



J.B.INSTITUTE OF ENGINEERING & TECHNOLOGY (UGC AUTONOMOUS)

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Yenkapally (V), Moinabad (M), P.O.Himayat Nagar, R.R District, Hyderabad – 500 075.
PhoneNo:08413-23517,235053,Fax:08413-235753

Department of Computer Science and Engineering

Dated: 07/07/2025

CIRCULAR

We feel great pleasure to inform you that Department of Computer Science and Engineering, JBIET is organizing a Faculty Development Program on Cloud Computing in collaboration with EXCEL.. The Faculty Development Program will be conducted for all Computer Science and Engineering and its allied branches from 14-07-2025 to 18-07-2025 in online mode from 3:00 PM to 5:00 PM.

EVENT CO-ORDINATOR

Head of the Department
Computer Science and Engineering
J B Institute of Engg. & Technology
Yenkapally, Moinabad
Hyderabad-75

Circulated to:

1. *Principal*
2. *Dean Academic*
3. *Staff*
4. *Admin office*



Faculty Development
Program on

CLOUD COMPUTING

in Collaboration with
**Jb institute of engineering
and technology
(JBIET)**

Get Certificate Of
Participation
for **FREE**



14th - 18th JULY 2025

03:00 PM to 05:00 PM

2 hours per day for 5 days : Mon to Fri



**SCAN
ME!!**



+91 96069 57287



edl@excelr.com



www.excelr.com

Profile

Name:Satish shettar



Trainer Profile :

Mr. Satish Shettar

*Technical Architect – Cloud & DevOps
Davangere, Karnataka, India*



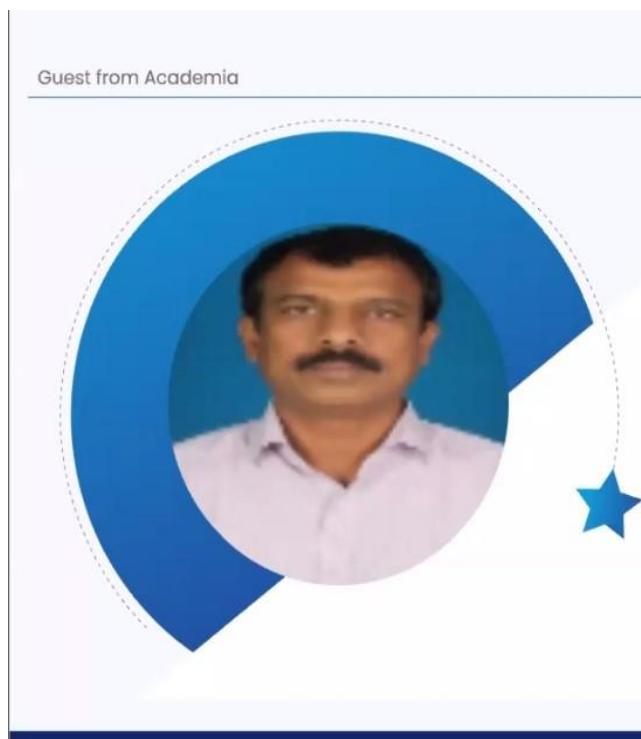
- ❖ **19+ years of experience in Cloud Computing, DevOps, APM, and Automation.**
- ❖ Expertise in **AWS, Kubernetes, Terraform, Ansible, and AppDynamics.**
- ❖ Worked with top companies like **IBM, HCL, Barclays, and Finastra.**
- ❖ Certified in **AWS Solutions Architect, TOGAF, Terraform, OpenShift, and ITIL V3.**
- ❖ Strong hands-on experience in **multi-cloud monitoring and infrastructure setup.**



Inaugural session:

Inaugural Session Speech by the Head of Department Dr.G.Sreenivasulu on the topic of cloud Computing. In today's fast-paced and interconnected world, cloud computing is not just a buzzword—it's a powerful paradigm that is transforming how we think about data, software, infrastructure, and business operations. From startups to tech giants, from education to healthcare, cloud computing is revolutionizing every sector with its scalability, flexibility, and cost-efficiency.

The purpose of this session is to introduce you to the fundamentals of cloud computing, discuss its real-world applications, and ignite a spirit of innovation among all participants. We hope to equip you with both theoretical insights and practical skills that will serve as a foundation for your future endeavors—be it academic research, industrial training, or entrepreneurial ventures.



