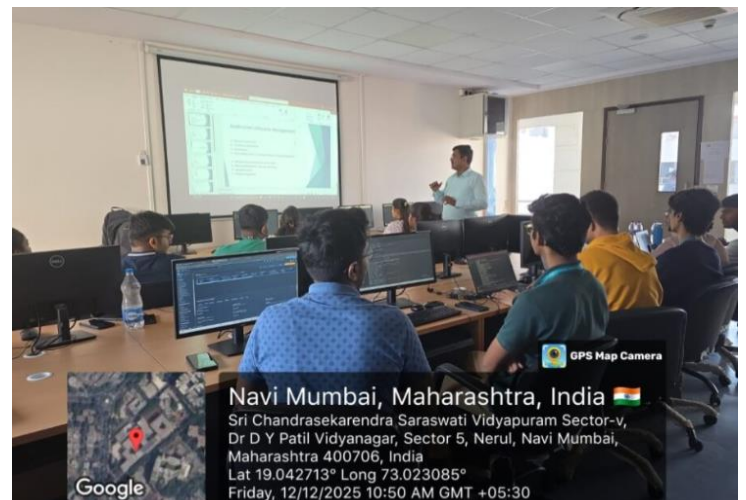
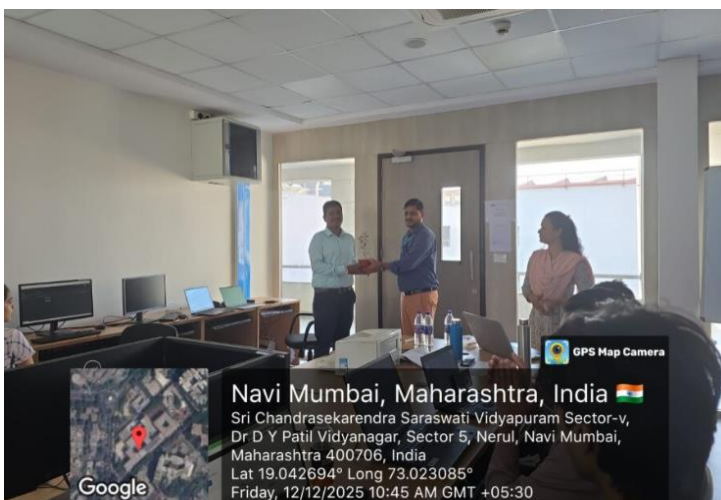
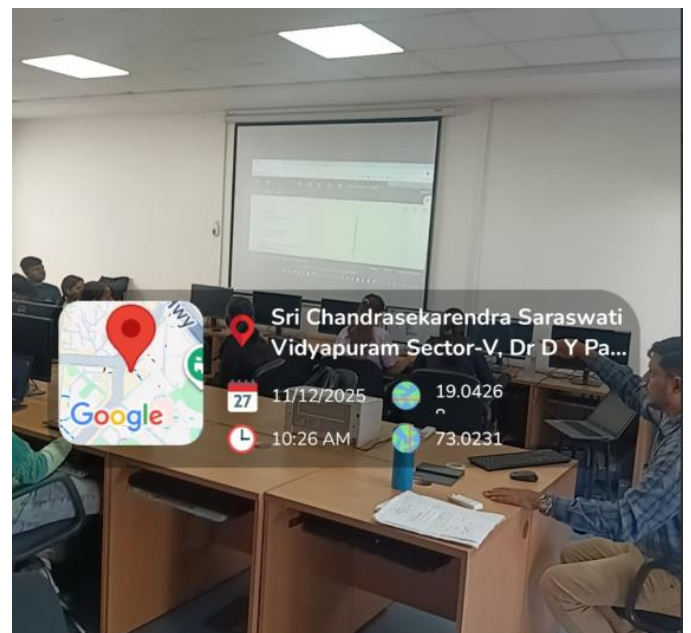
After This Course the students should be able to:

- Explain cloud computing concepts, AWS global infrastructure, and core AWS services.
- Configure and manage networking components in AWS, including VPCs, subnets, route tables, gateways, and security mechanisms.
- Create and manage cloud storage using Amazon S3 and configure relational databases using RDS with appropriate security and backup options.
- Design and deploy scalable architectures using Load Balancing, Auto Scaling groups, and implement role-based access control using IAM.
- Use version control tools like Git/GitHub and implement CI/CD workflows using AWS Developer Tools (CodeCommit, CodeBuild, CodeDeploy, CodePipeline).
- Build a functional cloud-based application as a capstone project, demonstrating the integration of compute, storage, networking, and security best practices on AWS.

