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：楊朝龍

Instructor:Chao-Lung Yang

課程名稱：計算機程式

Course Title：Computers Programming

2026/11/3

課程代號： IM1201302 Course Code 學分數： 2 Credits	必選修：必修/半學年 Required/Electve:Required/Half Yr. 先修課程： Prerequisites
節次教室： Time/Location	W3(MA-215) W4(MA-215)
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	1.應用程式語言處理基本演算邏輯。2.資料庫應用。 This course is designed to provide students a complete understanding of basic programming concepts and how to implement them in Python. The course will emphasize on the major features of programming languages to solve problems in engineering and management. This course includes lab sessions followed by lectures. This course is the one-semester (18-week) comprehensive course for junior year undergraduate students in management school. This course mainly covers first half of textbook: 1. Scratch 2. An introduction to Python 3. Simple Numerical Programs 4. Functions and Scoping 5. Recursive 6. Global Variable, Modules and File 7. Tuples, Lists and Mutability 8. Functions as Object, Sequence Types, and Dictionaries 9. Testing and Debugging 10. Exceptions and Assertions 11. Class and Object-Oriented Programming I 12. Class and Object-Oriented Programming II 13. Algorithm Complexity 14. Searching, Sorting, and Hash Table
課程大綱： Outline of Lectures	1.應用程式語言處理基本演算邏輯。2.資料庫應用。
授課方式： Method of Instruction	講授 Lecture：% 分組討論 Group discussion：% 案例研討 Case study：% 操做練習 Practical exercises：% 講授 Lecture：%
教科書： Textbooks	

參考書目： References
修課須知： Notice
評量方式： Grading
備註說明： Notes