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：金台齡

Instructor:Tai-Lin Chin

課程名稱：計算機網路

Course Title：Computer Networks

2026/11/3

課程代號： CS5008701 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	W2(T4-302) W3(T4-302) W4(T4-302)
專業核心能力： Core Professional Competencies	
課程網址： Course Website	https://moodle2.ntust.edu.tw/
課程宗旨： Course Objectives	This course will investigate computer network design and protocols. The primary focus of the course will be on the architecture, protocols, and software of the Internet.
課程大綱： Outline of Lectures	Application layer protocols and software design Transport layer protocols: TCP and UDP Congestion control and flow control Routing algorithms IP addressing, data forwarding Link layer mechanisms: switching, CSMA/CD Wireless networks, CSMA/CA, IEEE 802.11 Cellular system
授課方式： Method of Instruction	講授 Lecture：90% 分組討論 Group discussion：0% 案例研討 Case study：0% 操做練習 Practical exercises：10% 講授 Lecture：%
教科書： Textbooks	J. Kurose and K. Rose, "Computer Networking - A Top-Down Approach", 8th ed., Pearson, 2022
參考書目： References	Larry L. Peterson, Bruce S. Davie, "Computer Networks: A Systems Approach", Morgan Kaufmann, 2021
修課須知： Notice	N/A
評量方式： Grading	Midterm: 50% Final: 50%
備註說明： Notes	N/A