

朝陽科技大學 098學年度第1學期教學大綱  
Communication System 通訊系統

當期課號	2917	Course Number	2917
授課教師	沈文和	Instructor	SHEEN,WERN HO
中文課名	通訊系統	Course Name	Communication System
開課單位	資訊與通訊系(四日)三A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	本課程旨在介紹類比通訊的基本理論以及實際系統。以「訊號與系統」課程所學為基礎，訓練學生熟悉振幅、相位、頻率等調變技術的工作原理，並以現有類比通訊系統為例子介紹如何應用基本理論於實際系統設計中。	Objectives	The objective of this course is to introduce students the fundamentals of analog communication and the existing analog communication systems. In particular, based on what was learned from the course of Signal and Systems, this course will familiarize students the working principles of amplitude modulation, phase modulation and frequency modulation. In addition, using in-use analog systems as examples, the course will introduce students how basic principles can be applied in the design of practical systems.
教材	J.G. Proakis and M. Salehi, Essentials of Communication Systems Engineering, Pearson Education, 2005.	Teaching Materials	J.G. Proakis and M. Salehi, Essentials of Communication Systems Engineering, Pearson Education, 2005.
成績評量方式	1. 作業 (15%) 2. 期中考 (40%) 3. 期末考 (45%)	Grading	1. Homeworks (15%) 2. Midterm (40%) 3. Final (45%)
教師網頁	-		
教學內容	1. 通訊系統簡介 2. 訊號與線性系統 3. 振幅調變技術 4. 相角調變技術 5. 機率與隨機過程 6. 雜訊對類比通訊系統之影響	Syllabus	1. Introduction to Communication Systems 2. Signal and Linear Systems 3. Amplitude Modulation 4. Angle Modulation 5. Probability and Random Processes 6. Effect of Noise on Analog Communication Systems

尊重智慧財產權，請勿非法影印。