Guest from Academia

Prof.Dr. G SREENIVASULU
Dean -Associate Professor of CSE & HOD
J.B. Institute of Engineering & Technology

- ◆ Dr. Sreenivasulu Gonuguntla holds a **B.E. (Electronics)**, **M.Tech (CSE)**, and **Ph.D. in Computer Science**.
- ◆ He is **Associate Professor & HOD of CSE** at **JBIET, Hyderabad**.
- ◆ Has **8 years industry, 27 years academic, and 9 years research** experience.
- ◆ His research interests include **AI, ML, Deep Learning, HPC, Big Data**; Life Member of **CSI**.

EXCEL Raising Excellence

Fig -1 HOD-Dr. G.Sreenivasulu is addressing the session on 14th July 2024

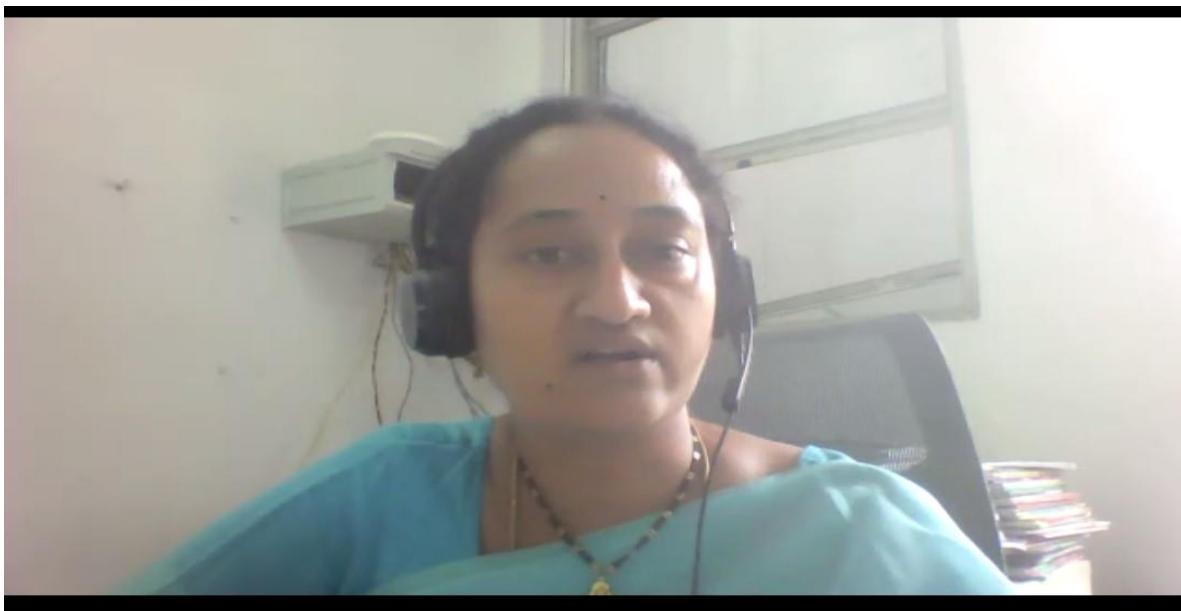


Fig-2 Addressing delegates from various Engineering colleges in online mode



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DEPARTMENTOFCOMPUTERSCIENCEAND ENGINEERING DETAILEDREPORT ON A FIVE-DAY FACULTY DEVELOPMENT PROGRAM ON CLOUD COMPUTING

From 14th to 18ndJuly 2025

AimandObjective:

The primary objective of cloud computing is to deliver scalable and flexible IT services over the internet while reducing the cost and complexity associated with traditional computing methods. Cloud computing aims to provide on-demand access to computing resources such as servers, storage, databases, networking, software, and analytics with minimal management effort or service provider interaction.

Date ofEvent :From 14th to 18nd November 2024

Venue :Online mode

Faculty Coordinators:1.Mr. N.Thirumalarao 2. Mrs S .Gayathridevi 3.Mr. D.Himagiri

ResourcePerson :**Mr.Satish shettar**

Introduction

The Department of CSE organized a one-week Faculty Development Program (FDP) on **Cloud Computing** to enhance the knowledge and teaching skills of faculty members in the area of cloud technologies. This program aimed to familiarize participants with the fundamentals, emerging trends, platforms, and applications of cloud computing in both academic and industry settings.

