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：陳怡伶

Instructor:Yi-Ling Chen

課程名稱：社群網路演算

Course Title：Social Network Tutorial

2026/11/3

課程代號： CS4810304 Course Code 學分數： 1 Credits	必選修：必修/半學年 Required/Electve:Required/Half Yr. 先修課程： Prerequisites
節次教室： Time/Location	R6(T3-302) R7(T3-302)
專業核心能力： Core Professional Competencies	□具備分析與解讀實驗數據能力 □具備發掘與解決問題能力 □具備產業實作應用與系統整合能力 □增進溝通協調與團隊合作能力
課程網址： Course Website	https://moodle.ntust.edu.tw/
課程宗旨： Course Objectives	In this tutorial course, we will introduce the usage of packages related to certain important algorithms used in social network analysis, such as link prediction and community detection.
課程大綱： Outline of Lectures	This tutorial course will introduce the usage of packages related to the following topics: 1. Introduction to social networks 2. Models of social networks 3. Ranking tasks in social networks 4. Link prediction 5. Community detection 6. Influence maximization
授課方式： Method of Instruction	講授 Lecture：30% 分組討論 Group discussion：35% 案例研討 Case study：0% 操做練習 Practical exercises：35% 講授 Lecture：%
教科書： Textbooks	(N/A)
參考書目： References	(N/A)
修課須知： Notice	Slides and other course materials will be provided on the Moodle platform.
評量方式： Grading	Programming Assignments: 60% / Final Project: 40% (Final grades will be adjusted based on overall scores.)
備註說明： Notes	Students are expected to have programming experience (e.g., C, C++, Java, Python, or R).