朝陽科技大學 097學年度第1學期教學大綱
Advanced Computer Networks 高等電腦網路

當期課號	7446	**Course Number**	7446
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	這個課程為研究所的基礎課程，其主要目的為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 TCP/IP Protocol Suite, 3/e by Behrouz A. Forouzan, 2006 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 TCP/IP Protocol Suite, 3/e by Behrouz A. Forouzan, 2006 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.