Objectives of the FDP

- To provide insights into the architecture and models of cloud computing.
- To equip faculty with the knowledge of various cloud service models (IaaS, PaaS, SaaS).
- To explore practical implementations using cloud platforms such as AWS, Microsoft Azure, and Google Cloud.
- To discuss the latest trends such as serverless computing, containerization, and cloud security.
- To bridge the gap between academic curriculum and industry requirements.

Day1:

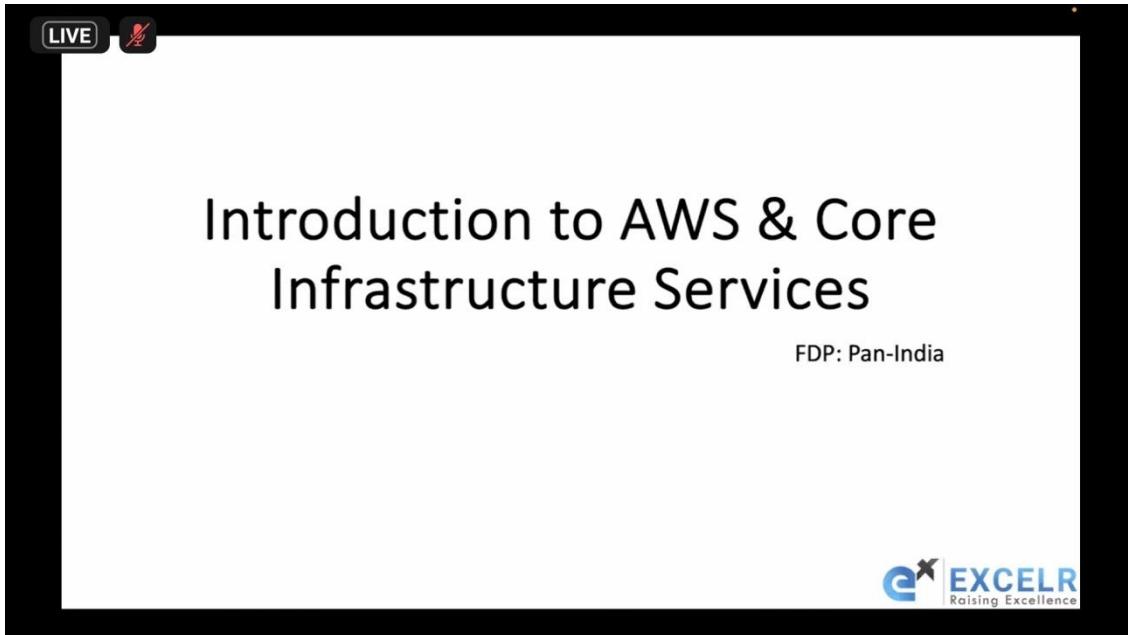


Fig-3: Mr.Satish shettar taking session on Introduktion to AWS and Core Infrastructure serviceson 14th july 2025

Amazon Web Services (AWS) is a comprehensive and widely adopted cloud platform offered by Amazon. Launched in 2006, AWS provides on-demand cloud computing services and APIs to individuals, businesses, and governments on a metered pay-as-you-go basis. It helps users avoid the cost and complexity of owning and maintaining physical servers by offering scalable, reliable, and secure cloud solutions.

AWS is used for a wide range of applications including web hosting, data storage, machine learning, IoT, big data processing, mobile application development, and enterprise IT modernization.

AWS offers a broad set of global cloud-based products, and among the most essential are its core infrastructure services, which can be categorized as follows:

Amazon EC2, Storage (Amazon S3 and EBS), Database services, Monitoring and Management.

Day2:

Amazon s3

Amazon S3 (Simple Storage Service) is a scalable object storage service provided by Amazon Web Services (AWS). It is designed to store and retrieve any amount of data, at any time, from anywhere on the web.

- Backup and restore
- Website hosting
- Data lakes and big data analytics

The image shows two side-by-side screenshots of the AWS S3 console. The left screenshot shows the 'Upload' interface for a bucket named 'demo-user-images-bucket-apr-25'. It displays a file selection dialog with a search bar and a table for managing files. The right screenshot shows the 'Objects' tab for the same bucket, which is currently empty. Both screenshots include the AWS navigation bar at the top.

