朝陽科技大學 099學年度第2學期教學大綱
Electronic Circuits Lab. 電子電路實習

當期課號	2532	Course Number	2532
授課教師	林進發	Instructor	
中文課名	電子電路實習	Course Name	Electronic Circuits Lab.
開課單位	資訊與通訊系(四日)二B	Department	
修習別	必修	Required/Elective	Required
學分數	1	Credits	1
課程目標	"本課程主要教導學生們去建構基本的電子電路，其中課程主題大致如下： 1. RLC電路之暫態與穩態分析 2.二極體與整流電路 3.全波整流 4.BJT電路之直流分析 5.BJT放大器電路分析 "	Objectives	"This course is aimed to teach students to establish fundamentals of electronic circuits. The topics of this course are described as follows. 1. Steady state and transient analysis of RLC circuits 2. Functional test of diode, rectifier circuits 3. Full-wave rectifier 4. DC analysis of BJT circuits 5. Amplifier analysis of BJT circuits "
教材	1. 課程投影片 2. 教科書：Sedra and Smith,Microelectronic Circuits,5th edition,台北圖書代理	Teaching Materials	1. Lecture notes 2. Main Textbook: Sedra and Smith,Microelectronic Circuits,5th edition
成績評量方式	1.期中考(30%) 2.期末考(30%) 3.小考(20%) 4.作業(10%) 5.出席率(10%)	Grading	1. Midterm Exam (30%) 2. Final Exam (30%) 3. Quiz (20%) 4. Homework (10%) 5. Attendance (10%)
教師網頁	http://www.cyut.edu.tw/~jflin/		
教學內容	本課程是教導學生進階的電子電路原理。要達成這目標，學生將學習： 1. 場效電晶體結構與設計。 2. 場效電晶體交流分析。 3. 差動放大器原理。 4. 運算放大器介紹與應用。 5. 正回授與負回授。 6. 頻率響應	Syllabus	The goal of this course is to provide students with an advanced knowledge of the electronic circuits. To achieve the goal, students will learn 1. Introduction to FET structure and basic operation. 2. FET characteristics and parameters 3. Differential amplifier. 4. OP amplifier (OPA) applications. 5. Positive feedback / negative feedback. 6. Frequency response