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：陳建雄

Instructor:CHEN CHIEN-HSIU

課程名稱：人機介面設計

Course Title：Interface Design

2026/11/3

課程代號： DT5700702 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	S2(RB-412) S3(RB-412) S4(RB-412)
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	Human-machine interface design is a discipline concerned with the design, implementation and evaluation of interactive intelligent systems for human use and with the study of major phenomena surrounding them. This course will provide a broad overview of this field with an emphasis on user experience design, mobile interaction design, and usability testing. 人機介面設計課程是一個相關於給人們使用之智慧型互動系統的設計、執行與評估作業探討，並且亦研究人與機器互動的週遭現象。此課程將於人機介面領域中提供同學廣泛之見解，並且強調使用者經驗設計、行動互動設計、及使用性測試等重要學理。
課程大綱： Outline of Lectures	Week 1: Course Introduction Week 2: What is Interaction Design? Week 3: Understanding and Conceptualizing Interaction Week 4: Understanding Users Week 5: Social Aspects of HCI Week 6: Understanding How User Interfaces Affect Users Week 7: Identifying Needs and Establishing Requirements Week 8: Interaction Design Workshop (1) Week 9: Design, Prototyping, and Construction Week 10: User-Centered Approaches to Interaction Design Week 11: Introducing Evaluation Week 12: An evaluation Framework & Observing Users Week 13: Asking Users & Experts Week 14: Testing & Modeling Users Week 15: Design & Evaluation in the Real World Week 16: Interaction Design Workshop (2)
授課方式： Method of Instruction	講授 Lecture：80% 分組討論 Group discussion：20% 案例研討 Case study：0% 操做練習 Practical exercises：0% 講授 Lecture：%
教科書： Textbooks	Sharp, H., Roger, Y., & Preece, J. (2007). Interaction Design: Beyond Human-Computer Interaction. (2nd ed.). Hoboken, NJ: John Wiley & Sons.

參考書目： References	陳建雄譯，(2010.4)，互動設計：跨越人-電腦互動(第二版) / Jennifer Preece, Yvonne Rogers, Helen Sharp著，台北：全華科技。
修課須知： Notice	限在職班研究生選課 Students should be aware of the rules regarding academic misconduct. Students with Disabilities Any student who has a disability that prevents the fullest espression of abilities should contact the instructor to that they can discuss class requirements.
評量方式： Grading	The grade for the course will be based on performance in the assigned projects, discussions. The total number of points for the class is 100. Project 1 45 Term Project 45 Participation 10 The total is 100
備註說明： Notes	依設計系規定