The image shows a Zoom video call interface. In the foreground, a terminal window is open, displaying a list of AWS S3 log entries. The log entries include various upload and download operations for buckets like 'my-terraform-remote-state-20may', 'my-unique-s3-bucket-jtbt9', and 'mybucketjune2025'. The terminal window has a dark background and white text. The Zoom interface includes a 'Leave' button in the top right, a 'REC' button, and a 'LIVE' button. At the bottom, there are various video and audio control buttons: Unmute, Start video, Participants (997), Chat, Reactions, Share, Record, and AI Companion.

Fig-4: Mr. Satish shettar taking practical session on Amazon s3 on 15th July 2025

Day3:



Amazon RDS - Backup, Read Replicas & Multi-AZ

- **Automated Backups:** Daily snapshots and transaction logs
- **Read Replicas:** Scale read-heavy apps, offload reporting
- **Multi-AZ:** High availability with standby replica
- Encryption in transit and at rest supported
- **Enterprise Use Case:**
Healthcare platform uses Multi-AZ RDS for high availability and Read Replicas for reporting dashboards.
- **Example:**
Faculty runs classroom analytics queries on RDS Read Replica without affecting main database.



Amazon EFS – Managed Network File System

- Fully managed NFS-based file system
- Can be mounted on multiple EC2 instances simultaneously
- Grows and shrinks automatically
- Ideal for shared, scalable workloads
- **Enterprise Use Case:**
Engineering firm stores simulation files accessed by multiple analysis servers.
- **Example:**
Share lab files between different student EC2 instances during collaborative coding exercises.



```
Installing      : postgresql15-15.13-1.amzn2023.0.1.x86_64
Running scriptlet: postgresql15-15.13-1.amzn2023.0.1.x86_64
Verifying       : postgresql15-15.13-1.amzn2023.0.1.x86_64
Verifying       : postgresql15-private-libs-15.13-1.amzn2023.0.1.x86_64

Installed:
  postgresql15-15.13-1.amzn2023.0.1.x86_64          postgresql15-private-libs-15.13-1.amzn2023.0.1.x86_64

Complete!
[root@ip-172-31-23-89 ~]# psql
psql: error: connection to server on socket "/var/run/postgresql/.s.PGSQL.5432" failed: No such file or directory
  Is the server running locally and accepting connections on that socket?
[root@ip-172-31-23-89 ~]# psql -h database-1.cghkw62w538.us-east-1.rds.amazonaws.com -U postgres -d postgres -p 5432
Password for user postgres:
psql (15.13, server 17.4)
WARNING: psql major version 15, server major version 17.
         Some pgsql features might not work.
SSL connection (protocol: TLSv1.3, cipher: TLS_AES_256_GCM_SHA384, compression: off)
Type "help" for help.

postgres=> CREATE TABLESPACE myspace LOCATION 'pg_default';
ERROR:  syntax error at or near "TABLESPACE"
LINE 1: CREATE TABLESPACE myspace LOCATION 'pg_default';
          ^
postgres=> CREATE TABLESPACE myspace LOCATION 'pg_default';
ERROR:  the location specified must be an absolute path and must not be used by an existing tablespace.
postgres=> CREATE TABLESPACE mynewspace LOCATION 'pg_default';
ERROR:  Cannot create tablespace "mynewspace" in location "pg_default".
DETAIL:  The location specified must be an absolute path and must not be used by an existing tablespace.
postgres=> CREATE TABLESPACE mynewspace LOCATION '/rdsdbdata/customerspace';
CREATE TABLESPACE
postgres=> CREATE TABLE employees ;
```

