

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：呂政修

Instructor: Jenq-Shiou Leu

課程名稱：微積分(下)

Course Title : Calculus (II)

2026/6/22

課程代號： ET161B002 Course Code	必選修：必修/全學年 Required/Elective: Required/Full Yr.
學分數： 4 Credits	先修課程： Prerequisites
節次教室： M3(IB-501) M4(IB-501) R10(IB-501) R9(IB-501) W10(IB-501) Time/Location	
專業核心能力： Core Professional Competencies	
課程網址： Course Website https://www.youtube.com/channel/UCAU11OcRhcb6H-FgY3AiIXA	
課程宗旨： Course Objectives Build the knowledge of Calculus and its related applications so that students can extend the absorbed knowledge to the advanced courses in the future	
課程大綱： Outline of Lectures In this course, we will discuss about 1. transcendental functions (2 weeks) 2. techniques of integration (3 weeks) 3. conic sections and polar coordinates (2 weeks) 4. infinite sequences and series (1 week) 5. space vector (1 week) 6. partial derivatives (3 weeks) 7. multiple integrals (2 weeks)	
授課方式： Method of Instruction 講授 Lecture：80% 分組討論 Group discussion：0% 案例研討 Case study：0% 操做練習 Practical exercises：20% 講授 Lecture：N/A%	
教科書： Textbooks Thomas' "Calculus" 14th., ed. (Paperback) Joel R. Hass , Christopher E. Heil , Maurice D. Weir (Pearson FT Press) ISBN: 1292253223 ISBN-13: 9781292253220	
參考書目： References N/A	
修課須知： Notice Two TAs in this class and one practice lesson on Wed. afternoon (W10) Their email addresses are shown as follows: M11302115@mail.ntust.edu.tw (陳助教) M11402112@mail.ntust.edu.tw (黃助教)	
評量方式： Grading Quizzes:40% (two quizzes) Mid-term exam: 25% Final-term exam: 30% Others:5%	

