



AD-301	Activity Report	Academic Year: 2026-27
Rev-00		Semester: V

DEPARTMENT OF IT ENGINEERING

Particulars	Description
Activity	Workshop on Cloud Computing
Activity level	Department
Title	Cloud Computing
Speaker / Resource Person Name Designation Organization/Institute Name and address	Ms . Priyanka Pawar (Technical Trainer) Ms. Mrudula Veer (Technical Trainer) CADD Center , Nashik
Organized by	IT Department
Venue	Lab No. 321
Date & Time	16/09/2026 to 20/09/2026
Objectives of the activity	☐ To introduce virtualization, containerization, and cloud service models through hands-on implementation. ☐ To teach deployment and management of cloud-native web applications using modern orchestration tools like Docker and Kubernetes. ☐ To provide practical experience in developing scalable cloud-enabled solutions for real-world applications
Outcomes of activity	☐ Students will be able to create, configure, and manage virtual machines while analyzing resource utilization efficiency. ☐ Students will gain hands-on capability to build, containerize, and deploy Python-based applications using Docker and Kubernetes. ☐ Students will successfully design and deploy end-to-end cloud-based AI/ML applications like sentiment analysis and prediction models.
Targeted participants	Third Year (TE) IT Students
Total no. of participants, Participation %	Total no. of participants :- 22 Participation :- 75%
Content of the activity	☐ Day 1: Overview of AWS/Azure Cloud Architectures, Server Virtualization, and Resource Management. ☐ Day 2: Monitoring VM performance (CPU, Memory, Network) and cross-VM File Transfer protocols. ☐ Day 3: Linux Web Server Deployment and Python Application Containerization using Docker. ☐ Day 4: Kubernetes Architecture, Cluster setups, Pods, Deployments, and Auto-scaling. ☐ Day 5: Capstone Projects: Deploying Cloud-based Sentiment

	Analysis and Student Placement Prediction AI/ML applications.
Relevance to POs	PO1 (Engineering Knowledge), PO2 (Problem Analysis), PO3 (Design/Development of Solutions), PO5 (Modern Tool Usage), PO9 (Individual and Team Work), PO12 (Life-long Learning)
Relevance to PSOs	PSO1 (Algorithm Implementation), PSO2 (Software & Cloud System Integration)
Methodology used	☐ PowerPoint presentation ☐ Presentation with notes and comments ☐ Discussion ☐ Live Demonstration and Hands-on Laboratory Conduction
Brief Description of the Activity	The IT Department organized a 5-day hands-on Workshop on Cloud Computing from September 16 to 20, 2026, aimed at bridging theoretical cloud concepts with practical industry applications. The workshop focused on virtual machine management, resource allocation monitoring, containerization, and orchestration platforms essential for modern deployment. Over five intensive lab sessions, students learned how to create VMs, configure Linux web servers, containerize Python applications using Docker, and manage multi-replica pods via Kubernetes. Additionally, participants developed and deployed practical models on cloud environments, including a social media sentiment analysis platform and a student placement prediction engine. The initiative provided high exposure to essential modern software tools such as Docker Desktop, Minikube, Oracle VirtualBox, and Streamlit in accordance with the SPPU TE IT syllabus. Overall, the activity successfully enhanced the technical competence, problem-solving skills, and deployment readiness of the participating students.

Geo- tag photos of the Activity :