i-0a4a44a71189a4422
PublicIPs: 54.208.12.104 PrivateIPs: 172.31.23.89

CloudShell Feedback © 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

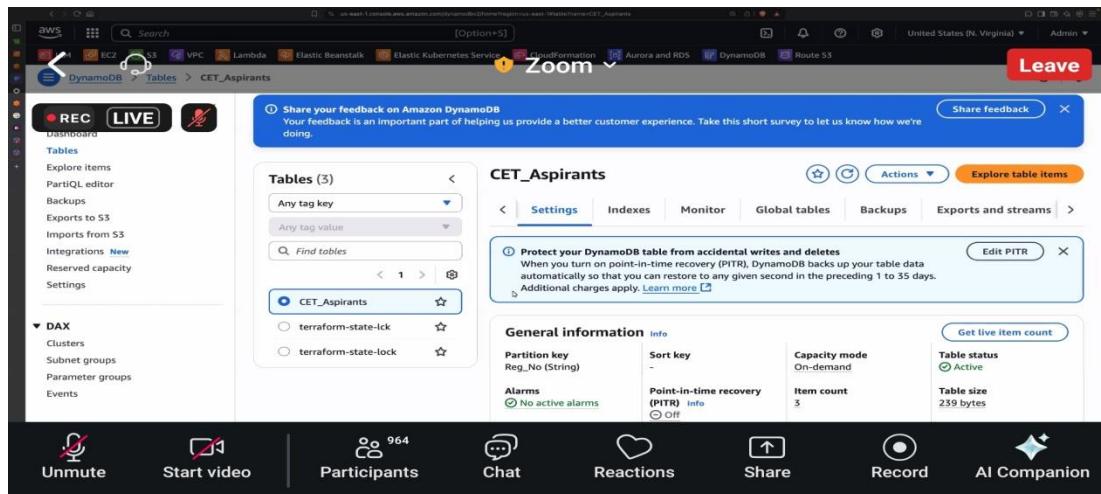


Fig-5: Mr. Satish shettar taking practical session on Amazon RDS,Backups on 16th July 2025

Day-4:Cloud Watch logs and Dashboards

CloudWatch Logs and Dashboards

- Collect and analyze **application logs** from EC2, Lambda, etc. ✓
- Create dashboards to visualize logs and metrics in one view
- Supports custom metrics and filtering
- Useful for debugging and performance tuning
- **Enterprise Use Case:**
A SaaS company visualizes application latency and error logs in real-time dashboards for support teams.
- **Example:**
Students can log web server access data and plot response time trends on a dashboard.



AMIs (Amazon Machine Images)

- **AMI** = Pre-configured OS + software package
- Launch EC2 instances from standard or custom AMIs
- **Types:**
 - AWS-provided,
 - Marketplace,
 - custom-created ✓
- Create custom AMIs for reusable student lab setups
- Speeds up provisioning of identical environments

