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：溫振廷

Instructor:WEN, CHEN-TING

課程名稱：應用電子學

Course Title：Applied Electronics
(Introduction to Electronics)

2026/11/3

課程代號：ME3409302 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：R3(TR-516) R4(TR-516) T3(TR-516) Time/Location	
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	This course provides a comprehensive introduction to electronics, covering fundamental semiconductor devices, analog and digital circuits, logic design, microprocessors, and industrial control components. Through theoretical lectures and hands-on exercises, students will develop a strong foundation in electronic circuit analysis and applications.
課程大綱： Outline of Lectures	Week 1. Course Information Week 2. Introduction Week 3. Resistive Circuits I Week 4. Resistive Circuits II Week 5. Resistive Circuits III Week 6. Inductance and Capacitance I Week 7. Inductance and Capacitance II (Course on Thursday will be suspended since it is the national holiday) Week 8. Inductance and Capacitance III Week 9. Transients I (&Mid-Term exam on Thursday) Week 10. Transients I Week 11. Transients II Week 12. Diodes I Week 13. Steady State Sinusoidal Analysis I Week 14. Steady State Sinusoidal Analysis II Week 15. Operational Amplifiers Week 16. Term-end Exam (on Thursday)
授課方式： Method of Instruction	講授 Lecture：0% 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： Textbooks	Electrical Engineering: Principles and Applications 7/E, Allan R. Hambley
參考書目： References	Electrical Engineering: Principles and Applications 7/E, Allan R. Hambley

修課須知： Notice	Please check the lecture materials from Moodle every week.
評量方式： Grading	Mid-term Exam: 30% Term-end Exam: 40% Hws: 30%
備註說明： Notes	This course will be conducted in English. Students should have basic English communication skills to follow the lectures effectively. The language used in this course will be straightforward, as it focuses on science and engineering concepts.