



# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)







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**A Report on**  
**A Guest Lecture on "Cloud Computing Essentials:  
A Gateway to Modern IT"**  
**Organized by**  
**Department of Computer Applications**  
**on 19.05.2025.**

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**  
(UGC-AUTONOMOUS INSTITUTION)  
Madanapalle - 517325, Annamayya Dist., Andhra Pradesh, India



**Department of Computer Applications**  
**Organizes**  
**A Guest Lecture on**  
**"Cloud Computing Essentials: A Gateway to Modern IT"**

**Resource Person**  
**Mr. Gokul Kumar**  
**CEO - Hysteresis Pvt Ltd, Bangalore**

**Date : 19-05-2025**  
**Time : 9:00 AM to 5:00 PM**  
**Target Audience : I MCA Students**

**Venue : Auditorium**

<b>Chief Patron</b> Dr. N. Vijaya Bhaskar Choudary Secretary & Correspondent	<b>Patron</b> Mrs. Keerthi Nadella Executive Director	<b>Program Chair</b> Dr. C. Yuvaraj Principal	<b>Convenor</b> Dr. N. Naveen Kumar HOD MCA	<b>Coordinator</b> Mr. Pala Hanok Asst. Prof. / MCA
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**Report Submitted by: Mr. Pala Hanok, Assistant Professor, Department of Computer Applications.**

**Resource Person: Mr. Gokul Kumar, CEO - Hysteresis Pvt Ltd, Bangalore**

**Report Received on 03.07.2025**

**Mode of Conduct: Offline**

**Target Audience: I MCA Students (339)**

## **Objective of the program:**

The objective of the guest lecture on Cloud Computing was to provide students with a comprehensive understanding of the core concepts, service models (IaaS, PaaS, SaaS), and deployment types (public, private, hybrid) in cloud computing. The session aimed to familiarize participants with leading cloud service providers such as AWS, Microsoft Azure, and Google Cloud Platform, along with their key offerings like virtual machines, storage solutions, and container technologies. By connecting theoretical knowledge with real-world applications, the program designed to bridge the gap between academic learning and industry practices. It also aimed to create awareness about the diverse career opportunities available in the cloud domain, encouraging students to pursue skill development and professional certifications. Overall, the lecture was designed to inspire students to explore and adapt to the evolving landscape of cloud technologies.

## **Introduction:**

The program on "**Cloud Computing Essentials: A Gateway to Modern IT**" was inaugurated on 19<sup>th</sup> May 2025 with an engaging welcome address delivered by Sandhya R & Manasa K, First-Year MCA Students. In their speech, students expressed gratitude to the Management, Principal, Vice Principals, Head – Department of Computer Applications for their unwavering support to organize the event. They also warmly welcomed the resource person **Mr. Gokul Kumar, CEO - Hysteresis Pvt Ltd, Bangalore.**

The program began with a formal welcome by **Dr. N. Naveen Kumar**, Head - Department of Computer Applications. In his address, he highlighted the importance of the program, warmly welcomed the resource person, and also thanked the Management, Principal, Vice Principals and faculty for the support extended to conduct the event smoothly.

## **Topics Discussed:**

### **1. Cloud Service Models:**

The lecture elaborated on the three core cloud service models:

- **Infrastructure as a Service (IaaS):**
  - Offers virtualized computing resources over the internet.
  - Examples: Amazon EC2, Microsoft Azure VMs.
  - Benefits: Scalable resources, pay-as-you-go pricing, high availability.

- **Platform as a Service (PaaS):**
  - Provides a platform allowing customers to develop, run, and manage applications.
  - Examples: Google App Engine, Azure App Services.
  - Benefits: Simplified development, integrated development environments, reduced operational overhead.
- **Software as a Service (SaaS):**
  - Delivers software applications over the internet, on-demand.
  - Examples: Google Workspace, Microsoft 365, Salesforce.
  - Benefits: No installations required, automatic updates, accessible from any device.



## 2. Cloud Deployment Models:

The types of cloud environments were introduced:

- **Public Cloud:**
  - Operated by third-party providers (e.g., AWS, Azure, GCP).
  - Shared resources.
  - Suitable for low-security needs and scalability.



- **Private Cloud:**

- Used exclusively by a single organization.
- Provides greater control and security.
- Can be on-premises or hosted by a third party.

- **Hybrid Cloud:**

- Combines public and private clouds.
- Offers flexibility and workload portability.
- Common in large enterprises for balancing security and performance.

### 3. Cloud Providers Overview:

The session highlighted major cloud providers and their key offerings:

- **Amazon Web Services (AWS):**

- Most widely adopted cloud platform.
- Offers services like EC2 (compute), S3 (storage), RDS (databases), Lambda (serverless).

- **Microsoft Azure:**

- Integrated with Microsoft products.
- Offers services like Azure VM, Blob Storage, Azure Functions, and Azure SQL.

- **Google Cloud Platform (GCP):**

- Known for data and AI services.
- Offers services like Google Compute Engine, Cloud Storage, BigQuery.



#### **4. Cloud Services Demonstrated:**

Participants were introduced to hands-on and theoretical knowledge of:

- **Virtual Machines and Containers:**
  - Amazon EC2 and Azure Virtual Machines.
  - Introduction to Docker and containerization concepts.
- **Storage Solutions:**
  - Amazon S3 buckets, Azure Blob Storage.
  - Introduction to Azure Data Lake for big data storage and analytics.

#### **Career Opportunities in Cloud Computing:**

The guest speaker outlined a range of cloud-centric career paths:

- **Cloud Architect** – Designs cloud solutions and architectures.
- **Cloud Administrator** – Manages cloud environments and resource optimization.
- **Cloud Support Engineer** – Troubleshoots and supports cloud services.
- **DevOps Engineer** – Automates and integrates cloud deployments.
- **Data Engineer** – Builds data pipelines using cloud services.

Each role was discussed in terms of required skill sets, certifications (e.g., AWS Certified Solutions Architect, Azure Fundamentals), and real-world responsibilities.

#### **Student Feedback:**

The session received a highly positive response from the students, who appreciated the clarity of the content, the relevance of the examples, and the insights shared by the speaker Mr. Gokul Kumar. Many students expressed interest in exploring in cloud technologies.



### **Vote of thanks:**

The program concluded with a heartfelt vote of thanks delivered by the coordinator, Mr. Pala Hanok, who acknowledged the resource person for his valuable contribution, appreciated the active participation of students, and expressed gratitude to the management, Principal, Vice Principals, Head of the Computer Applications Department for their support to organize the event successfully.

### **Program Outcome:**

The guest lecture on Cloud Computing enhanced the students' understanding of fundamental cloud concepts, including key service models (IaaS, PaaS, SaaS) and deployment types (public, private, hybrid). Students gained valuable insights into major cloud service providers such as AWS, Microsoft Azure, and Google Cloud Platform, along with exposure to practical applications like virtual machines, cloud storage, and container technologies. The session effectively connected academic concepts with industry-relevant practices, empowering students to appreciate the practical relevance of cloud computing in today's digital landscape. The lecture motivated students to explore career paths in the cloud domain by emphasizing the importance of upskilling and obtaining professional certifications in the domain of cloud.

With regards,

**Dr. C. Kamal Basha, M.E., Ph.D.**

Vice Principal - Administration,

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