

朝陽科技大學 094學年度第2學期教學大綱
Network Voice Phone Systems 網路語音電話系統

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| 當期課號 | 7226 | Course Number | 7226 |
| 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 | |
| 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.cyut.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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