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：陳偉倫

Instructor:Woei-Luen Chen

課程名稱：電機控制

Course Title：Electric Machine Control

2026/11/3

課程代號： EE4203301 Course Code 學分數： 3 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	T6(EE-406) T7(EE-406) W8(IB-503)
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	This course is tailored for students with a foundation in electric motors, electronics, and control.
課程大綱： Outline of Lectures	dc machine mathematical model and control, induction machine mathematical model and control, vector-based controller and observer design.
授課方式： Method of Instruction	講授 Lecture：50% 分組討論 Group discussion：0% 案例研討 Case study：0% 操做練習 Practical exercises：50% 講授 Lecture：%
教科書： Textbooks	Electric Motor Control DC, AC, and BLDC Motors, Elsevier Science, Sang-Hoon Kim
參考書目： References	
修課須知： Notice	
評量方式： Grading	Midterm 40% Homework 60% (Please note that each absence will result in three points from the final grade.)
備註說明： Notes	Students are required to have a basic knowledge of electric machinery.