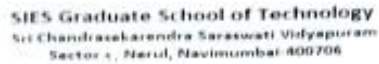
Major topics covered during the workshop are:

- Cloud Computing Introduction & AWS Services
- Networking in AWS, and Virtual Private Cloud
- Storage Service (S3) & RDS
- Load Balancing, Auto Scaling, and AWS IAM
- Source Code Management, Version Control & Developer Tools
- Capstone Project

○ Photograph:



Attendance:



Department of Artificial Intelligence and Data Science

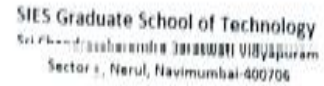
SDP on AWS for DevOps

Attendance Sheet

Date: 08/17/2015

Time: 09-30 AM - 4 PM

	Sl. No.	Name	Roll No	Sign
✓	1	Pooth Tiwari	124A8116	Pooth
✓	2	Lokesh A. Ture	225A8338	Lokesh
✓	3	Sathya Perumal	124A8095	Sathya
✓	4	Advaith Sarma	124A8094	Advaith
✓	5	Angesh Chavankar	225A8128	Angesh
✓	6	Yasser Ahmed	124A8126	Yasser
✓	7	Tabsir Shaikh	124A8100	Tabsir
✓	8	Param Patil	124A8077	Param
✓	9	Savani Samuel Raj	123A8050	Savani
✓	10	Lakshya Ganeshkumar	123A8031	Lakshya
✓	11	Karolini Palaniswamy	123A8025	Karolini
✓	12	Akasha Karthik	123A8005	Akasha
✓	13	Samiksha Dhole	123A8017	Samiksha
✓	14	Toshika Chettier	123A8014	Toshika
✓	15	Sakshi Desai	123A8016	Sakshi
✓	16	Krishnakumar	123A1058	Krishna
✓	17	Krushna Pandey	124A8075	Krushna
✓	18	Ayush Kadam	124A8039	Ayush
✓	19	Hareesh Bhat	225A8127	Hareesh
✓	20	Afrum Shaikh	124A8096	Afrum
✓	21	Franklin Stephen	124A8013	Franklin



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Attendance Sheet

Date: 08/12/19

Time: 03:04 PM - 4:07 PM

Sr No.	Name	Roll No	Sign
✓ 22	Akhata Kattar	124A8042	AK
✓ 23	Beyal Nadar	124A8061	Beyal
✓ 24	Alok Khatri	124A8046	Alok
25	Mast Mourya (bnd)	124A8059	Mast
✓ 26	Nandini Longha	124A8048	Nandini
✓ 27	Yashika Bati	124A8083	Yashika
✓ 28	Karthi Patil	124A8078	Karthi
✓ 29	Aakanksha Sherkar	123A1001	Aakanksha
✓ 30	Jui Borkhate	123A1020	Jui

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Attendance Sheet

Date: 9/12/25

Time: 9:30 AM - 4:00 PM

Sr. No.	Name	Roll No	Sign
1.	Jui Barchote	123A1020	Jui B
2.	Akhata Kattar	124A8042	Ak
3.	Beryl Nadar	124A8061	Beryl
4.	Aakanksha Sherkar	123A1001	Aa
5.	Nandini Londhe	124A8048	Nandini
6.	Afraaz Shaikh	124A8096	Afraaz
7.	PARAM PATIL	124A8077	Param
8.	JOSMUA PEREZ	124A8084	Josmua
9.	Tabsir Shewich	124A8140	Tabsir
10.	Yasees Shewich	124A8126	Yasees
11.	Sakshi Dasari	123A8016	Sakshi
12.	Toshika Chettier	123A8014	Toshika
13.	Shamini Shamuel Raj	123A8050	Shamini
14.	Lakshya Senthikumar	123A8031	Lakshya
15.	Kajipini Palaniswamy	123A8025	Kajipini
16.	Akanksha Karthik	123A8005	Akanksha
17.	Samiksha Dhole	123A8017	Samiksha
18.	Krishnakumar	123A1058	Krishna
19.	Krishna Toudley	124A8075	Krishna
20.	Ayush Kadam	124A8039	Ayush
21.	Harsh Btrji	225A6127	Harsh

