

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：郭人介

Instructor:Ren-Jieh Kuo

課程名稱：資料探勘應用

Course Title : Data Mining Applications

2026/5/6

課程代號：IM3117399 Course Code	必選修：必修/半學年 Required/Elective:Required/Half Yr.
學分數：3 Credits	先修課程： Prerequisites
節次教室：F6(MA-207) F7(MA-207) F8(MA-207) Time/Location	
專業核心能力：具備解決工業工程與管理問題之能力 Core Professional Competencies 研究商管議題之能力(Research capability in practical business discipline)	
課程網址： Course Website	
課程宗旨： Course Objectives	
<p>1. Learn the basics of data mining methods.</p> <p>2. Be able to code the existing data mining algorithms.</p> <p>3. Be able to apply data mining to solve real problems.</p>	
課程大綱： Outline of Lectures	
<p>Week 1: Holiday</p> <p>Week 2: Intro. to course & data mining</p> <p>Week 3: Data I</p> <p>Week 4: Data II</p> <p>Week 5: Classification I</p> <p>Week 6: Holiday</p> <p>Week 7: Classification II</p> <p>Week 8: Homework 1 demo</p> <p>Week 9: Classification III</p> <p>Week 10: Holiday</p> <p>Week 11: Clustering I</p> <p>Week 12: Clustering II</p> <p>Week 13: Homework II demo</p> <p>Week 14: Association rules mining</p> <p>Week 15: Final exam</p> <p>Week 16: Final project presentation</p>	
授課方式： Method of Instruction	
<p>講授 Lecture：70%</p> <p>分組討論 Group discussion：10%</p> <p>案例研討 Case study：0%</p> <p>操做練習 Practical exercises：20%</p> <p>講授 Lecture：%</p>	
教科書： Textbooks	
Tan, P.-N., Steinbach, M., Karpatne A., and Kumar, V., Introduction to Data Mining, Second Edition, Pearson Education, Inc., 2019.	
參考書目： References	
Han, J., Pei, J., and Tong, H., Data Mining: Concepts and Techniques, 4th Edition, Morgan Kaufmann, 2022.	
修課須知： Notice	
TA: Trinh Thi Thuy Quynh	

評量方式： 1. Attendance: 10%.
Grading 2. In-class assignment: 20%.
3. Team homework: 30%.
4. Final exam: 20%.
5. Final team project: 20%.

備註說明： Prerequisites:
Notes Statistics and Management