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：李敏凡

Instructor:Min-Fan Ricky Lee

課程名稱：影像伺服控制

Course Title：Visual Servo Control

2026/11/3

課程代號： AC6502701 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	F10(TR-517) F8(TR-517) F9(TR-517)
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	1. Theory Learn visual servo control concept 2. Practical Implementation on mobile robot (aerial, ground, surface and underwater locomotion) or simulation Problem-based and Project-based Learning (Teamwork) 3. Publication Learn academic writing in English (IEEE Paper Style)
課程大綱： Outline of Lectures	The concept on visual sensing and perception includes -autonomous tasks localization, mapping and path planning -behaviors goal seeking, obstacle avoidance, trajectory tracking and formation keeping
授課方式： Method of Instruction	講授 Lecture：25% 分組討論 Group discussion：25% 案例研討 Case study：25% 操做練習 Practical exercises：25% 講授 Lecture：%
教科書： Textbooks	N/A
參考書目： References	N/A
修課須知： Notice	TA
評量方式： Grading	Problem session: 25% Project session (Proposal):25% Project session (Report):50%
備註說明： Notes	EMI, Problem and Project based Learning