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## ②國玄東華大學

## 教學計劃表 Syllabus

	名稱(中文) ame in Chinese	計算機組織與組	1合語言		學年/學期 Academic Year/Sem	105/2			
	名稱(英文) ame in English	Computer Organization							
	科目代碼 Course Code CSIEB0140			學二	開課單位 Course-Offering Department	資	資訊工程學系		
	修別 Type	學程 Program	學分數/時局 Credit(s)/Hou	0/3.0	3.0				
	受課教師 structor	/楊茂村							
先修課程 Prerequisite									
課程描述 Course Description									
instructio		is instructed			ne assembly languag ussion. Students ha				
課程目標 Course Objectives									
介紹計算機的瞭解。	的基本組織與架構	,使學生對於計	算機系統的組成	方式有一次	深入				
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Profound professional knowledge and skills							•		
B實驗馬	B 實驗驗證資訊科學能力Sound and free spirit; simple and generous quality						$\bigcirc$		
C 資訊	C 資訊工具整合運用能力Ability to appreciate beauty and think creatively								
D 資訊系統應用設計開發能力Sense of democracy, the rule of law, and civil responsibility						$\bigcirc$			
E 團隊合作溝通協調能力Ability of communication, teamwork, and social practice							•		
F 資通訊科技問題解決能力Possess both domestic and global perspectives						0			
G 瞭解資訊科技多元影響能力Knowledgeable and possess the quality of humanism							0		
用 「									
l		● 高度相關 Hi	ghly correla	ated 〇中	度相關 Moderately	corre	lated		
授 課 進 度 表 Teaching Schedule & Content									
週次Week		內容 Subject/Topics				備註Remarks			
1	Introduction of	Computer Orga	nization			Chapte	r 1		
2	2 Introduction of Computer Organization Chapter 1				r 1				
3	Performance				Chapter 1				

4	Performance							Chapter 1		
5	MIPS Instruction Set							Chapter 2		
6	MIPS Instruction Set							Chapter 2		
7	Arithmetic for	Computers							Chapter 3	
8	Arithmetic for Computers						Chapter 3			
9	期中考試週 Midterm Exam									
10	Datapath						Chapter 4			
11	Control						Chapter 4			
12	Logic Design of the Processor							Chapter 4		
13	Single Cycle Implementation							Chapter 4		
14	Multiple Cycle Implementation								Chapter 4	
15	Microprogramming								Chapter 4	
16	80x86 Instruction Set									
17	80x86 Instruction Set									
18	期末考試週 Final Exam									
教 學 策 略 Teaching Strategies										
✓ 課堂講授 Lecture 分組討論Group Discussion 參觀實習 Field Trip						rip				
其他Miscellaneous:										
		學期成績計算	算及多元	評量方式	t Gradi	ng & As	sessmen	ts		
T-1	N-F-17		學期成績計算及多元評量方式 Grading & Assessments 多元評量方式 Assessme							
配分項目 Items		配分比例 Percentage		實作觀察	口頭 發表	專題研究	創作展演	卷宗評量	證照 檢定	其他
 平時成績 General		10%		形尔	73. 13.	**/ 96	及沒	口里	100 / 100	0
Performance		10%	~							Quiz
期中考成績 Midterm Exam		25%	~							
期末考成績 Final Exam		25%	~							
作業成績 Homework and/or Assignments		40%		<b>~</b>						
其他 Miscel (	laneous									
		Grading & A		量方式を nts Sup			ruction	s		•

Written homeworks should be submitted by paper.
Programming homeworks should be submitted through e-Learning@NDHU.
(http://www.elearn.ndhu.edu.tw/moodle/)

教科書與參考書目(書名、作者、書局、代理商、說明) Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)
Textbook: Patterson & Hennessy. Computer Organization & Design: the Hardware/ Software Interface, Morgan Kaufmann, 5th Edition, 2013.(新月代理) Reference Book:
Patterson & Hennessy. Computer Architecture: A Quantitative Approach, Morgan Kaufmann, 5th Edition, 2012.(新月代理) Stallings. Computer Organization and Architecture. 8th Edition, Prentice Hall, 2010. (高立代理)
課程教材網址(教師個人網址請列在本校內之網址) Teaching Aids & Teacher's Website (Personal website can be listed here.)
其他補充說明(Supplemental instructions)