②國玄東華大學

課 網 Course Outline

資訊工程學系國際組

中文課程名稱 Course Name in Chinese		程式設計能力檢定					
英文課程名稱 Course Name in English		Programming Ability Certification					
科目代碼 Course Code		CSIEM0540	班 別 Degree		碩士班 Master's		
修別 Type		選修 Elective	學分數 Credit(s)	0.0	時 數 Hour(s)	0.0	
	多課程 requisite						
			課程目標 e Objectives				
透过	過外部考試,客觀檢						
0bj	ectively test stu	udents' programming ab		ough external	exams.		
		•	《教育目標 Ication Objec	ctives			
1	探究學科知識,善用專業技能 Explore academic knowledge, utilize professional skills.						
2	訓練評析思考,創新解決問題 Exercise analytical thinking, enhance creative problem solving skills.						
3	學習團隊分工,強化溝通表達 Participate in teamwork, strengthen communication skills.						
系專業能力 Basic Learning Outcomes					力相關性 Correlat between Objectiv Dept.'s	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives	
統合資工知識技術之能力 Ability to integrate knowledge and technologies of computer science and information engineering.					Objectiv	•	
В	設計技術理論驗證實驗之能力 B Ability to design and conduct science experiments and to validate hypotheses.					•	
C 資訊軟硬體設計開發之能力 Ability to design and develop computer software and hardware.						•	
D	團隊專案開發之能 Ability to desig	カ n and develop team pr	ojects.				

批判性思考與創新研發之能力 E Ability of analytical thinking, creative research planning, and innovative development.	0
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圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated

課程大綱 Course Outline

- 1. 運用基礎數學、科學知識
- 2. 基礎程式設計能力
- 3. 設計完整系統/運算思維
- 4. 解決工程問題的能力
- 1. Application of basic mathematical and scientific knowledge
- 2. Basic programming skills
- 3. Ability to design complete systems/computational thinking
- 4. Ability to solve engineering problems

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

學生必須於畢業前選修此課程且取得成績,若本課程成績不及格,不影響畢業。

Students must take this course and obtain grades before graduation. Failure to pass this course will not affect graduation.

其他 Miscellaneous