

朝陽科技大學 099學年度第1學期教學大綱
Algorithms 演算法

當期課號	7471	Course Number	7471
授課教師	李朱慧	Instructor	LEE,CHU HUI
中文課名	演算法	Course Name	Algorithms
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	<p>本課程主要介紹演算法的設計與觀念，主要涵蓋的範圍有：</p> <ol style="list-style-type: none"> 1.演算法的複雜度與計算下限的方法. 2.NP-Complete的問題. 3.貪婪方法的介紹. 4.Divide-and-conquer的方法. 5.搜尋的方法. 6.Prune-and-search的策略. 7.動態規劃. 8.逼近演算法. 	Objectives	<p>This course investigates several important algorithm topics. The covered issues in this course includes</p> <ol style="list-style-type: none"> 1.Complexity of algorithms and lower bounds of problems. 2.NP-complete. 3.Greedy method. 4.Divide-and-conquer. 5.Tree searching strategies. 6.Prune-and-search strategy. 7.Dynamic programming.
教材	<p>Introduction to the Design and Analysis of Algorithm, a strategic approach R.C.T. Lee, S.S. Tseng, R.C. Chang and Y.T. Tsai</p>	Teaching Materials	<p>Introduction to the Design and Analysis of Algorithm, a strategic approach R.C.T. Lee, S.S. Tseng, R.C. Chang and Y.T. Tsai</p>
成績評量方式	<p>期中考: 30 分 期末考: 30 分 作業與平時成績: 40 分</p>	Grading	<p>Midterm Examination: 30% Final Examination: 30% Homework and Class participation : 30%</p>
教師網頁	www.cyut.edu.tw/~chlee		
教學內容	<ol style="list-style-type: none"> 1.Introduction 2.The complexity of algorithms and the lower bounds of problems 3.The greedy method 4.The divide-and-conquer strategy 5.Tree searching strategies 6.Prune-and-search 7.Dynamic programming 8.The theory of NP-Completeness 	Syllabus	<ol style="list-style-type: none"> 1.Introduction 2.The complexity of algorithms and the lower bounds of problems 3.The greedy method 4.The divide-and-conquer strategy 5.Tree searching strategies 6.Prune-and-search 7.Dynamic programming 8.The theory of NP-Completeness

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