

朝陽科技大學 099學年度第2學期教學大綱
Introduction to Algorithm 演算法概論

當期課號	2536	Course Number	2536
授課教師	周健平	Instructor	CHOU,CHIEN PING
中文課名	演算法概論	Course Name	Introduction to Algorithm
開課單位	資訊與通訊系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程主要介紹演算法的設計與觀念	Objectives	This course investigates several important algorithm topics.
教材	R.C.T. Lee,R.C. Chang, S.S. Tseng, Y.T.Tsai, Introduction to the Design and Analysis of Algorithms: A strategic approach, McGraw Hill, 2005. (旗標圖書代理)	Teaching Materials	R.C.T. Lee,R.C. Chang, S.S. Tseng, Y.T.Tsai, Introduction to the Design and Analysis of Algorithms: A strategic approach, McGraw Hill, 2005.
成績評量方式	1. 作業:20% 2. 期中考:35% 3. 期末考:35% 4. 課程參與:10%	Grading	1. Homeworks: 20% 2. Midterm Exam: 35% 3. Final Exam: 35% 4. Participation: 10%
教師網頁	http://www.cs.nchu.edu.tw/~phd9402/		
教學內容	(1) 演算法簡介 (2) 演算法的複雜度及問題的下限 (3) 貪婪方法 (4) 各個擊破法的策略 (5) 搜尋樹策略 (6) 修剪搜尋策略 (7) 動態規劃 (8) NP-complete理論 (9) 近似演算法 (10)分期償還分析	Syllabus	(1) Introduction to Algorithm (2) The Complexity of Algorithms and Lower Bounds of Problems (3) The Greedy Method (4) The Divide-and-conquer Strategy (5) Tree Searching Strategies (6) Prune-and-Search Strategy (7) Dynamic Programming (8) The Theory of NPcomplete (9) Approximation Algorithms (10)Amortized analysis

尊重智慧財產權，請勿非法影印。