朝陽科技大學 094學年度第2學期教學大綱
Algorithms 演算法

當期課號	2057	**Course Number**	2057
授課教師	陳金鈴	**Instructor**	CHEN,CHIN LING
中文課名	演算法	**Course Name**	Algorithms
開課單位	資訊工程系(四日)三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	書名: Introduction to the design and analysis of algorithms. Fourth Edition 作者: R.C.T. Lee, R.C. Chang, S.S. Tseng and Y.T. Tsai 出版社: 旗標 書號: F7823 參考書籍: T.H.Cormen,C.E.Leiserson,R.L.Rivest and C.Stein, Introduction to Algorithms, 2nd edition, 開發圖書代理.	**Teaching Materials**	
成績評量方式	期中考30%，期末考30%，平時作業40%	**Grading**	Midterm exam 30%, Final exam 30%, exercise 40%
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。