Fig -6 Mr. satish setter is taking session on 17th july 2025

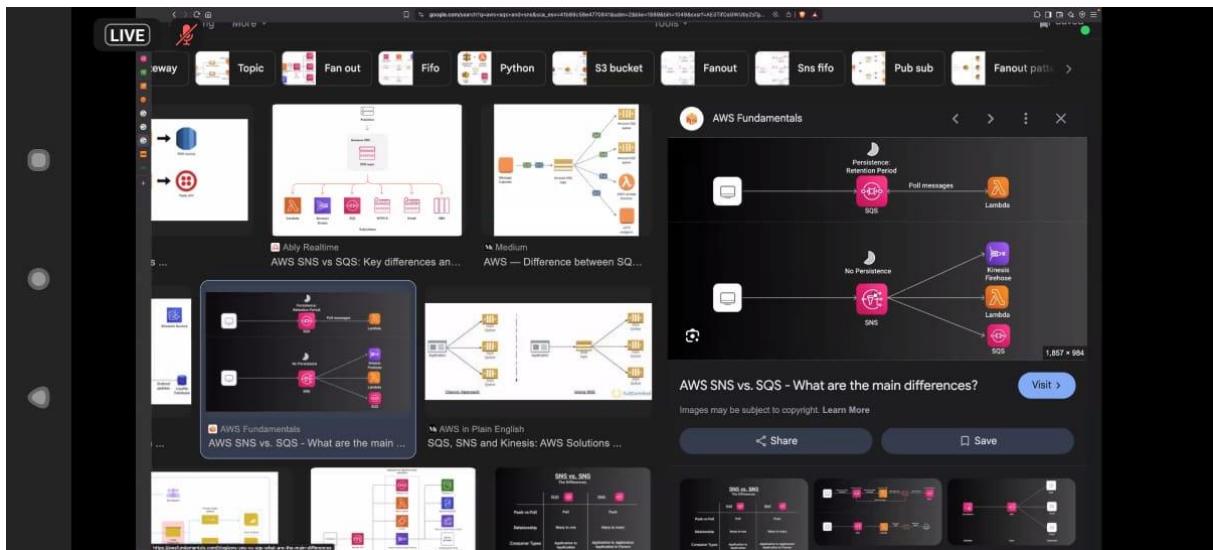


Fig -7 Mr. satish setter is taking practical session on 17th july 2025

Day-5: Introduction to AWS AI/ML Services

LIVE Introduction to AWS AI/ML Services

- AWS offers pre-trained AI services and custom ML model support
- Accessible via APIs – no ML expertise required for basic use
- Common categories: Image/Video, Text, Speech, Forecasting
- Easily integrates with other AWS services (e.g., S3, Lambda)
- **Enterprise Use Case:**
A customer service company uses AWS AI services for speech-to-text call analysis and sentiment detection.
- **Example:**
Students build a basic ML-powered web app using AWS Rekognition for image labeling.





Amazon Rekognition – Image and Video Analysis

- Recognizes objects, people, text, and scenes in images and videos
- Supports facial analysis, comparison, and moderation
- Integrates with S3, Lambda for event-driven processing
- Real-time and batch analysis supported
- **Enterprise Use Case:**
Law enforcement agencies use Rekognition to scan surveillance footage for known faces.
- **Example:**
Upload a photo to S3 → Trigger Rekognition → Display detected labels (e.g., "Car", "Tree", "Person").

