朝陽科技大學 096學年度第2學期教學大綱
Assembly Language 組合語言

當期課號	2337	Course Number	2337
授課教師	楊伏夷	Instructor	YANG,FUW YI
中文課名	組合語言	Course Name	Assembly Language
開課單位	資訊工程系(四日)一A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	本課程主要講述可程式8051組合語言的基本原理。並利用專題實作的過程，體驗整個單晶片系統的設計流程。學生在完成本課程後，將可學習到以下之基本技能：1. 8051組合語言的基本語法、2. 8051微處理器之基本架構、3. 程式寫作技巧與專題實作。	Objectives	The goal of this course is to provide the students with a basic knowledge of 8051 processor design. By giving appropriate project assignments, the course helps the students experience the whole single chip system design flow. After finishing this course, the students may learn the following: 1. syntax for 8051 assembly language, 2. the architecture of the 8051 processor, and 3. projects implementation and skills of assembly programming.
教材	1. The 8051 Microcontroller and Embedded Systems using Assembly and C (全華書局,作者M. A. Mazidi, J. G. Mazidi, and R. D. Mckinlay) 2. 單晶片 8051 Keil C 實作入門(文魁書局,作者陳明熒) 3. The 8051 Microcontroller(滄海書局,作者 K. Ayala)	Teaching Materials	1. The 8051 Microcontroller and Embedded Systems using Assembly and C (全華書局,作者M. A. Mazidi, J. G. Mazidi, and R. D. Mckinlay) 2. 單晶片 8051 Keil C 實作入門(文魁書局,作者陳明熒) 3. The 8051 Microcontroller(滄海書局,作者 K. Ayala)
成績評量方式	1.期中考試30% 2.實作成品30% 3.平常作業與上課出席40%	Grading	1. Midterm Exam. : 30% 2. Project.: 30% 3. Homework & Participation : 40%
教師網頁			
教學內容	1. The 8051 microcontroller 2. 8051 assembly language programming 3. Jump, loop, and call instructions 4. I/O port programming 5. Addressing modes 6. Arithmetic & logic instructions and programs 7. 8051 hardware connection and INTEL hex file 8. Timer programming 9. Interrupts programming 10 LCD and keyboard programming 11. Stepper motor interfacing	Syllabus	1. The 8051 microcontroller 2. 8051 assembly language programming 3. Jump, loop, and call instructions 4. I/O port programming 5. Addressing modes 6. Arithmetic & logic instructions and programs 7. 8051 hardware connection and INTEL hex file 8. Timer programming 9. Interrupts programming 10 LCD and keyboard programming 11. Stepper motor interfacing

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