朝陽科技大學 096學年度第1學期教學大綱
Embedded System Overview 嵌入式系統概論

當期課號	3849	Course Number	3849
授課教師	陳宏達	Instructor	CHEN,HON DA
中文課名	嵌入式系統概論	Course Name	Embedded System Overview
開課單位	資訊工程系(四進)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	提供基本嵌入式軟硬體基本概念，包含軟體開發環境、系統硬體架構、嵌入式作業系統。	Objectives	The course aims at providing basic embedded software/hardware trainings for students. The topics covered in this course include embedded software development tool chain, system architecture, and embedded operating system.
教材	Lecture Note	Teaching Materials	Lecture Note
成績評量方式	1. 期中考: 20% 2. 期末考20% 3. 其他: 60% (含學習態度、作業、小考、報告)	Grading	1. Midterm exam. : 20% 2. Final exam. :20% 3. Others(learning attitude, homework, quiz, report..): 60%
教師網頁	http://ip78.csie.cyut.edu.tw		
教學內容	本課程主要目標在於訓練學生對於嵌入式開發的能力，培養嵌入式系統開發的高階人才。課程的教授重點主要分爲下列幾個階段： 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. CPU指令集介紹與操作 5. 嵌入式作業系統開發環境介紹與操作 6. 嵌入式應用程式設計 7. 各種基本實驗實習	Syllabus	The goal of this course is to introduce the concepts of embedded systems including embedded system OS, embedded system platform, embedded IDE. In addition, this course also makes students have the ability of embedded system programming, embedded system programming. In the following, we list the purposes of this course: 1. Introduction to the basic concepts . 2. Introduction to the IDE and Platform. 3. Operations and developments of embedded systems. 4. Introduction to the ISA of embedded CPU. 5. Introduction to the embedded OS. 6. Embedded system programming. 7. The experiments.

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