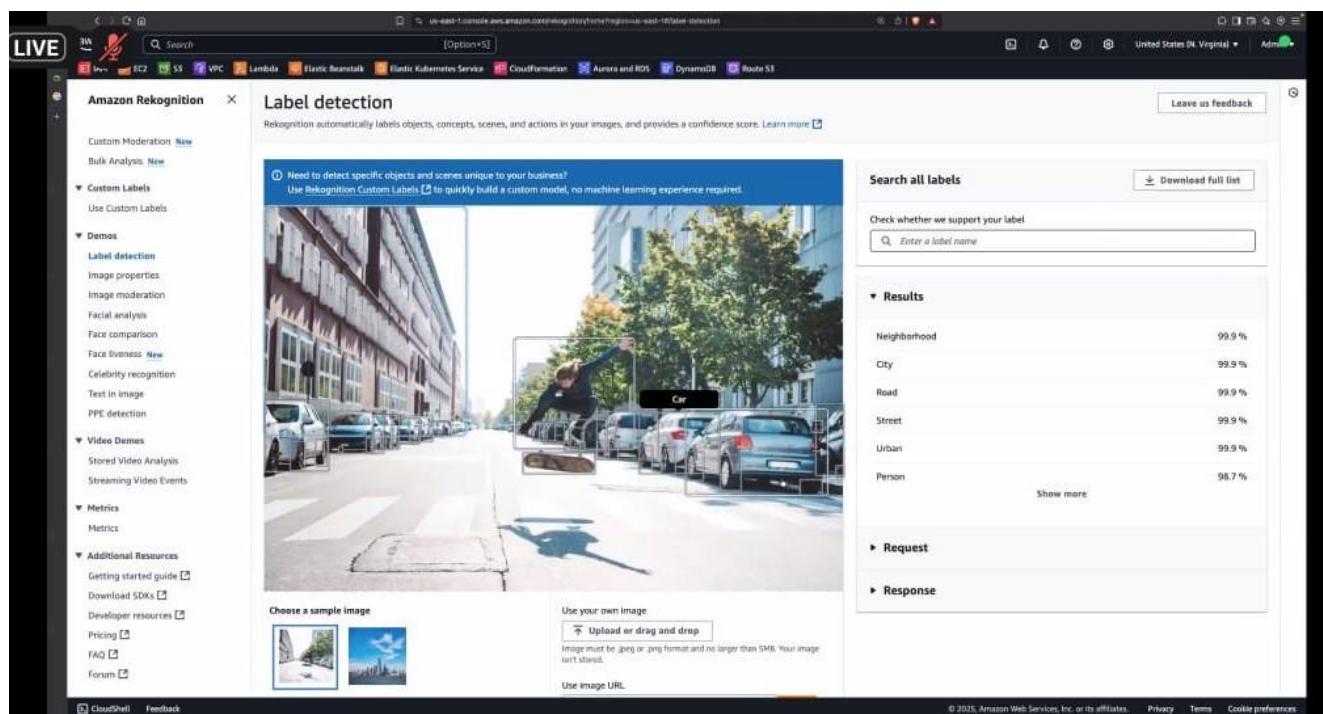
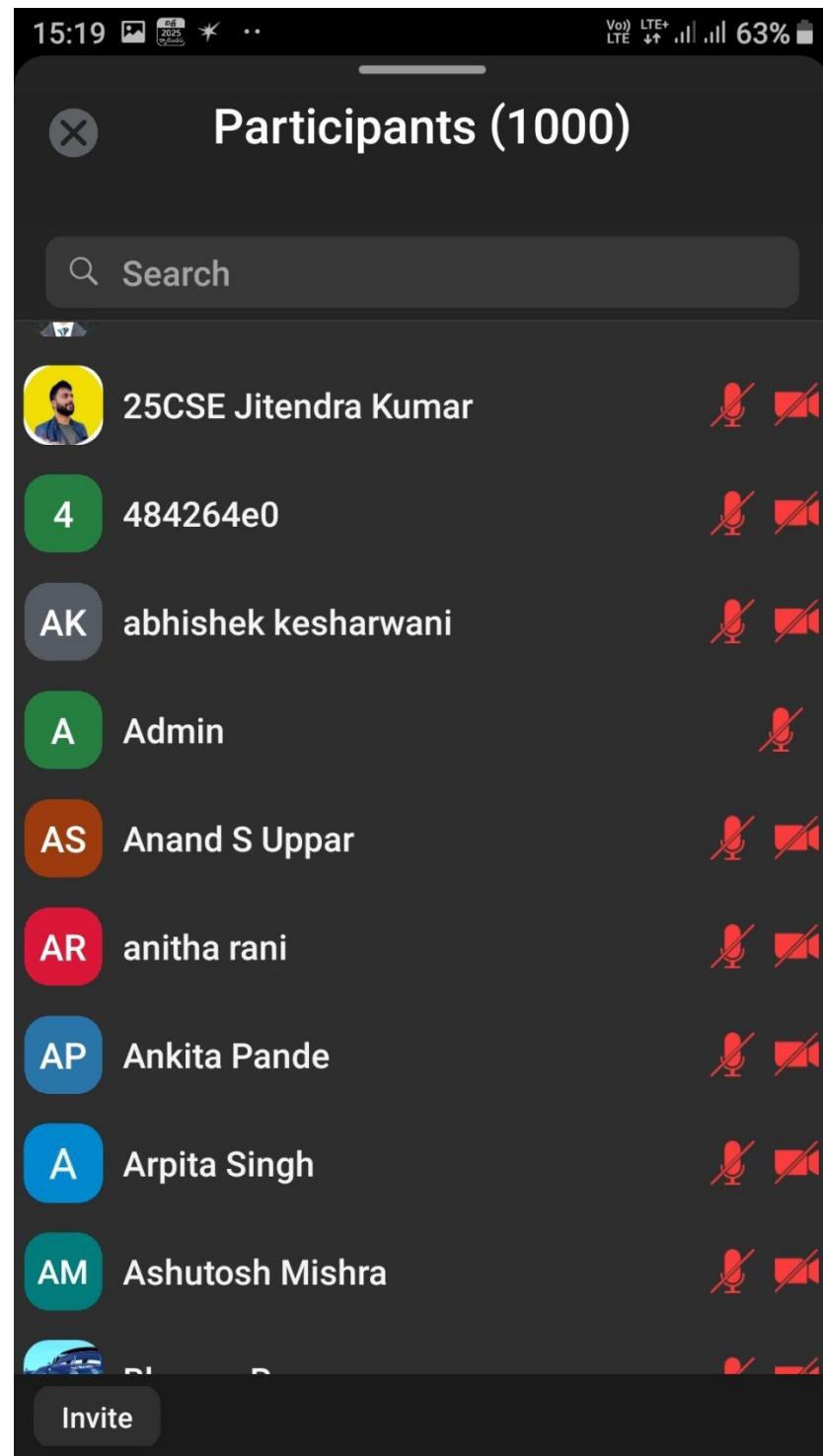


Fig -8 Mr. satish setter is taking practical session on 18th july 2025

OUT COMES:

