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：Hairus

Instructor:Hairus Abdullah

課程名稱：微積分(下)

Course Title：Calculus (II)

2026/11/3

課程代號： CE162B012 Course Code 學分數： 4 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	F6(TR-515) F7(TR-515) T9(TR-615) W6(TR-515) W7(TR-515)
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	這門課將第一次介紹微分與積分的基礎
課程大綱： Outline of Lectures	在這課程中，我們將介紹極座標、向量、偏微分與多重積分。更進一步學生將會練習許多積分與微分的技巧，而利用這些技巧解開在物理或工程上基礎與實際的問題。 In this course, we will introduce the polar coordinates, vector, partial differentiation, and multiple integration. Furthermore, students will practice many techniques of differentiation and integration in the course, and use them to solve both fundamental and practical problems in the physical world.
授課方式： Method of Instruction	講授 Lecture：60% 分組討論 Group discussion：20% 案例研討 Case study：0% 操做練習 Practical exercises：20% 講授 Lecture：%
教科書： Textbooks	1. Openstax Calculus II and III 2. Calculus, James Stewart, Daniel Clegg, and Saleem Watson
參考書目： References	
修課須知： Notice	There will be a TA in this course.
評量方式： Grading	Attendance = 10% Assignment = 25% (sent to Moodle) Quiz = 15% (close-book) Mid-term (close-book exam) = 25% Final-term (close-book exam) = 25%
備註說明： Notes	Students should have taken Calculus - I and the course will be delivered in English, including quizzes, mid- and final-term exams.