

MICHAEL AND CECILIA IBRU UNIVERSITY

CSC 309: DATA MANAGEMENT 1

FIRST SEMESTER

2017/2018

By

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DATA MANAGEMENT

This course is an introduction to a course in Database management systems. It explains data management concepts as it relates to a real world concepts. It defines a database, data management system models and tools. It also exposes the students to query languages.

Course Aim and Objectives

The aim of this course is to introduce the basic concepts of database management using data management tools. The objectives of the course therefore are:

1. Explain database and databases management systems.
2. Explain the functions and characteristics a database management system.
3. Identify and explain the different database models and Architecture,
4. Study the use of Structural query language for different purposes in the relational database model.
5. Expose students to data management software like Microsoft Access and MySql server.

Course content

- Introduction to database and Data management systems
- Components of a Database system
- Functions of a database management system
- Characteristics of a database
- Database users
- Database architecture
- Data independence
- Use of Database query language.

Lecture arrangement

This course will be taken for at least three hours in week for an academic semester. However there could be fixed classes for a course topic that has not been adequately treated. There will also be practical classes which will be for two hours in a week for the entire semester.

Mode of Assessment

Students would be assessed based on the following criteria:

- 75 percent attendance of lectures.
- Class quizzes the end of every course topic.
- Take home assignment.
- Practical classes.
- Group and personal projects.
- Writing of tests and examination is compulsory

Class ethics

The follow are the class ethics for effective learning:

- The use of phones is prohibited in the prevent distractions.
- There shall not be any form of random movement during lectures.
- Any student who enters the class after the attendance has been taken is assumed to not have attended the class.
- Students who are late to classes should enter quietly.

Reference materials

Textbooks

Elmasri, R. & Navathe, S. B. Fundamentals of Database Systems, (2011) 6th Edition, Addison-Wesley, New York.

Groh M. R et al, Access 2007 Bible, (2017), Wiley Publishing Inc., Indiana.