- 1. Understanding of Cloud Computing Concepts**
 - o Learners gain foundational knowledge of cloud computing and its benefits, including scalability, reliability, and cost-effectiveness.
- 2. Familiarity with AWS Global Infrastructure**
 - o Students understand the AWS global architecture including Regions, Availability Zones (AZs), and Edge Locations.
- 3. Knowledge of Core AWS Services**
 - o Ability to describe and use key services such as:
 - **Amazon EC2** (Elastic Compute Cloud)
 - **Amazon S3** (Simple Storage Service)
 - **Amazon RDS** (Relational Database Service)
 - **AWS IAM** (Identity and Access Management)
- 4. Hands-on Skills with AWS Console**
 - o Learners become capable of launching, configuring, and managing AWS services through the AWS Management Console **and** CLI (Command Line Interface).
- 5. Security and Identity Best Practices**
- 6. Resource Deployment and Monitoring**
- 7. Ability to Design Simple Cloud Architectures**

Attendance



15:19 2025 VoLTE+ 63%

Participants (1000)

 25CSE Jitendra Kumar	<input type="button" value="Microphone icon"/> <input type="button" value="Video camera icon"/>
 484264e0	<input type="button" value="Microphone icon"/> <input type="button" value="Video camera icon"/>
 AK abhishek kesharwani	<input type="button" value="Microphone icon"/> <input type="button" value="Video camera icon"/>
 A Admin	<input type="button" value="Microphone icon"/>
 AS Anand S Uppar	<input type="button" value="Microphone icon"/> <input type="button" value="Video camera icon"/>
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 A Arpita Singh	<input type="button" value="Microphone icon"/> <input type="button" value="Video camera icon"/>
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15:20 2025 LTE+ 63%

Participants (999)

Search

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	madhuri kamsani	
M	Mallikarjun G	
V	Mamatha Kasu	
MG	Manish Giri	
MR	Milan Raiyani	
m	Mitkumar M Thakkar	
MV	Monisha V K	
MN	Mrs. Nilam Mandlik	
N	nikitanhalek	

Invite

Participants (999)

Search



25CSE Jitendra Kumar



AK

abhishek kesharwani



A

Admin



AS

Anand S Uppar



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anitha rani



AP

Ankita Pande



A

Arpita Singh



AM

Ashutosh Mishra



Bhuvan.R



CB

CH BHANU TEJ



Invite

15:22  62%

Participants (1000)

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CB	CH BHANU TEJ	 
C	charan	 
DP	Debasish Pradhan	 
K	deep reet	 
DD	Dr Dinesha L MITE	 
DP	Dr Pooja Singh	 
	Dr. Aseem Khan	 
DG	Dr. G.Parthiban	 
DK	Dr. Karuna Gilhare	 
S	Dr. Sujatha Iyer	 

 Invite

15:22 2025 ⚡ ..

VoLTE LTE+ 62% 

Participants (1000)

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 MR	Milan Raiyani	 
 M	Mitkumar M Thakkar	 
 MV	Monisha V K	 
 MN	Mrs. Nilam Mandlik	 
 N	nikitaphalak	 
 P	P H Zope	 
 P	Praddumn	 
	Prajwal Patil	 
 PS	PRAMOD S JADHAV	 
	prashant nikam	 

 Invite

15:19 20/25 LTE+ 63%

Participants (1000)

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TN	Thirumalarao n (me)	Microphone	Video	
	Sushmitha ExcelR (Host)	Cloud	Microphone	Video
GK	Girish Kumar B C,R... (Co-host)	Cloud	Microphone	Video
PK	Prof.Girish Kumar B C,... (Co-host)	Cloud	Microphone	Video
	Amar Shevate ExcelR (Co-host)	Cloud	Microphone	Video
D	Dr Padmaja Puliche... (Co-host)	Cloud	Microphone	Video
DS	Dr.G Sreenivasulu (Co-host)	Cloud	Microphone	Video
FS	Faculty- Satya (Co-host)	Cloud	Microphone	Video
NG	Nithya G (Co-host)	Cloud	Microphone	Video
SE	Sheetal ExcelR (Co-host)	Cloud	Microphone	Video

Invite

3:23

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Participants (587)

Search

X2	Xiaomi 2201117TI (me)		
SE	Sushmitha ExcelR (Host)		
FS	Faculty- Satya (Co-host)		
OR	02-05. Rajesh Babu Govada		
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	25CSE Jitendra Kumar		
C	270113 - CA Mohd Swaleh		
7	714371		
A	A.pavani		
A	Admin		