

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：王蒼容

Instructor:Wang, Chun-Long

課程名稱：電磁相容

Course Title : Electromagnetic
Compatibility

2026/5/6

課程代號： ET5510701 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： W2(IB-511-2) W3(IB-511-2) W4(IB-511-2) Time/Location	
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： This course aims to equip the students with the fundamentals of Course electromagnetic compatibility. Objectives	
課程大綱： Chapter 1 Introduction to Electromagnetic Compatibility (EMC) Outline of Chapter 2 EMC Requirements for Electronic Systems Lectures Chapter 3 Signal Spectra—the Relationship between the Time Domain and the Frequency Domain Chapter 4 Transmission Lines and Signal Integrity Chapter 5 Nonideal Behavior of Components Chapter 6 Conducted Emissions and Susceptibility Chapter 7 Antennas Chapter 8 Radiated Emissions and Susceptibility Chapter 9 Crosstalk	
授課方式： 講授 Lecture：100% Method of Instruction 分組討論 Group discussion：0% 案例研討 Case study：0% 操做練習 Practical exercises：0% 講授 Lecture：%	
教科書： Introduction to Electromagnetic Compatibility, 2nd edition, Clayton R. Textbooks Paul, John Wiley & Sons.	
參考書目： Noise Reduction Techniques in Electronic Systems, 2nd edition, H. W. References Ott, Wiley-Interscience, New York, 1986.	
修課須知： Notice	
評量方式： Midterm (40%) Grading Final Examination (40%) Special Report (20%)	
備註說明： None Notes	