

朝陽科技大學 099學年度第2學期教學大綱  
Embedded System Overview 嵌入式系統概論

當期課號	2540	Course Number	2540
授課教師	陳德超	Instructor	CHEN,TE CHAU
中文課名	嵌入式系統概論	Course Name	Embedded System Overview
開課單位	資訊與通訊系(四日)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	"1.使學生了解嵌入式系統運作原理(知識) 2.能具備嵌入式系統軟體與硬體之設計能力(技能) 3.能具備嵌入式系統從業人員之專業態度(態度) 4.能瞭解嵌入式系統產業之市場及其發展情形(其他)"	Objectives	"1.This course provides the students to be familiar with the fundamental principles of the Embedded system 2.This course provides the students with the ability of the design of the software and hardware of the Embedded system 3.This course provides the students the attitude to be a professional designer of the Embedded system. 4.This course provides the students to understand the market and the development of the Embedded system"
教材	1-LINUX核心開發與實務-XScale PXA270, 江元新著, 長高科技 2-DMA-PXA270L開發平台使用手冊	Teaching Materials	"Linux kernel and practice: XScale PXA270", Dmatek Coporation (長高科技) DMA-PXA270L User guide
成績評量方式	期中考30% 期末考30% 上機練習及出席成績 40%	Grading	Midterm 30% Final 30% On line and Attendance 40%
教師網頁	-		
教學內容	1. 介紹嵌入式系統的基本架構 2. 開發環境與開發流程介紹 3. 開發訓練平台的介紹與操作 4. 嵌入式LINUX 5. DMA-PXA270L硬體使用說明 6. DMA-PXA270L軟體資源 7. 各種基本實驗實習	Syllabus	1. Introduction to the embedded system basic concepts. 2. Introduction to the IDE and Platform. 3. Operations and developments of embedded systems. 4. Embedded LINUX. 5. DMA-PXA270L hardware. 6. DMA-PXA270L software. 7. The experiments.

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