Lectures for the course: Database Management Systems (CS43002)

Week 1

Lecture 1 – 03/01/2018
- Introduction to the course
- Evaluation Guidelines

Lecture 2 – 04/01/2018
- Introduction to database systems

Week 2

Lecture 3 – 10/01/2018
- Introduction to database systems

Lecture 4 – 11/01/2018
- Introduction to database systems
- ER Diagram
- Generating tables from ER diagram

Lectures 5+6 – 12/01/2018
- Generating tables from ER diagram
- ER model design issues

Week 3

Lecture 7 – 17/01/2018
- Extended ER features
- Alternative notations

Lecture 8 – 18/01/2018
- Relational model
- Relational Algebra
- Basic SQL
Lectures 9 – 19/01/2018

- Basic SQL
- DDL
- Basic SQL query structure
- Additional basic operations like join

**Week 4**

Lecture 10 – 24/01/2018

- Basic SQL
- Aggregate functions
- Nested Subqueries
- Insert, Delete, Update

Lecture 11 – 25/01/2018

- Intermediate SQL
- Outer joins
- Views

**Week 5**

Lecture 10 – 31/01/2018

- Intermediate SQL
- Constraints
- Check, Not null, Referential integrity
- Data types
- Authorization