朝陽科技大學 093學年度第1學期教學大綱
Cryptography 密碼學

當期課號	7257	Course Number	7257
授課教師		Instructor	
中文課名	密碼學	Course Name	Cryptography
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	此課程將教導學生了解近代密碼學的發展，主題包括加密演算法、資料完整性、認證和身份識別、數位簽章、數論、密碼協定以及真實世界使用的安全系統，例如: RSA。我們也會選擇一些相關的論文來研讀並於課堂上討論	Objectives	This course is aimed to introduce students to a broad exposure to advanced operating systems topics. Topics to be discussed in the course include protection, security, memory management, operating system kernels, file systems, synchronization, naming, and distributed systems.
教材	Ranjan Bose, Information Theory Coding and Cryptography, Tata McGraw Hill, 2002.	Teaching Materials	
成績評量方式		Grading	Midterm 30% Final 30% Project (including report) 20% Report, Assignment: 20%
教師網頁			
教學內容	(英文授課)	Syllabus	1. Overview of Digital Communication System 2. Quantization and Source Coding, Huffman Coding 3. Markov Processing and Predictive Encoder 4. Entropy and Shannon First theorem 5. Coding and Modulation Trade-off 6. Error Control coding – Memoryless coding 7. Error Control coding – Convolutional codes