K.S. INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

REPORT ON

Hands on workshop

Amazon Web Services (AWS)

Semester	**4th & 6th Semester**
Event Type	**Hands on workshop**
Event Name	**Amazon Web Services**
Date/Duration	**11th March 2025**
Associated Professional Bodies	**Mr. Shashikanth H Corporate Trainer and AWS Certified Cloud Practitioner**
No. of Students	**138**
Venue	**Seminar Hall NB204**
Online link/Offline	**Offline**

Introduction:

Overview of Amazon Web Services:

Amazon Web Services(AWS) is a cloud computing platform that provides scalable and cost effective infrastructure solutions. It offers a wide range of services, including computing power(EC2), storage (S3), databases (RDS), and machine leanring (SageMaker). AWS enables businesses to build, deploy, and manage applications efficiently with high availability and security.

Objective of the Session:

The objective of the one-day AWS workshop was to provide participants with a foundational understanding of cloud computing and AWS services. The session began with an overview of cloud computing, followed by hands-on experience in creating and configuring EC2 instances within a Virtual Private Cloud (VPC). Attendees learned to set up subnets, internet gateways, and route tables, gradually progressing from guided exercises to independent implementation. The workshop also covered Identity and Access Management (IAM), where participants created users with specific permissions and tested access controls. By the end of the session, attendees gained practical exposure to AWS infrastructure, networking, and security concepts. The workshop concluded with a review of best practices and cleanup of created resources.

Topics Covered:

Introduction to Cloud Computing - Understanding the fundamentals of cloud technology and its benefits.

Virtual Private Cloud (VPC) - Learning about VPCs, their configuration, and network components.

Amazon EC2 Instances - Creating, configuring, launching, and managing EC2 virtual machines.

Networking in AWS - Setting up subnets, internet gateways, and route tables within a VPC.

Identity and Access Management (IAM) - Creating users, assigning permissions, and managing access control in AWS

Glimpse of the Event

CO/PO Mapping:

CO/PO &PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AWS Workshop	3	2	-	-	3	-	-	-	2	-	-	2	3	2	3
Average	3	2	-	-	3	-	-	-	2	-	-	2	3	2	3

PO1: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization to the solution of complex engineering problems.
PO2: Problem Analysis: Identify, formulate, research literature, and analyse engineering problems to arrive at substantiated conclusions using first principles of mathematics, natural and engineering sciences.
PO4: Conduct Investigations: Use research-based knowledge including design experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5: Modern Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitation.
PO9: Individual and team work: Communicate effectively with the engineerijng community and with society at large. Be able to comprehend and write effective reports documentation. Make effective presentations, and give and receive clear instructions.
PO12: Lifelong learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Co- Ordinator Sign **HOD AI&ML** **Principal**