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SDP on AWS for DevOps

Attendance Sheet

Date: 09/12/25

Time: 03:30 PM - 04:00 PM

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SDP on AWS

SDP on AWS for DevOps

Attendance Sheet

Date: 10/12/25

Time: 9:30 AM - 04:00 PM

Sr. No.	Name	Roll No	Sign
1.	Aayush Chavanke	225A8128	Aayush
2	Harsh Biji	225A8127	Harsh
3	Ayush Kadam	124A8039	Ayush
4	Krishna Kumar	123A1058	Krishna
5	Shamini Shamini Raj	123A8050	Shamini
6	Lakshya Shantikumar	123A8031	Lakshya
7	Kajalini Patanikumar	123A8025	Kajalini
8	Aakshi Desai	123A8016	Aakshi
9	Toshika Chettier	123A8014	Toshika
10	Advaith Sarma	124A8094	Advaith
11	Krushna Pandey	124A8075	Krushna
12.	Penyl Nadan	124A8061	Penyl
13.	Akshata Katkam	124A8042	Akshata
14.	Franklin Stephen	124A8017	Franklin
15	Alok Khatri	124A8046	Alok
16	Nandini Londhe	124A8048	Nandini
17	PARAM PATIL	124A8077	Param
18	JOSHUA PEREZ	124A8084	Perez
19.	PARTH PATIL	124A8078	P.V. Parth
20.	YADNKA PATIL	124A883	Yadhi
21	Evant Afrag Shaihl	124A8096	Evant

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Attendance Sheet

Date: 10/12/25

Time: 09:30 AM - 04:00 PM

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SDP on AWS for DevOps

Attendance Sheet

Date: 11/12/2013

Time: 9:30 AM - 4:00 PM

Sr. No.	Name	Roll No	Sign
1	Yasser Ahmed	124A8126	
2	Parth Tiwari	124A8116	
3	Adarsh Samra	124A8094	
4	Samiksha Dhoke	123A8017	
5	Sakshi Desai	123A8016	
6	Shammi Shammi Raj	123A8050	
7	Lakshya Kishor Kumar	123A8033	
8	Kajalini Palaniswamy	123A8025	
9	Skandha Karkhik	123A8007	
10	Krishna Kumar	123A8058	
11	Krishna Pandey	124A8075	
12	Ayush Kadam	124A8039	
13	Navya Birja	225A8127	
14	Sathyapornmal	124A8095	
15	Ravi Nadar	124A8061	
16	Anshika Kalkar	121A8042	
17	Franklin Stephen	124A8017	
18	Alak Khatri	124A8046	
19	Nandini Lundhe	124A8048	

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SDP on AWS for DevOps

Attendance Sheet

Date: 11/12/2025

Time: 9:30 AM - 04: PM

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Department of Artificial Intelligence and Data Science

