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②国玄東華大學

課 網 Course Outline 理工學院大數據科學國際學士班學士班

中文課程名稱 Course Name in Chinese		程式設計(一)					
英文課程名稱 Course Name in English		Introduction to Computer Programming (I)					
科目代碼 Course Code		DS10000	班 別 Degree	Ва	學士班 Bachelor's		
修別 Type		學程 Program	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite		無					
課程目標 Course Objectives							
介紹程式設計基本觀念、方法與程式發展技術。 In this course, the teacher will introduce the basic concepts and methods of programming and its development techniques.							
系教育目標 Dept.'s Education Objectives							
	訓練嚴謹思考與推理能力。 to provide a solid training in rigorous thinking and reasoning,						
2 to ϵ	奠定資料科學理論與應用數學的基礎知識。 to establish well-founded background knowledge in data science and applied mathematics,						
1 3 1	3 具備跨領域學習能力。 to prepare the students for interdisciplinary study in the future.						
系專業能力 Basic Learning Outcomes					力相關性 Correlati between C Objective	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education	
Objectives							
A have	具備基本資料科學知識及邏輯推理能力。 A have well-founded background in data science and logical reasoning,						
B have	具備機率、統計、資料科學及相關領域的知識與應用能力。 have the knowledge of probability, statistics, data science and the related fields, and their applications,						
C be a	具備資料科學應用技能與團隊合作,解決問題能力。 C be able to utilize data scientific skills for problem solving through cooperation and teamworking.						

圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated

課程大綱

Course Outline

- 1. Introduction to Programming Languages and Computer Systems.
- 2. Basic Concepts of Programming.
- 3. The Program Structure of C Language.
- 4. Basic Data Types and Input/Output.
- 5. Selection Statements and loops.
- 6. Function Design and Parameter Passing. 7. Arrays and Pointers.
- 8. File Input and Output.
- 9. Modular Programming.

資源需求評估 (師資專長之聘任、儀器設備的配合・・・等)

Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

需相關專業教師支援教學。

Appeals to subject-area specialists for pedagogical support in teaching.

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

Lecture and Program Implementation. The Maximum number of students is 40. Grading & Assessments: Midterm Exam, Final Exam, and Homework and Assignments

其他

Miscellaneous

1130306訂定。

This course syllabus was approved on March 6, 2024.