# 朝陽科技大學 096學年度第1學期教學大綱
# Digital Communications 數位通訊

| | | | |
|---|---|---|---|
| 當期課號 | 7432 | Course Number | 7432 |
| 授課教師 | 黃永發 | Instructor | HUANG,YUNG FA |
| 中文課名 | 數位通訊 | Course Name | Digital Communications |
| 開課單位 | 網路與通訊研究所碩士班一A | Department | |
| 修習別 | 選修 | Required/Elective | Elective |
| 學分數 | 3 | Credits | 3 |
| 課程目標 | 本課程提供了大致上的概念關於通訊理論以及這個領域的基礎觀念。在復習過訊號與系統的表示之後，分析不同的連續與數位調變機制。並且提及到展頻系統與它的應用到多使用者通訊上。高等通訊系統的敘述以及有線及區域網路的一般概念介紹。 | Objectives | Tentative topics covered in this course include digital image fundamentals, mathematical preliminaries of two-dimensional systems, image transforms, human perception, color basics, sampling and quantization, compression techniques, image enhancement, image restoration, image reconstruction from projections, and binary image processing. |
| 教材 | 1.Digital Communications, by B. Sklar, Printice Hall, 2002.<br>2.Introduction to Digital Communications,by Michael B. Pursley, Printice Hall, 2005. | Teaching Materials | 1.Digital Communications, by B. Sklar, Printice Hall, 2002.<br>2.Introduction to Digital Communications,by Michael B. Pursley, Printice Hall, 2005. |
| 成績評量方式 | Midterm 30%<br>Final 30%<br>Homeworks & Project 40% | Grading | Midterm 30%<br>Final 30%<br>Homeworks & Project 40% |
| 教師網頁 | http://www.cyut.edu.tw/~yfahuang | | |
| 教學內容 | This course provides a general overview of communication theory and addresses fundamental concepts in this field. After a review of signals and systems representations, various continuous and digital modulation schemes are analyzed. Spread spectrum systems and their application to multiuser communications are also addressed. Advanced communication systems are described and general concepts of wide and local area networks are introduced. | Syllabus | This course provides a general overview of communication theory and addresses fundamental concepts in this field. After a review of signals and systems representations, various continuous and digital modulation schemes are analyzed. Spread spectrum systems and their application to multiuser communications are also addressed. Advanced communication systems are described and general concepts of wide and local area networks are introduced. |

尊重智慧財產權，請勿非法影印。