



**CS 481**

**DATA MINING LAB**

1. Implement the following Multidimensional Data Models

- 1) Star Schema
- 2) Snowflake Schema
- 3) Fact Constellation

2. Implement Apriori algorithm to generate frequent Item Sets

3. Implement the following clustering algorithms

- 1) K-means
- 2) K-medoids

4. Implement the following classification algorithms

- 1) Decision Tree Induction
- 2) KNN

5. Perform data Preprocessing using WEKA

6. Perform Discretization of data using WEKA

7. Classification algorithms using WEKA

8. Apriori algorithm using WEKA

9. Perform data transformations using an ETL Tool

10. A small case study involving all stages of KDD. (Datasets are available online like UCI Repository etc.)