

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.

2026/5/6

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| 課程代號： EE3705304 Course Code | 必選修：必修/半學年 Required/Elective:Required/Half Yr. |
| 學分數： 1 Credits | 先修課程： Prerequisites |
| 節次教室： F10(T2-411) F8(T2-411) F9(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 Unsteady 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： 1. Midterm 25% 2. Final 25% 3. General Performance 25% 4. Lab Report
Grading 25%

備註說明：
Notes