朝陽科技大學 096學年度第1學期教學大綱
Electronic Circuits 電子電路

當期課號	2402	**Course Number**	2402
授課教師	廖梨君	**Instructor**	LIAO,LI CHUN
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] Thomas L. Floyd,"Electronics Fundamentals: Circuits, Devices, and Applications", 7th edition, Pearson Education International. ISBN: 0-13-199585-5. [2] Supply in the course.	**Teaching Materials**	[1] Thomas L. Floyd,"Electronics Fundamentals: Circuits, Devices, and Applications", 7th edition, Pearson Education International. ISBN: 0-13-199585-5. [2] Supply in the course.
成績評量方式	[1] 期中考: 25% [2] 期末考: 25% [3] 平時測驗: 30% [4] 報告: 10% [5] 出席: 10%	**Grading**	[1] Midterm Exam: 25% [2] Final Exam: 25% [3] Quiz: 30% [4] Project Report: 10% [5] Attendance: 10%
教師網頁			
教學內容	1. DC circuit 2. AC circuit a. RLC circuit and resonance b. Analysis and design for filter c. Transformer 3. Devices a. Diodes and apllications b. Transistors and applications c. The operational amplifier d. Basic Op-Amp circuit 4. Conversion and control	**Syllabus**	1. DC circuit 2. AC circuit a. RLC circuit and resonance b. Analysis and design for filter c. Transformer 3. Devices a. Diodes and apllications b. Transistors and applications c. The operational amplifier d. Basic Op-Amp circuit 4. Conversion and control

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