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：資料庫設計

Course Title：Data Base Design

2026/11/3

課程代號： CS5016701 Course Code 學分數： 3 Credits	必選修：選修/半學年 Required/Electve:Elective/Half Yr. 先修課程： Prerequisites
節次教室： Time/Location	R7(TR-513) R8(TR-513) R9(TR-513)
專業核心能力： Core Professional Competencies	
課程網址： Course Website	https://faculty.csie.ntust.edu.tw/~ywu/cs5016701/
課程宗旨： Course Objectives	簡介、檔案結構實體、資料層次與DBMS架構、關連式資料庫、層次式資料庫、網路式資料庫 The course pre-requisite is CS 3010301 or equivalent background understandings in database systems. We will study a collection of published materials; some of these are classics papers of relational databases in early days. Others are more recent articles that cover a wide spectrum of research areas in database systems; e.g., OLAP, XML, datacubes, main memory databases, high dimensional indexing, etc.
課程大綱： Outline of Lectures	簡介、檔案結構實體、資料層次與DBMS架構、關連式資料庫、層次式資料庫、網路式資料庫 This course covers on-going trends in database systems, focusing on illustrating new research directions and current problems. The course pre-requisite is CS 3010301 or equivalent background understandings in database systems. We will study a collection of papers, some of these are classics papers of relational databases in early days. Others are more recent papers that cover a wide spectrum of research areas in database systems.
授課方式： Method of Instruction	講授 Lecture：30% 分組討論 Group discussion：20% 案例研討 Case study：30% 操做練習 Practical exercises：20% 講授 Lecture：%
教科書： Textbooks	(optional) Fundamentals of Database Systems, sixth edition, by Elmasri and Navathe.
參考書目： References	Fundamentals of Database Systems, sixth edition, by Elmasri and Navathe.
修課須知： Notice	n/a
評量方式： Grading	

	Paper presentation in class: 20% Homework 20% Midterm Exam 20% Final report / proposal presentation: 20% / 10% Class participation: 10%
備註說明： Notes	n/a