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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 Course Name in Chinese	計算機組織與組合語言					
英文課程名稱 Course Name in English	Computer Organization					
科目代碼 Course Code	CSIEB0140	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 se Objectives				

介紹計算機的基本組織與架構,使學生對於計算機系統的組成方式有一深入的瞭解,並學習如何用組合語言撰寫程式。

This course presents the basic organization and architecture of computer systems. It aims at making the students understand how a computer is composed and learn how to program with assembly language.

pro	ogram with assembly language.				
	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	3 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	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	資訊專業終身學習能力 Ability of lifetime learning in information profession	•			

В	實驗驗證資訊科學能力 Ability of validate experimental result validation in information science field	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	0			
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	0			
Н	房負資訊人社會責任能力 H Ability of bearing the social responsibilities being among information professionals				
圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated					
課程大綱 Course Outline					
 Introduction Computer Abstraction and Technology Instruction Set and Assembly Language Arithmetics for Computers Machine Organization Pipelined Processors Memory Hierarchy 					
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.)					
計算機結構方面的師資、個人電腦。 Lecturer in the area of computer architecture, and personal computers.					
課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods					
講授、程式設計實作與討論。					
Lecture, programming assignment and discussion.					
	其他				
	Miscellaneous				
	Miscellaneous				