Semester-2

SELF DRIVEN ACTIVITY

Quarter 3

Activity Name	**AWS Cloud Computing – The Future Technology**
Date of Activity	**11th March 2025**
Mode of Conduct	**Physical**
Time	09.30 am to 04.00 pm
Mandatory/Elective	Mandatory
Participants *(Online/offline)*	• No. Of Students: 120. • Staffs from CSE Department.
Resource Person/s	**Name**: Mr. Manikanta Prasad J **Designation**: Assistant Professor, Department of CSE **Institution/Organization**: AIT, Chikkamagaluru
Description	**Objective of the Event** The primary objective of the workshop was to provide students with a deep understanding of Cloud Computing technologies and their impact on the IT industry. **Key Points Covered** • To introduce participants to the fundamentals of cloud computing and its importance in the modern digital era. • To explore various cloud service models such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS). • To provide hands-on experience with Amazon Web Services (AWS).

- To discuss Career opportunities in cloud computing.
- Latest industry trends and advancements in cloud technologies.

Introduction

The AWS Cloud Computing Workshop was organized on 11th March 2025 at Rajeev Institute of Technology (RIT), Hassan. This workshop was conducted by the Department of Computer Science and Engineering under RIT Institution's Innovation Council (IIC) in association with RIT Internal Quality Assurance Cell (IQAC). The primary objective was to educate participants on the latest advancements in cloud computing, focusing on Amazon Web Services (AWS). The event was attended by students, faculty members, and industry professionals.

