Please consult Intellectual Property Rights before making a photocopy. Please use the textbook of copyrighted edition.

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 Course Name in Chinese		計算機結構						
英文課程名稱 Course Name in English		Computer Architecture						
科目代碼 Course Code		CS1E30300	班 別 Degree					
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						
	課程目標							
			e Objectives					
		的 CPU 其內部架構為何,	如何					
	使速度更快、記憶體層次 的觀念、輸出/入的影響,以及基本的平行架構。							
的概念·糊山/八的影響,以及基本的十行朱楠。								
Dept.'s Education Objectives								
	1 具備學科知識、養成專業技能 Acquire academic knowledge, develop professional skills							
1 7 1	學習創新思考,分析解決問 Inspire innovative thinking, increase analytical problem solving ability							
1.3.1	· 培養團隊精神,學習溝通合作 Promote teamw ork spirit, encourage coordination and cooperation							
1 /1 1	坦 見 東 娄 於 理 、 承 쌾 社 命 告 任							
1 7 1	还有人立去差、問切圖數祖野							
系專業能力 Basic Learning Outcomes				力相關性 Correlati between (Objective Dept.'s	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						•		
實驗驗證資訊科學能力 B 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	\circ				
D	development 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	0				
G	瞭解資訊科技多元影響能力 Ability to understand information technology's multiple influences	0				
Н	肩負資訊人社會責任能力 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						
1.	1. Computer Abstractions and Technology					
2.						
3.						
	. Arithmetic for Computers					
	. The Process: Datapath and Control					
	. Enhancing Memory with Pipelinging					
	Exploiting Memory Hierarchy					
8. Interfacing Processors and Peripherals						
	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.)					
現有師資設備可支援。						
課程要求和教學方式之建議						
Course Requirements and Suggested Teaching Methods						
期中考、期末考與平常作業,平常作業包括寫數個組						
合語言程式。						
其他						
Miscellaneous						