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## ②图玄東華大學

課程名稱(中文) Course Name in Chinese	教學計劃表 Syll 嵌入式系統設計概論				學年/學期 Academic Year/Se	107/2			
課程名稱(英文) Course Name in English	Introduction	Introduction to Embedded System Design							
科目代碼 Course Code	CSIEB0380	系級 Department & Year	學三		開課單位 Course-Offering Department	資訊工程學系			
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)			3.0/3.0				
授課教師 Instructor	/紀新洲								
先修課程 Prerequisite									
課程描述 Course Description									
使了解基本的嵌入式系統設計,探討如何將各單元整合成一完整的嵌入式系統,並在實作平台上驗證其實作的技巧。									
課程目標 Course Objectives									

embedded software development cover a variety of topics. We will investigate these topics in this course.

	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	•
В	實驗驗證資訊科學能力Sound and free spirit; simple and generous quality	•
С	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	0
Е	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	•
G	瞭解資訊科技多元影響能力Knowledgeable and possess the quality of humanism	•
Н	房負資訊人社會責任能力Ability of verbal expression and information organization and application	0

圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated

## 授課進度表 Teaching Schedule & Content

週次Week	內容 Subject/Topics	備註Remarks
1	Introduction	
2	ARM Instruction Set & Programming	
3	ARM Instruction Set & Programming	

4	ARM Processor Architecture					
5	Plateform and I/O Interfacing					
6	LED Control					
7	Dot Matrix Control					
8	Dot Matrix Control					
9	Midterm Exam					
10	Keyboard Scanning					
11	Keyboard Scanning					
12	LCD Display					
13	LCD Display					
14	Selected Topics					
15	Selected Topics					
16	Selected Topics					
17	Term Project					
18	Term Project					
	教 學 策 略 Teaching Strategies					
✓ 課堂講	授 Lecture					
 其他Mis	scellaneous:					
	教學創新自評 Teaching Self-Evaluation					
創新教學(	Innovative Teaching)					
問題導向學習(PBL) 團體合作學習(TBL) 解決導向學習(SBL)						
翻轉教室 Flipped Classroom						
社會責任(Social Responsibility)						
在地實踐Community Practice						
跨域合作(Transdisciplinary Projects)						
一 跨界教學Transdisciplinary Teaching						
業師合授 Courses Co-taught with Industry Practitioners						
其它 other:						

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	配分比例	多元評量方式 Assessments							
Items	Percentage	測驗 會考	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 Performance	60%		~						Experiments
期中考成績 Midterm Exam	15%	<b>&gt;</b>							
期末考成績 Final Exam	20%	<b>~</b>							
作業成績 Homework and/or Assignments									
其他 Miscellaneous (Class Participation)	5%								

評量方式補充說明

Grading & Assessments Supplemental instructions

## 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.)

Lecture slides

## 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)