# 朝陽科技大學 098學年度第2學期教學大綱
# Electronics 電子學

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| 當期課號 | 2770 | Course Number | 2770 |
| 授課教師 | 劉省宏 | Instructor | LIU,SHING HONG |
| 中文課名 | 電子學 | Course Name | Electronics |
| 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 | 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 | 微電子電路 (上) v:5<br>台北圖書 | Teaching Materials | Microelectronic Circuits "Fifth"<br>Sedra Smith |
| 成績評量方式 | 1. 期中和期末各30%<br>2. 小考和作業外加出席率40% | Grading | 1. Midterm/ final exam: 30% respectively.<br>2. Home work, test, and learning attitute 40% |
| 教師網頁 | | | |
| 教學內容 | 1.4 放大器<br>1.5 放大器電路模型<br>3.1 理想二極體<br>3.3 二極體順偏特性<br>3.4 反偏崩潰<br>3.5 整流電路<br>3.6 限制和箝位電路<br>4.1 MOSFET元件結構<br>4.2 電流-電壓特性<br>4.5 直流偏壓<br>4.6 小訊號模型<br>4.10 CMOS數位邏輯<br>4.11 空乏型MOSFET<br>5.1 BJT元件結構<br>5.2 電流-電壓特性<br>5.4 直流偏壓<br>5.5 小訊號模型 | Syllabus | Chapter 1 Introduction electronic circuits<br>Chapter 3 Diode<br>Chapter 4 MOSFET<br>Chapter 5 BJT |

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