

# *MSIT First Year Syllabus*

## *Mini Semester III:*

## **Database Management Systems**

*Course ID* : IT1342

*Duration* : 4 Weeks

*Credits* : 4

### ***DESCRIPTION:***

The objective of the course is to teach students the foundations of Database Technologies in a Story centered fashion. In this course, students will learn to design a database, normalize it by eliminating the redundancies, Querying, Improving the database performance by Indexing and Hashing and finally learning to optimize the queries.

### ***Syllabus:***

History and Structure of databases , How to design a database , How to convert the design into the appropriate tables Handling Keys appropriately , Enforcing Integrity Constraints to keep the database consistent , Normalizing the tables to eliminate redundancies , Querying relational data ,Optimizing and processing the queries , Storage Strategies for easy retrieval of data , Triggers, Procedures and Cursors are the major components here.

### ***Project :***

**Database Design for Fly Safe Airways System**