

朝陽科技大學 094學年度第2學期教學大綱
Spread Spectrum Communication 展頻通訊

當期課號	7231	Course Number	7231
授課教師	黃永發	Instructor	HUANG,YUNG FA
中文課名	展頻通訊	Course Name	Spread Spectrum Communication
開課單位	網路與通訊研究所碩士班二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程描述現代化通訊在多重存取取的技術，內容有(1)簡介(2)基本多重存取取的技術(3)展頻技術的基本原理(4)直接序列展頻(5)跳頻展頻(6)展頻技術的應用(7)展頻通訊效能的分析(8)CDMA的基本觀念(9)CDMA系統的效能。	Objectives	The modern communication in multiple access technology is presented in this course. The contents are (1)Introduction,(2)Basic multiple access spectrum,
教材	1.Single and Multi-Carrier DS-CDMA: Multiuser Detection, Space-Time Spreading, Synchronisation, Henzo, Yang, Kuan and Yen, John Wiley & Sons, 2003. 2.Theory of Code Division Multiple Access Communication, K. Sh. Zigangirov, John Wiley & Sons, 2004. 3.Introduction to Spread Spectrum Communications, R. L. Peterson, R. E. Ziemer and D. E. Borth, NJ: Prentice-Hall, 1995. 4.Principles of Spread Spectrum Communication, A. J. Viterbi, Addison-Wesley, 1995.	Teaching Materials	1.Single and Multi-Carrier DS-CDMA: Multiuser Detection, Space-Time Spreading, Synchronisation, Henzo, Yang, Kuan and Yen, John Wiley & Sons, 2003. 2.Theory of Code Division Multiple Access Communication, K. Sh. Zigangirov, John Wiley & Sons, 2004. 3.Introduction to Spread Spectrum Communications, R. L. Peterson, R. E. Ziemer and D. E. Borth, NJ: Prentice-Hall, 1995. 4.Principles of Spread Spectrum Communication, A. J. Viterbi, Addison-Wesley, 1995.
成績評量方式	Midterm 30% Homeworks 30% Final Reports 40%	Grading	Midterm 30% Homeworks 30% Final Reports 40%
教師網頁	http://www.cyut.edu.tw/~yfahuang		
教學內容	This course provides a general overview of spread spectrum systems and their application to multiuser communications are also addressed. The outlines include the followings. 1. Introduction to spread spectrum communications. 2. Spreading sequences. 3. Code tracking and synchronization of receiver spreading 4.Code division multiple access systems. 5. Multi-carrier CDMA systems. 6.Hybrid multiple access schemes. 7. Applications.	Syllabus	This course provides a general overview of spread spectrum systems and their application to multiuser communications are also addressed. The outlines include the followings. 1. Introduction to spread spectrum communications. 2. Spreading sequences. 3. Code tracking and synchronization of receiver spreading. 4.Code division multiple access systems. 5. Multi-carrier CDMA systems. 6.Hybrid multiple access schemes. 7. Applications.

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