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②國玄東華大學

課 網 Course Outline

資訊工程學系資工組

中文課程名稱

Cou	C誅程石稱 rse Name in nese	計算機概論						
英文課程名稱 Course Name in English		Introduction to Computer Science						
科目代碼 Course Code		CSIE10200	班 別 Degree		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						
		Cours	課程目標 se Objectives					
介紹計算機科學與工程的入門知識,使初步接觸此學門的本科系學生對於各 重要領域能有一通盤性的瞭解,課程尤強調學生的程式設計能力與計算機網 路的使用,以奠定日後修習各類課程的基礎。								
系教育目標 Dept.'s Education Objectives								
1		十知識、養成專業技能 academic knowledge, develop professional skills						
2	學習創新思考,分 Inspire innovat	析解決問 tive thinking, increase analytical problem solving ability						
3		B養團隊精神,學習溝通合作 romote teamw ork spirit, encourage coordination and cooperation						
4		昇專業倫理、承擔社會責任 olimate professional ethics, engage social responsibility						
5	涵育人文素養、開拓國際視野 Cultivate humanities, broaden global perspective							
系專業能力 Basic Learning Outcomes					力相關性 Correlati between (Objective	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education		
A	資訊專業終身學習				Objective			
11	Ability of lifetime learning in information profession 實驗驗證資訊科學能力							
В				(0			

С	資訊工具整合運用能力 Ability of integrated applications of information technology	•				
D	資訊系統應用設計開發能力 Ability of information application system design and development □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □					
Е	團隊合作溝通協調能力 Ability of teamwork, communication, and coordination					
F	資通訊科技問題解決能力 Ability of problem solving regarding information and communication technolog ○					
G	瞭解資訊科技多元影響能力 Ability to understand information technology's multiple influences ■					
Н	肩負資訊人社會責任能力 Ability of bearing the social responsibilities being among information professionals	0				
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated						
	課程大綱					
Course Outline						
2. 3. 4. 5. 6. 7. 8. 9. 10.	 Basic Computer Concept Data Representation Boolean algebra and logic design Computer Organization Algorithms Operating Systems Computer Networks Programming Language Software Engineering Multimedia Database Systems 					
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.)						
本系已有這方面的師資,電腦設備也足以配合。						
課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods						
講授、討論與程式設計						
1	教學以講授及討論為主,並輔以專題研究、作業及口頭報告。					
	其他 Winestland					
	Miscellaneous					