Course: IT627 – Cloud Computing

Main Topics To Be Covered In The Course

1. Introduction to Cloud Computing
2. Fundamental Concepts
3. Ensuring High Availability & Disaster Recovery
4. SQL and No SQL Databases
5. Identity and Security in Cloud
6. Containers
7. Serverless Applications
8. Cloud and IoT
9. Microservice based architectures

Mechanism / Modalities:

Lectures:

**Plan A:** Conduct online live lectures. All students are required to be on mute. Allow questions raising during lecture by un-muting temporarily. Attending lecture on phone not allowed. Attendance is not a criterion. Record the lecture and share it through Google Classroom (GC).

**Plan B:** Move to this plan if due to connectivity issues, live lecture is not working for most students, or if students find this method more effective. Modality: Record lecture offline and upload. Share the lecture video with students on GC at least a day before the lecture day. During lecture hour, discuss doubts, examples and queries of the students.

Labs:

Decide two hours session in a week to be conducted as lab. Assignments will be provided and TAs will be monitoring and helping the students with the lab. Faculty will be available when required.

Evaluation Scheme:

**Mid-sem exam** – 30%, **Lab Assignments** – 30%, **Final Exam** – 40%