

Nirma University
School of Technology
Computer Science and Engineering Department
STTP on Wheels: Modern Cloud Engineering and Automation

STTP: Course Outcome, Syllabus and Assessment methodology

A. After successful completion of the programme, participants will be able to

1. To enable participants to understand industry-relevant cloud-based solutions using contemporary technologies.
2. To provide hands-on exposure to modern cloud engineering concepts through industry visits and expert sessions.
3. To familiarize participants with automation and DevOps tools used in real-world software development and deployment.
4. To bridge the gap between academia and industry practices by understanding current practice from leading IT companies.

B. Following is the syllabus outline:

Cloud computing fundamentals (IaaS, PaaS, SaaS), cloud platforms overview (AWS, Azure, GCP), containerization using Docker, container orchestration with Kubernetes, DevOps and CI/CD tools (Jenkins, GitHub Actions), Infrastructure as Code (Terraform/Ansible), microservices and serverless basics, monitoring and cloud security practices, industry visits and expert sessions on real-world applications.

C. Evaluation methodology to be employed for STTP is as under:

Sr. No.	Evaluation Criteria for Participants	Count	Percentage
1.	Formative Assessment – Presentation / Assignment submission	1	100%

D. Criterion to be employed for allocation of grades to participants is as under:

Marks	Grade
91 to 100	A
81 to 90	B
71 to 80	C
≤ 70	Not successfully completed