SDP on AWS for DevOps

Attendance Sheet

Date: 12/12/25

Time: 3:00 ^{PM} - 4:00 ^{PM}

Sl. No.	Name	Roll No	Sign
1	Lokesh A. Ture	225A8138	<u>Lokesh</u>
2	Yasser Ahmed	124A8126	<u>Yasser</u>
3	Tahir Shaiikh	124A8108	<u>Tahir</u>
4	Parth Tiwari	124A8116	<u>Parth</u>
5	Jayant Chavanhe	225A8128	<u>Jayant</u>
6	Advaith Sarma	124A8094	<u>Advaith</u>
7	Samiksha Dhole	123A8017	<u>Samiksha</u>
8	Sukli Desai	123A8016	<u>Sukli</u>
9	Tushita Chettiar	123A8004	<u>Tushita</u>
10	Aparna Karchik	123A8005	<u>Aparna</u>
11	Shalini Shant Raj	123A8050	<u>Shalini</u>
12	Lakshya Shankhikumar	123A8091	<u>Lakshya</u>
13	Kajalini Patanikarny	123A8025	<u>Kajalini</u>
14	Kishan Kumar G	123A1058	<u>Kishan</u>
15	Krishna Tandel	124A8075	<u>Krishna</u>
16	Ayush Kadam	124A8019	<u>Ayush</u>
17	Harsh Brij	225A8127	<u>Harsh</u>
18	Afraaz Shaikh	124A8096	<u>Afraaz</u>

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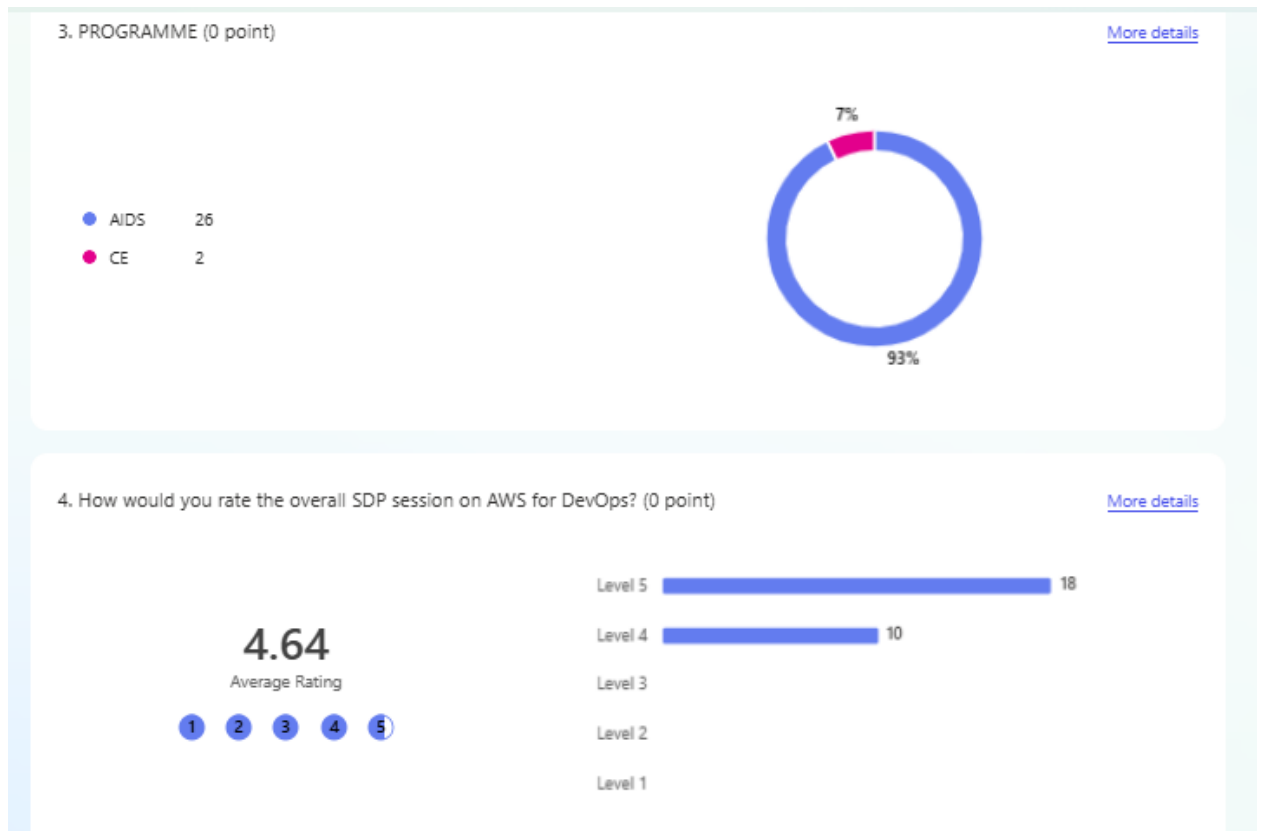
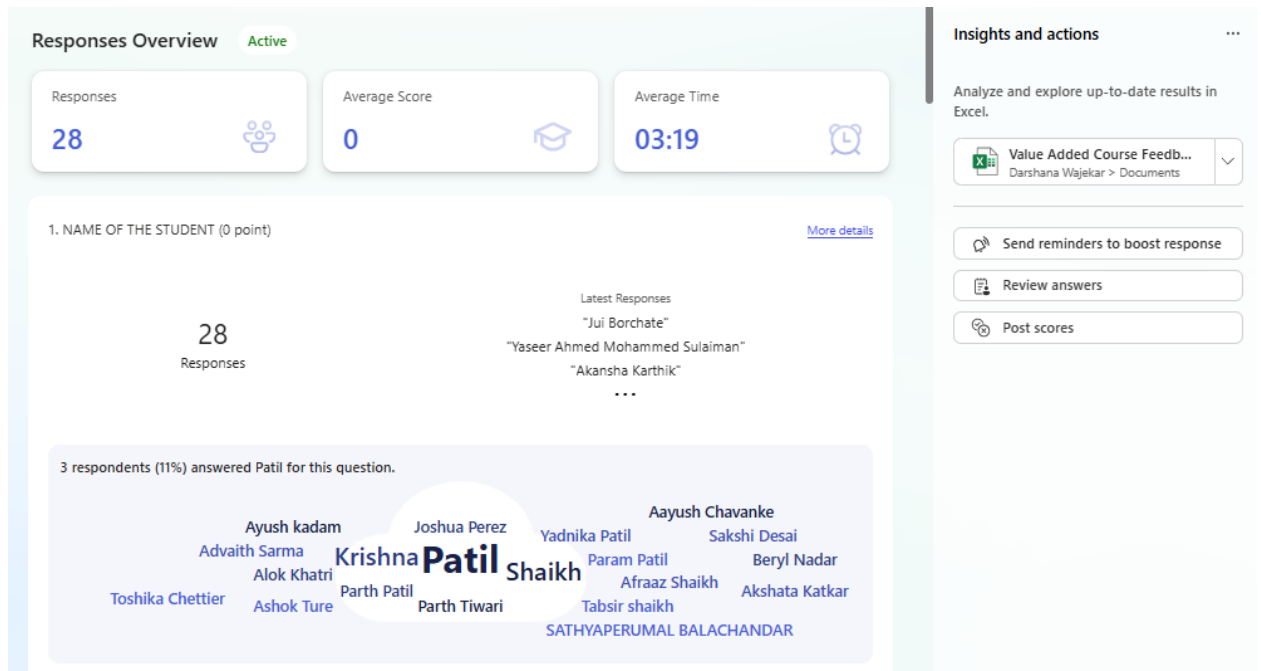
Attendance Sheet

