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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

Cou	rse Name in nese	計算機概論					
英文課程名稱 Course Name in English		Introduction to Computer Science					
	1代碼 rse Code	CSIEB0010	班 別 學士班 Degree 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							
課程目標 Course Objectives							
本課程的主要目的是引導學生進入資訊工程這個領域,介紹資訊工程基礎概念的核心主題, 以奠基資訊工程的學習。 To explore the fundamental material needed to handle the rigor of computer science and information engineering for undergraduate students 系教育目標 Dept.'s Education Objectives							
1	目供學科知識,養出東安林於 1						
2	與羽剑·新田·						
3	B 培養團隊精神,學習溝通合作 Promote teamwork spirit, encourage coordination and cooperation						
4	提昇專業倫理,承擔社會責任 Sublimate professional ethics, engage social responsibility						
5	涵育人文素養,開拓國際視野 Cultivate humanities, broaden global perspectives						
		系專業能力 Basic Learning Out	comes		力相關性 Correlati between C Objective	ourse s and Education	
A	資訊專業終身學習 Ability of lifet	能力 ime learning in infor	mation profes	ssion		•	
В	實驗驗證資訊科學 Ability of valid information scie	ate experimental resu	lt validation	n in	(Э	

C	資訊工具整合運用能力 Ability of integrated applications of information technology	•					
	資訊系統應用設計開發能力						
D	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 technology	0					
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							
1. History and Social Implications of Computing							
1	2. Computing Security and Ethics						
	Computer Architecture						
	Networks						
5.	The Internet						
6.	6. Database Fundamentals						
7.	Numbering Systems and Data Representations						
8.	Data Structures						
9.	9. Operating Systems						
10. File Structures							
11. The Human-Computer Interface							
	12. Problem Solving and Debugging						
13. Software Engineering							
14.	4. Programming I 5. Programming II						
10.	Trogramming 11 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.)						
Professional Professional Instructors							
課程要求和教學方式之建議							
Course Requirements and Suggested Teaching Methods							
*Instruction *In-class activitie							
其他							
	Miscellaneous						