IT413 No SQL Databases (winter ’2021)

Course Placement: B.Tech. (ICT), Technical Elective

Course format: 3 Lecture hours and 2 Lab hours.

Course content: The course teaches data models such as key-value, columnar, and graph databases, that have become important in the era of big data. This course discusses Models, Programming Abstractions, and insight into selected techniques for implementing such data models. Selected implementations are also discussed.

Labs and Assignments:

There would be series of lab exercises aimed to practice concepts learned in theory.

A term paper: Students will be required to study recent research works on a topic under the umbrella of No SQL databases and produce a term paper.

Texts:


Evaluation plan:

1. One In Semester examinations: 20%
2. Term Paper: 30%
3. Lab Evaluation: 20%
4. End Semester examination: 30%

Course Outcomes:

At the end of the course students should have strong insight into various data models that are used for processing large scale databases.