# 朝陽科技大學 096學年度第1學期教學大綱
# Advanced Computer Networks 高等電腦網路

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| 當期課號 | 7453 | Course Number | 7453 |
| 授課教師 | 張林煌 | Instructor | CHANG,LIN HUANG |
| 中文課名 | 高等電腦網路 | Course Name | Advanced Computer Networks |
| 開課單位 | 資訊科技研究所博士班一A | Department | |
| 修習別 | 選修 | Required/Elective | Elective |
| 學分數 | 3 | Credits | 3 |
| 課程目標 | 這個課程爲研究所的基礎課程，其主要目的爲設計來教導學生基本的電腦網路以及資料通訊概念。除此之外。進階的網路技術以及研究主題諸如ATM高速網路、擁塞控制、連接層控制、TCP連線擁塞及流量控制、路由協定也將在本課程中被討論 | Objectives | This course will provide an up-to-date survey of current developments in high speed networks. We will cover the multimedia, congestion control, and QoS issues based on the Internet Protocol, the entire TCP/IP protocol suite, and ATM networks. |
| 教材 | Internetworking with TCP/IP Volume I: Principles, Protocols and Architectures, 4th edition, D. Comer, 2000, Prentice Hall<br>TCP/IP Protocol Suite, 3/e by Behrouz A. Forouzan, 2006<br>High-Speed Networks and Internets, 2nd editon, W. Stallings, 2002, Prentice Hall | Teaching Materials | Internetworking with TCP/IP Volume I: Principles, Protocols and Architectures, 4th edition, D. Comer, 2000, Prentice Hall<br>TCP/IP Protocol Suite, 3/e by Behrouz A. Forouzan, 2006<br>High-Speed Networks and Internets, 2nd editon, W. Stallings, 2002, Prentice Hall |
| 成績評量方式 | Midterm 30%, Final exam 30%, Final project 40% | Grading | Midterm 30%, Final exam 30%, Final project 40% |
| 教師網頁 | www.cyut.edu.tw/~lchang | | |
| 教學內容 | This course will provide an up-to-date survey of developments in Advanced Computer Network issues. Based on the Internet Protocol and the entire TCP/IP protocol suite, some research topics, such as IPv6, NAT, VPN and Linux Network Programming, will be discussed. Some hand-on experiment will be conducted to help understand the network mechanism. | Syllabus | This course will provide an up-to-date survey of developments in Advanced Computer Network issues. Based on the Internet Protocol and the entire TCP/IP protocol suite, some research topics, such as IPv6, NAT, VPN and Linux Network Programming, will be discussed. Some hand-on experiment will be conducted to help understand the network mechanism. |

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