朝陽科技大學 096學年度第2學期教學大綱
Network Voice Phone Systems 網路語音電話系統

當期課號	7428	Course Number	7428
授課教師	張林煌	Instructor	CHANG,LIN HUANG
中文課名	網路語音電話系統	Course Name	Network Voice Phone Systems
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	此課程將討論網路語音電話(VoIP)系統及其相關議題。一些實作的主題，如實作RTP、SIP及MGCP模擬程式將會當作課程示範及作業練習以幫助學生更進一步了解網路語音電話系統之原理與應用。	Objectives	This course will discuss the Voice over Internet Protocol (VoIP) issue and related topics. Some hands on experiment, such as implementing RTP, SIP as well as MGCP simulation program, will be conducted to help students to understand the VoIP principle and applications.
教材	Carrier Grade Voice over IP," D. Collins, McGraw-Hill, Second Edition, 2003	Teaching Materials	Carrier Grade Voice over IP," D. Collins, McGraw-Hill, Second Edition, 2003
成績評量方式	Homework x 3 30% Mid-term exam 25% Final exam 25% Term project 20%	Grading	Homework x 3 30% Mid-term exam 25% Final exam 25% Term project 20%
教師網頁	http://www.ntcu.edu.tw/~lchang		
教學內容	1. Introduction 2. Transporting Voice by Using IP 3. Speech-Coding Techniques (Optional) 4. H.323 5. Session Initiation Protocol (SIP) and ENUM 6. SIP over Network Address Translation (NAT) 7. Media Gateway Control and the Softswitch Architecture 8. VoIP and SS7 9. Quality of Service 10. Designing a Voice over IP Network	Syllabus	1. Introduction 2. Transporting Voice by Using IP 3. Speech-Coding Techniques (Optional) 4. H.323 5. Session Initiation Protocol (SIP) and ENUM 6. SIP over Network Address Translation (NAT) 7. Media Gateway Control and the Softswitch Architecture 8. VoIP and SS7 9. Quality of Service 10. Designing a Voice over IP Network

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