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)

2026/11/3

課程代號：ET161B002 Course Code	必選修：必修/全學年 Required/Electve: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：https://www.youtube.com/channel/UCAU11OcRhcb6H-FgY3AilXA Course Website	
課程宗旨：Build the knowledge of Calculus and its related applications so that students can extend the absorbed knowledge to the advanced courses in the future Course Objectives	
課程大綱：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) Outline of Lectures	
授課方式：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% Method of Instruction	
教科書：Thomas' "Calculus" 14th.,ed. (Paperback) Joel R. Hass , Christopher E. Heil , Maurice D. Weir (Pearson FT Press) ISBN: 1292253223 ISBN-13: 9781292253220 Textbooks	
參考書目：N/A References	
修課須知：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) Notice	
評量方式：Quizs:40% (two quizs) Mid-term exam: 25% Final-term exam: 30% Others:5% Grading	

備註說明： Fundamental math skills & Calculus (I)
Notes