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：林忠火

Instructor:Lin,Chun-Huo

課程名稱：電子電路實習

Course Title：Electronics Lab.

2026/11/3

課程代號： EE3705303 Course Code 學分數： 1 Credits	必選修：必修/半學年 Required/Electve:Required/Half Yr. 先修課程： Prerequisites
節次教室： W1(T2-411) W2(T2-411) W3(T2-411) Time/Location	
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	The objective of this course is to validate the theory of electronic circuits, and to develop students' ability to operate instruments and analyze electronic circuits.
課程大綱： Outline of Lectures	1.MOSFET I-V curve 2.MOSFET Small signal analysis 3.Operational amplifier characteristics 4.Integrators , differentiator 5.Precision rectifiers 6.Add amplifiers 7.Midterm review 8. Midterm Exam. 9.Comparator and Schmit trigger circuits 10.General impedance converter 11.Wien bridge vibrator 12.IC 555 Astable Oscillator 13.Pulse Width Modulation(PWM) and Frequency Modulation (FM) 14.Function waveform generator 15. Final review 16. Final Exam.
授課方式： Method of Instruction	講授 Lecture：30% 分組討論 Group discussion：10% 案例研討 Case study：0% 操做練習 Practical exercises：60% 講授 Lecture：%
教科書： Textbooks	陳瓊興，電子學實驗(下)，第九版，全華圖書，202106
參考書目： References	Self-Editing Teaching Materials on Moodle
修課須知： Notice	

評量方式： Grading	1. Midterm 25% 2. Final 25% 3. General Performance 25% 4. Lab Report 25%
備註說明： Notes	