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②國玄東華大學

課 綱 Course Outline 理工學院大數據科學國際學士班學士班

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中文課程名稱 Course Name in		程式設計實驗(一)					
Chinese							
英文課程名稱							
Course Name in		Lab of Programming I					
English							
科目代碼 Course Code		DS10060	班別 學士班 Degree Bachelor's				
		a co					
修別 Type		學程 Program	學分數 Credit(s)	1.0	時 數 Hour(s)	3.0	
先修課程		110816111	creart(b)		nour (b)		
Prerequisite							
課程目標							
Course Objectives							
To develop students' basic programming skills in the C/C++ programming language.							
系教育目標 Dept.'s Education Objectives							
1	訓練嚴謹思考與推理能力。						
1	to provide a solid training in rigorous thinking and reasoning,						
0	奠定資料科學理論與應用數學的基礎知識。						
Z	to establish well-founded background knowledge in data science and applied nathematics,						
3	具備跨領域學習能力。						
to prepare the students for interdisciplinary study in the future.							
課程目標與系專業						與系專業能	
		系專業能力	系 專 举 能 力			力相關性 Correlation	
71. 4 3K 2624				between (between Course		
		Basic Learning Outcomes				Objectives and	
						Dept.'s Education Objectives	
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,						
D	具備機率、統計、資料科學及相關領域的知識與應用能力。						
В	have the knowledge of probability, statistics, data science and the related fields, and their applications,						
	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					\bigcirc	
	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. Program development environment operation and program basic structure experiment.
- 2. Basic data types and export/import experiments.
- 3. Program operation process design: condition and selection structure experiment.
- 4. Program operation process design: loop structure experiment.
- 5. Function and parameter passing experiments.
- 6. Experiments on the use of arrays and indicators.
- 7. File output and input experiments.
- 8. Modular programming experiment.
- 9. Experiment with basic classes and objects.

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.)

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

Suggestions for teaching requirements and ways of proceeding:

Powerpoint presentation and program implementation.

The maximum number of students in the class is 40 people.

Multiple (TA) teaching assistants are needed to assist in teaching

Basis and standards for course grade evaluation:

Class roll call and program implementation.

其他

Miscellaneous