朝陽科技大學 092學年度第2學期教學大綱
Algorithms 演算法

當期課號	2183	Course Number	2183
授課教師	陳青文	Instructor	CHEN,CHING WEN
中文課名	演算法	Course Name	Algorithms
開課單位	資訊工程系(四日)二A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	本課程主要介紹演算法的基本設計與觀念，學生在完成本課程後，將可了解關於演算法的基本設計理念，其主要涵蓋的範圍有： 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	Objectives	The goal of this course is to provide the students with a basic knowledge of computer algorithm. The covered issues in this course includes 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	slides and lecture notes	Teaching Materials	slides and lecture notes
成績評量方式	期中考30%, 期末考30%, 報告30%, 點名與平常分數10% 	Grading	Middle term:30% Final term: 30% Presentation: 30% Others: 10%
教師網頁			
教學內容	This course investigates several important algorithm topics. The covered issues in this course includes Complexity of algorithms and lower bounds of problems NP-complete Greedy method Divide-and-conquer Tree searching strategies Prune-and-search strategy Dynamic programming Approximation algorithms Amortized analysis Randomized algorithms 	Syllabus	This course investigates several important algorithm topics. The covered issues in this course includes Complexity of algorithms and lower bounds of problems NP-complete Greedy method Divide-and-conquer Tree searching strategies Prune-and-search strategy Dynamic programming Approximation algorithms Amortized analysis Randomized algorithms

尊重智慧財產權，請勿非法影印。