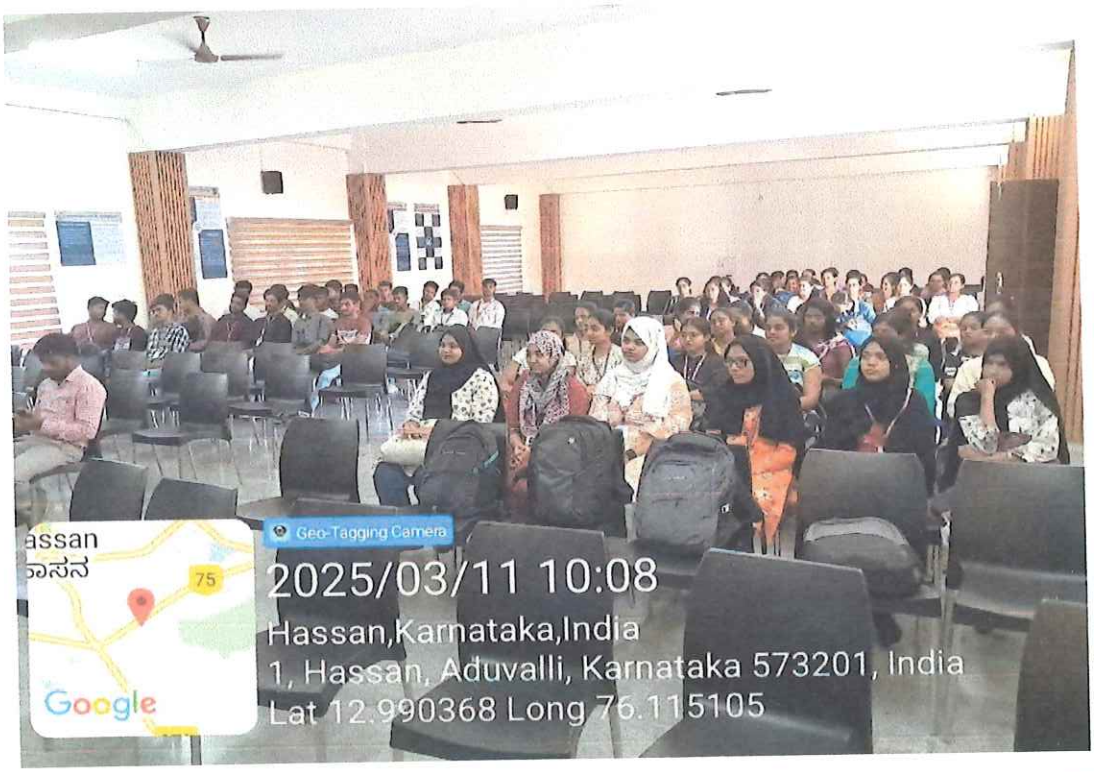
About Cloud Computing

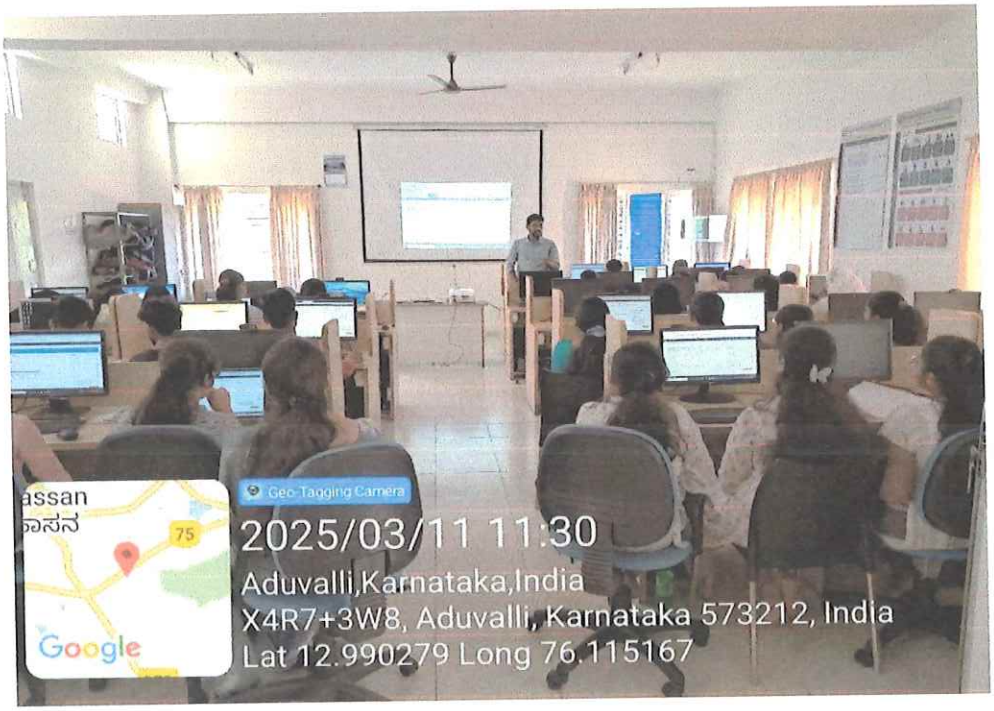
Cloud computing is a modern technology that allows users to access and store data, applications, and computing resources over the internet instead of relying on local computers or physical servers. It enables organizations and individuals to use computing power on demand, making it highly flexible, scalable, and cost-effective. One of the key features of cloud computing is its ability to provide resources such as storage, processing power, and networking without requiring users to manage the underlying infrastructure. This technology is categorized into three main service models: IaaS, which provides virtual machines, storage, and networking; PaaS, which offers a framework for developing and deploying applications; and SaaS, where fully functional applications like email, storage, and collaboration tools are accessed online without installation.

Cloud computing can be deployed in different models depending on the needs of the organization. Public clouds are shared computing environments managed by third-party providers such as Amazon Web

	Services (AWS), Microsoft Azure, and Google Cloud, offering services to multiple users. Private clouds, on the other hand, are dedicated to a single organization, ensuring higher security and control. Another model, community cloud, is designed for organizations with shared concerns, such as government agencies or financial institutions. The advantages of cloud computing are vast, making it an essential part of modern businesses and technology. It reduces costs by eliminating the need for expensive hardware and maintenance while also providing scalability, allowing companies to increase or decrease their resource usage as needed. Cloud platforms enable remote work and collaboration, as users can access files and applications from anywhere with an internet connection. Security is also a priority, with leading cloud providers implementing advanced security measures, data encryption, and regular backups to prevent data loss. Additionally, cloud computing ensures software and system updates are handled automatically, reducing the workload on IT teams.
Program Outcome	• The workshop successfully provided participants with a strong foundational knowledge of Cloud Computing. • Students gained insights into industry-relevant cloud technologies, helping them prepare for cloud certifications such as AWS Certified Solutions Architect. • The hands-on session enabled attendees to explore AWS services and understand practical applications of cloud computing. • Participants became aware of career opportunities in cloud computing and how they can up skill to stay relevant in the IT industry. • The event encouraged students to take up cloud-based projects and research in future academic endeavours.

Photographs of the Event





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HOD	IIC Vice President	IIC President	Principal

Principal
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