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A Report on Alumni Seminar

on

"A Study on Cloud Computing Technologies"

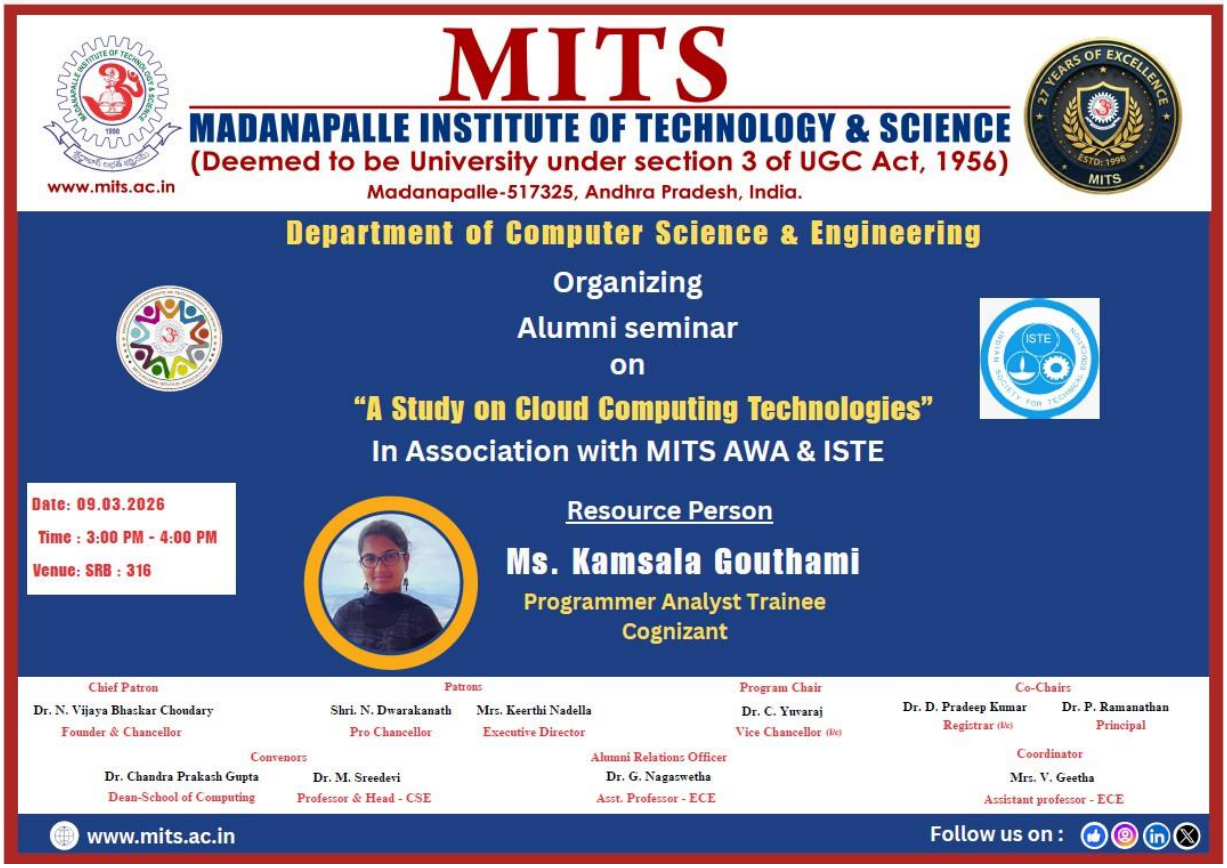
Organized by Department of Computer Science & Engineering

09th March 2026

Participants:

II Year B.Tech – Computer Science & Engineering Students – MITS

Resource Person: Ms. Kamsala Gouthami (2021-2025 Batch), Programmer Analyst Trainee in Cognizant



The Department of Computer Science & Engineering organized a Seminar on "**A Study on Cloud Computing Technologies**" for II B.Tech students.

The guest lecture inauguration began at 03:00 P.M. in SRB 316. The dignitaries were Dr. M. Sreedevi, HoD—CSE, Ms. K Gouthami (2021-2025 Batch) ,Programmer Analyst Trainee in Cognizant, Dr. G. Nagaswetha, Alumni Relationship Officer; and Mrs. V. Geetha, Department Alumni Coordinator.

The seminar was started with opening remarks by, Dr. M. Sreedevi who thanked Management for this great initiation of creating an opportunity to invite the Alumni members of the institute

and enabling them to interact with the students and enlightening them with the current developments in the corporate world. Dr. G. Nageswetha has shown pleasure and promised to conduct many more seminars in future for the benefit of the students.

Mrs. V. Geetha has introduced about the speaker and invited her to share her valuable experiences to the students. The number of students who participated in the lecture were around 50.

Cloud computing is a technology that enables on-demand access to shared computing resources such as servers, storage, databases, networking, software, and analytics through the internet.

Organizations today require scalable and flexible IT infrastructure. Traditional computing systems involve high costs for hardware, maintenance, and upgrades. Cloud computing solves these issues by offering pay-as-you-use services and remote accessibility.

Major cloud providers include companies such as Amazon, Microsoft, and Google, which provide powerful infrastructure and services to users worldwide.



Objectives of the Seminar:

The main objectives of the alumni seminar were:

To understand the concept of cloud computing.

- To study different cloud computing technologies and architectures.
- To analyze the service models of cloud computing.
- To explore deployment models used in cloud environments.
- To evaluate the benefits and challenges associated with cloud computing.

Cloud Computing Architecture

Cloud computing architecture consists of two major parts:

Front End

The front end refers to the client side of the system. It includes user devices such as computers, smartphones, and tablets along with applications used to access cloud services.

Back End

The back end includes servers, storage systems, databases, and management systems that run the cloud infrastructure.
Key components include:

- Virtualization
- Storage systems
- Networking infrastructure
- Management software
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Cloud Service Models

5.1 Infrastructure as a Service (IaaS)

IaaS provides virtualized computing resources over the internet. Users can rent servers, storage, and networking resources.

Example: Amazon EC2

5.2 Platform as a Service (PaaS)

PaaS provides a platform that allows developers to build, test, and deploy applications without managing underlying infrastructure.

Example: Google App Engine

5.3 Software as a Service (SaaS)

SaaS delivers software applications over the internet. Users can access applications through web browsers.

Example: Gmail, Microsoft Office 365

Challenges of Cloud Computing

1. Data security and privacy concerns
2. Dependence on internet connectivity
3. Vendor lock-in issues
4. Limited control over infrastructure
5. Compliance and legal issues

Applications of Cloud Computing

Cloud computing is widely used in:

- Education
- Healthcare
- Banking
- E-commerce
- Government services
- Software development

Future Trends in Cloud Computing

Future developments include:

- Edge computing
- Serverless architecture
- Multi-cloud strategies
- AI-powered cloud services
- Enhanced cloud security technologies

These innovations will further improve performance and efficiency.

Outcome of the Seminar

- Understanding the fundamental concepts of cloud computing.
- Identifying different cloud service models such as IaaS, PaaS, and SaaS.
- Understanding challenges related to security, privacy, and internet dependency.
- Learning about real-world applications of cloud computing across various industries.
- Identifying future trends that will shape the development of cloud technologies.

Vote of Thanks: **Mrs. V. Geetha** proposed a vote of thanks to the Resource person, HoD and AlumniRelations Officer for attending the function. She extended her thanksto the Principal and the Management for their support in conducting the seminar.