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：林保宏

Instructor:Pao-Hung Lin

課程名稱：物理(下)

Course Title：Physics (II)

2026/11/3

課程代號： ET163B002 Course Code 學分數： 3 Credits	必選修：必修/全學年 Required/Electve:Required/Full Yr. 先修課程： Prerequisites
節次教室： Time/Location	F4(TR-410) M3(TR-313) M4(TR-313) RA(TR-313)
專業核心能力： Core Professional Competencies	
課程網址： Course Website	moodle
課程宗旨： Course Objectives	This course will first give an introduction to the history of Physics, starting from the universe model of Aristotle to laws of motion by Issac Newton, theory of relativity by Einstein, and finally to the black body radiation of Steven Hawking. Among them, Newtonian mechanics is the main topic for the whole semester. We will go through the basic of classical mechanics, thermodynamics, electromagnetism and optics in detail.
課程大綱： Outline of Lectures	the electric field, Gauss's law, potential and capacitance, magnetic field, Faraday's law and inductance, DC and AC circuits, electromagnetic, optical imaging and diffraction, theory of relativity
授課方式： Method of Instruction	講授 Lecture：90% 分組討論 Group discussion：0% 案例研討 Case study：0% 操做練習 Practical exercises：10% 講授 Lecture：%
教科書： Textbooks	serway 11th edition
參考書目： References	class video
修課須知： Notice	Professional teacher's class by Mr. Yang for 12 hr. He is a manager from semiconductor business for 11 years.
評量方式： Grading	midterm 120 final exam 120 assignment 20
備註說明： Notes	none