

朝陽科技大學 093學年度第2學期教學大綱
Source Coding 編碼理論

當期課號	7279	Course Number	7279
授課教師	楊政穎	Instructor	YANG, CHENG YING
中文課名	編碼理論	Course Name	Source Coding
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	資訊理論與通道理論包含在此課程中。主要重點為平均資料量（熵）、資訊編碼技術、不失真壓縮、編碼率-失真理論、損失壓縮、通道編碼方法、區塊碼與迴旋碼。	Objectives	This course provides the knowledge of error control coding scheme. The contents of this course are Finite fields, linear block codes, Cyclic codes, Convolutional codes, Trellis coded modulation, Burst error correcting codes and Turbo codes
教材	Applied Coding and Information Theory for Engineers by Richard B. Wells, Prentice Hall, 1999.	Teaching Materials	
成績評量方式	Participation and Homework 20% Midterm I, II 20% Final 40%	Grading	Participation and Homework 20% Midterm I, II 20% Final 40%
教師網頁	-		
教學內容	The goal of this course is to help students started in the practice of information Engineering. It concludes the fundamental information theory such as source coding and channel coding. In the source coding part, the concept of source entropy, channel capacity and Markov process are included. Forward Error Control (FEC) coding is given as the channel coding part.	Syllabus	The goal of this course is to help students started in the practice of information Engineering. It concludes the fundamental information theory such as source coding and channel coding. In the source coding part, the concept of source entropy, channel capacity and Markov process are included. Forward Error Control (FEC) coding is given as the channel coding part.

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