朝陽科技大學 097學年度第2學期教學大綱
Electronic Circuits 電子電路

當期課號	2650	Course Number	2650
授課教師	張原豪	Instructor	CHANG,YUEN HAW
中文課名	電子電路	Course Name	Electronic Circuits
開課單位	資訊工程系(四日)二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程的主要目的要讓學習者瞭解電子電路的基本分析與設計概念，包含以下內容：頻率響應分析、差動放大器、電流鏡、振盪器分析、回授電路、濾波器分析、功率放大器、CMOS邏輯族電路。	Objectives	The objective of this course is to develop a comprehensive understanding of the basic concepts involving the design and analysis of electronic circuits. The course outline is as follows：Frequency Response, Differential Amplifier, Current Mirror, Oscillator Circuit, Feedback Circuits, Filter, Power Amplifier and CMOS Logic Families.
教材	1. Fundamentals of Electronic Circuit Analysis and Design, Niemann, Donald A.Neamen, 1st, McGraw-Hill 2. Microelectronics, J. Millman, 2nd, McGraw-Hill. 3. Microelectric Circuits, S. Smith, 4th, Oxford.	Teaching Materials	1. Fundamentals of Electronic Circuit Analysis and Design, Niemann, Donald A.Neamen, 1st, McGraw-Hill 2. Microelectronics, J. Millman, 2nd, McGraw-Hill. 3. Microelectric Circuits, S. Smith, 4th, Oxford.
成績評量方式	1. 期中末考: 各20% 2. 平時小考: 40% 3. 平時作業: 10% 4. 出席情形: 10%	Grading	1. Midterm 20%, Final 20% 2. Quiz: 40% 3. Homework: 10% 4. Attitute: 10%
教師網頁			
教學內容	1. 針對電子電路初階課程內容,採中慢速度講述教學.由於本課程爲研究所考試科目之一,故擬以升學考試爲其目標,進行課程內容總整理.計算題實際演練...等方式實施之. 2. 本學期所進行之期中及期末考題,擬參考各大學考古題爲主軸出題,以培養同學未來升學實戰之能力. 3. 主要爲接續電子學後面的內容:頻率響應,震盪器與濾波器,回授電路,數位CMOS LSI...等	Syllabus	1. Introduction to fundamental concept of Microelectronics. Since this is one of courses for graduate schools, our teaching goal is to enhance students' analysis ability of electrical circuit. 2. The styles of Midterm/Final exam. refer to the graduate entrance exam. 3.Main contents: frequency response, oscillator and filter, feedback, digital CMOS LSI...etc.

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