# Laboratory 2

Title of the Laboratory Exercise: Requirement analysis and data modelling

1. Introduction and Purpose of Experiment

The requirements analysis phase produce both data requirements and functional requirements. The data requirements are used as a source of database design and should be specified as detailed and complete form as possible. In data modelling, the designers first create a conceptual model of how data items relate to each other. By doing this lab, students will be able to perform data modelling of the application.

1. Aim and Objectives

Aim

* To analyse the given application and create a data model

Objectives

At the end of this lab, the student will be able to

* Identify functional and data requirements from problem statement
* Create a data model from the data requirements

1. Experimental Procedure
   * Read the problem statement and identify requirements
   * Perform data modelling
   * Document the requirements and ER diagram
2. Question

Students have to choose one of the following problem statements and develop the software solution. The Course leader is the customer. Contact the Course leader for any clarifications.

1. Library management system
2. Hospital management system
3. Employee management system

Perform the following based on the problem statement you have chosen

1. Analyse the given application and list the functional and data requirements
2. Perform data modelling based on the identified data requirements
3. Calculations/Computations/Algorithms
4. Presentation of Results
5. Conclusions
6. Comments

1. Limitations of Experiments

2. Limitations of Results

3. Learning happened

4. Recommendations