



Introduction to Database Systems

Course Introduction

Course information

- ▶ Course code: **C02013**
- ▶ Credits: **4**
- ▶ Course site: BKel
- ▶ Lecturer: Nguyen Thi Ai Thao
 - ▶ Email: thaonguyen@hcmut.edu.vn

Assessments

- ▶ **No** midterm exam
- ▶ Assignments: **30%**
 - ▶ Assignment 1: DB Design, ER/EER Mapping
 - ▶ Assignment 2: DB Schema Implementation, Triggers, Stored Procedures/Functions , Applications
- ▶ Presentation: **20%**
 - ▶ Presentation
 - ▶ Quiz + In-class activities
 - ▶ Details (grouping, topics, instruction): on Course site
- ▶ Final exam: **50%**
 - ▶ Open test
 - ▶ **Multiple-choice**

Course Contents

Chapter 1 (w1)	Database System Concepts & Architecture
Chapter 2 (w2)	Entity-Relationship Model
Chapter 3 (w3)	Enhanced Entity-Relationship Model
Chapter 4 (w4,5)	Relational Model
Chapter 5 (w6,7,8)	Structured Query Language (SQL)
Chapter 6 (w9,10)	Database Design Theory & Methodology
Chapter 7 (w11)	Data Storage, Indexing & Physical Design
Chapter 8 (w12)	Database Security
Chapter 9 (w13,14)	Emerging DB Technologies & Applications
Revision (w15)	Revision

References



- [1] R. Elmasri & S.B. Navathe (2016). ***Fundamentals of Database Systems***, 7th Edition, Addison-Wesley.
- [2] N. Shah (2005). ***Database Systems Using Oracle – A Simplified Guide to SQL and PL/SQL***, 2nd Edition, Prentice Hall.
- [3] T. Connolly & C. Begg (2005). ***Database Systems – A Practical Approach to Design, Implementation, and Management***, 4th Edition, Addison-Wesley.

