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②國玄東華大學

課 綱 Course Outline

資訊工程學系國際組

中文課程名稱 Course Name in Chinese	嵌入式系統設計概論					
英文課程名稱 Course Name in English	Introduction to Embedded System Design					
科目代碼 Course Code	CSIEB0380	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			1			
	'	課程目標				

課程目標 Course Objectives

嵌入式系統在現代已經是無所不在。這門課主要介紹嵌入式系統設計的基本概念與設計流程,使學生對於嵌入式系統如何構築有一深入的瞭解,並且透過一些實驗來獲得實作上的經驗。 Embedded systems are ubiquitous with diversified applications nowadays. This course presents the basic concepts and design process of embedded systems. It aims at making the students understand how an embedded system is built, and obtain hands-on experience through labs.

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	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 cooperation			
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			
	課程目標與系專業能力相關性			

	77 作 所 生
系專業能力	Correlation
	between Course
	Objectives and
	Dept.'s Education
	Objectives
資訊專業終身學習能力	
Ability of lifetime learning in information profession	•

	Miscellaneous					
其他						
講授、實作與討論。 Lecture, labs and discussion.						
新柱安水和教学方式之廷識 Course Requirements and Suggested Teaching Methods						
Lecturer in the area of embedded systems, and experiment boards. 課程要求和教學方式之建議						
1 '	計算機結構方面的師資、個人電腦。					
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.)						
	7. Embedded Operating Systems 8. Labs for Embedded Operating Systems					
1	6. Labs for I/O Interfacing					
1	I/O Interfacing					
1	Development Platforms					
1	Programming for Embedded Systems					
	1. Introduction 2. Design of Embedded Systems					
-	Course Outline					
	課程大綱					
圖力						
Н	Ability of bearing the social responsibilities being among information professionals	0				
	局負資訊人社會責任能力					
G	瞭解資訊科技多元影響能力 Ability to understand information technology's multiple influences	•				
F	資通訊科技問題解決能力 F Ability of problem solving regarding information and communication technology ■ ■ ■ ■ ■ ■ ■ ■ ■					
Е	E 图除合作溝通協調能力 Ability of teamwork, communication, and coordination					
D	資訊系統應用設計開發能力 Ability of information application system design and development	0				
С	C 資訊工具整合運用能力 Ability of integrated applications of information technology					
В	Ability of validate experimental result validation in information science field	•				
	實驗驗證資訊科學能力					