朝陽科技大學 095學年度第2學期教學大綱
Electronics 電子學

當期課號	2312	Course Number	2312
授課教師	吳行立	Instructor	Wu,Shing Lih
中文課名	電子學	Course Name	Electronics
開課單位	資訊工程系(四日)一C	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	1. 針對電子電路初階課程內容,採中慢速度講述教學. 2. 由於本課程爲研究所考科之一,故擬以升學考試爲其目標,進行計算題實際演練方式實施之. 3. 本學期所進行之期中/期末考題,參考各大學考古題出題,以培養同學未來升學實戰之能力. 4.內容:基本電學與電路學,二極體及其應用電路,雙極介面電晶體及其應用電路,運算放大器及其應用電路,金氧半場效電晶體及其應用電路.	Objectives	1. Introduction to the fundamental concept of Microelectronics(midium-speed teaching). 2. Since it is one of graduate entrance courses, our teaching goal is to enhance the analysis ability of electrical circuit. 3. The styles of Midterm/Final exam. refer to the graduate entrance exam. 4.Content: some basic concepts about electronic circuits, diodes and application, BJTs and application, OP Amplifiers and application, MOSFETs and application.
教材	Fundamentals of Electronic Circuit Analysis and Design	Teaching Materials	
成績評量方式	期中考20%,期末考20%,作業30%,平時測驗30%	Grading	Midterm Exam 20% Final Exam20%Homeworks 30% Quizzes30%
教師網頁	_		
教學內容	本課程概括下列部分： 1.半導體元件及基本應用 2.二極體電路 3.雙極電晶體 4.基本雙極電晶體放大器 5.場效電晶體 6.基本場效電晶體方大器 7.頻率響應 8.基本電子電路 9.理想操作放大器 10.積體電路 11.差動及多級放大器 12.回授及穩定度 13.類比積體電路	Syllabus	This course includes the following topics: 1.Semiconductor Materials and Diodes 2.Diode Circuits 3.The Bipolar Junction Transistor 4.Basic BJT Amplifiers 5.The Fieod-Effect Transistor 6.Basic FET Amplifiers 7.Frequency Response 8.The Idel Operational Amplifier 9.Integrated Circuit Biasing and Active Loads 10.Differential and Multistage Amplifiers 11.Feedback and Stability 12.Operational Amplifier Circuits 13.Nonideal Effects in Operational Amplifier Circuits

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