國立台灣科技大學 114學年 第2學期　課程大綱

Spring 2026 NTUST Course Outline

授課教師：吳怡樂

Instructor:Yi-Leh Wu

課程名稱：資料庫系統

Course Title：Database Systems

2026/11/3

課程代號： CS3010301 Course Code 學分數： 3 Credits	必選修：必修/半學年 Required/Electve:Required/Half Yr. 先修課程： Prerequisites
節次教室： F2(TR-313) T8(TR-313) T9(TR-313) Time/Location	
專業核心能力： Core Professional Competencies	
課程網址： Course Website	faculty.csie.ntust.edu.tw/~ywu/cs3010301/
課程宗旨： Course Objectives	This course is about relational theory, logical and physical design of databases, and database performance optimization. In the first part of the course we will cover various data models and query languages, mainly focusing on the relational model and languages. In the second part of the course we will discuss some advanced features of SQL, and the issues and techniques related to improving database performance. The database systems technology is considered as one of the most important core technologies in Industry 4.0.
課程大綱： Outline of Lectures	n/a
授課方式： Method of Instruction	講授 Lecture：100% 分組討論 Group discussion：0% 案例研討 Case study：0% 操做練習 Practical exercises：0% 講授 Lecture：%
教科書： Textbooks	Fundamentals of Database Systems (7th edition, ISBN-10: 1-292-09761-2), by Ramez Elmasri and Shamkant B. Navathe
參考書目： References	n/a
修課須知： Notice	n/a
評量方式： Grading	Homework 40% Midterm 30% Final 30%
備註說明： Notes	n/a