

朝陽科技大學 097學年度第1學期教學大綱
Algorithms 演算法

當期課號	7449	Course Number	7449
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 algorithm, second edition, Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, Clifford stein.</p>	Teaching Materials	<p>Introduction to algorithm, second edition, Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, Clifford stein.</p>
成績評量方式	<p>期中考: 35 分 期末考: 35 分 報告與平時成績: 30 分</p>	Grading	<p>Midterm Examination: 35% Final Examination: 35% 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.The Role of Algorithms in Computing 2.Growth of Functions 3.Recurrences 4.Heapsort 5.Hash Tables 6.Binary Search Trees 7.Dynamic Programming 8.Greedy Algorithms 9.NP-Completeness 	Syllabus	<ol style="list-style-type: none"> 1.The Role of Algorithms in Computing 2.Growth of Functions 3.Recurrences 4.Heapsort 5.Hash Tables 6.Binary Search Trees 7.Dynamic Programming 8.Greedy Algorithms 9.NP-Completeness

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