Date: 12/12/25

Time: 09:00 AM - 04:00 PM

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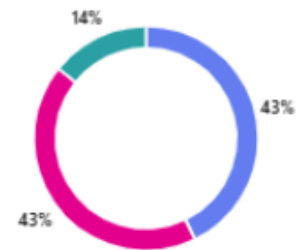
Feedback



5. How satisfied are you with the hands-on activities provided during the session? (0 point)

[More details](#)

Very satisfied	12
Satisfied	12
Neutral	4
Dissatisfied	0



6. Were the AWS concepts (EC2, S3, VPC, IAM, DevOps Tools) explained clearly? (0 point)

[More details](#)

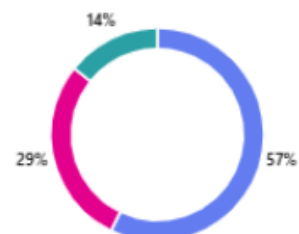
Yes	27
No	0
Somewhat	1



7. How useful was the hands-on practice in understanding DevOps tools on AWS? (0 point)

[More details](#)

Extremely useful	16
Somewhat useful	8
Neutral	4
Somewhat not useful	0
Extremely not useful	0



8. Was the instructor's delivery and explanation easy to understand? (0 point)

[More details](#)

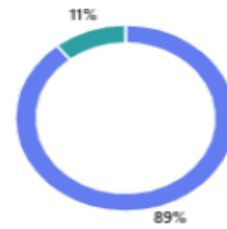
Yes	28
No	0
Maybe	0



9. Did you gain practical knowledge about deploying and managing AWS services? (0 point)

[More details](#)

Yes	25
No	0
Maybe	3



10. How confident do you feel in performing basic DevOps workflows on AWS after the session? (0 point)

[More details](#)

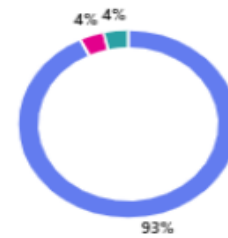
Extremely confident	18
Neutral	10
Extremely not confident	0



11. Was the lab environment satisfactory for hands-on practice? (0 point)

[More details](#)

Yes	26
No	1
Maybe	1



12. Any additional comments or feedback? (0 point)

[More details](#)

28
Responses

Latest Responses
"No"
"Good"
"Far better than last SDP"
...

7 respondents (25%) answered Good for this question.

new practical experiences end project initiative and great nice session
SDP great course things **Good** Great initiative AWS days
ideas and opportunity sessions Good initial great faculty students
complete end time or sessions

Value Added Course on AWS for DevOps
08th Dec to 13th Dec, 2025.

Projects

Group No	Roll No	Names	Departm ent	Project Title
1	124A8116	Parth Tiwari	SE AIDS	CommunitySphere-A scalable cloud-based discussion and community platform
	225A8138	Lokesh Ture		
	225A8128	Aayush Chavanke		
2	123A1058	Krishna Kumar Ganesan	SE CE	Automated Static Website Deployment Using S3 + CloudFront + Jenkins
	124A8039	Ayush Kadam	SE AIDS	
	225A8128	Harsh Birje		
3	124A8095	Sathyaperumal	SE AIDS	Microservices Communication Using VPC Peering
	124A8094	Advaith		
	124A8075	Krishna		
4	123A1001	Aakanksha Sherkar	SE CE	Private Application Deployment using VPC+ NAT Gateway + Bastion Host
	123A1020	Jui Borchate		
5	124A8017	Franklin	SE AIDS	Secure File Sharing System Using S3 + Pre-Signed URLs
	124A8061	Beryl		
	124A8042	Akshata		
6	123A8016	Sakshi	TE AIDS	Cloud-Based Event Registration System on AWS
	123A8014	Toshika		
	123A8017	Samiksha		
7	124A8083	Yadnika Patil	SE AIDS	Java Web Application Deployment using Maven + Tomcat on EC2
	124A8078	Parth Patil		
	124A8077	Param Patil		
8	124A8126	Yaseer Ahmed	SE AIDS	Secure Multi-VPC Banking Microservice Architecture using AWS VPC Peering
	124A8100	Tabsir Shaikh		
	124A81096	Afraaz Shaikh		
9	124A8046	Alok Khatri	SE AIDS	Blue-Green Deployment Using Jenkins + EC2 + ALB
	124A8048	Nandini Londhe		
	124A8084	Joshua Perez		

Group No	Roll No	Names	Department	Project Title
10	123A8050	Salomi Samuel Raj	TE AIDS	Highly Available Auto-Scaling WordPress Application with CloudWatch Monitoring on AWS
	123A8031	Lakshya Senthilkumar		
11	123A8005	Akansha Karthik	TE AIDS	DevOps Monitoring Dashboard Using Jenkins + Git + EC2
	123A8025	Kajolini Palaniswamy		

Impact Analysis

Students successfully completed real-time internship projects using the skills gained in the course. Students gained hands-on experience in designing and deploying EC2 instances for different devices and use cases, improving their practical cloud implementation skills. Overall, the course significantly enhanced students' understanding of cloud architecture, deployment automation, and AWS best practices.