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②国玄東華大學

課 網 Course Outline

資訊工程學系國際組

中文課程名稱 Course Name in Chinese	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	CSIEB0010	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					
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。					
以與本真航上程的字首。 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 具備學科知識,養成專業技能 Acquire academic knowledge, develop professional skills					
2 學習創新思考,分析解決問題 Inspire innovative thinking, increase analytical problem solving ability					
3 培養團隊精神,學習溝通合作 Promote teamwork spirit, encourage coordination and cooperatio					
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 Outcomes			課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives		
A 資訊專業終身學習 Profound profess	能力 ional knowledge and s	skills		•	
B 實驗驗證資訊科學 Sound and free s	能力 pirit; simple and gen	nerous quality	7	0	

資訊工具整合運用能力 Ability to appreciate beauty and think creatively				
資訊系統應用設計開發能力 Sense of democracy, the rule of law, and civil responsibility				
图除合作溝通協調能力 Ability of communication, teamwork, and social practice				
F 資通訊科技問題解決能力 Possess both domestic and global pers	0			
G 瞭解資訊科技多元影響能力 Knowledgeable and possess the quality of humanism ●				
局負資訊人社會責任能力 H Ability of verbal expression and information organization and application				
圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated				
課程大綱 Course Outline				
 History and Social Implications of Computing Computing Security and Ethics Computer Architecture Networks The Internet Database Fundamentals Numbering Systems and Data Representations Data Structures Operating Systems File Structures The Human-Computer Interface Problem Solving and Debugging Software Engineering Programming I Programming II 				
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				