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：陳俊良

Instructor:Jiann-Liang Chen

課程名稱：個人通訊網路

Course Title：Personal Communication Networks

2026/11/3

課程代號：EE5106701 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：R2(IB-609) R3(IB-609) R4(IB-609) Time/Location	
專業核心能力： Core Professional Competencies	
課程網址：https://nas.wnecpro.com Course Website	
課程宗旨： Course Objectives	The primary objective of this course is to introduce the fundamental concepts, system architecture, service characteristics, operation and maintenance management, and advanced applications of personal communication networks (Wireless Network/B5G/6G/LEO, etc.). It aims to guide students in understanding the fundamental theories of personal communication systems, networks, and services, preparing them for future careers in PCS network operations, applications, research, and development.
課程大綱： Outline of Lectures	As the end of this course, the student will be able to: 1.Introduction to the basic concepts and operations of PCN. 2.Introduction to PCN architecture suitable for heterogeneous networks (Wireless Network/B5G/6G/LEO…). 3.Introduction to the PCN multimedia service architecture and operations. 4.Introduction to the PCN mobility and network management. 5.Introduction to the integrated PCS network and advanced applications.
授課方式： Method of Instruction	講授 Lecture：50% 分組討論 Group discussion：50% 案例研討 Case study：0% 操做練習 Practical exercises：0% 講授 Lecture：Teacher lectures/professional teacher lectures/group discussions and reports.%
教科書： Textbooks	No.
參考書目： References	1.Technical Report/Research Papers 2.Materials to be prepared by teachers
修課須知： Notice	This course is an EMI (English as a Medium of Instruction) course. If you have difficulty understanding the content, you may seek assistance from the instructor.

評量方式： Grading	Midterm(Report):40%； Home Work:20%； Case Study(Report):40%
備註說明： Notes	1. Basic Computer Network Concepts. 2. Basic English listening and writing skills.