朝陽科技大學 097學年度第2學期教學大綱
Introduction to Algorithm 演算法概論

當期課號	2689	**Course Number**	2689
授課教師	王經篤	**Instructor**	WANG,JING DOO
中文課名	演算法概論	**Course Name**	Introduction to Algorithm
開課單位	資訊工程系(四日)三C	**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設計與觀念，學生在完成本課程後，將可了解關於演算法的設計理念，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 students will realize the following important algorithm topics after finishing this course: 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	http://asia.edu.tw/~jdwang/TeachingCourses/Algorithm/algorithm_97_2_Outline.htm	**Teaching Materials**	http://asia.edu.tw/~jdwang/TeachingCourses/Algorithm/algorithm_97_2_Outline.htm
成績評量方式	平時成績(40%) 期中考(30% 期末考(30%)	**Grading**	
教師網頁	http://asia.edu.tw/~jdwang		
教學內容	Introduction Fundamentals of the Analysis of Algorithm Efficiency Brute Force Divide-and-Conquer Decrease-and-Conquer Middle Exam(期中考) Space and Time Tradeoffs Dynamic Programming Greedy Technique Limitations of Algorithm Power Coping with the Limitations of Algorithm Power Final Exam(期末考)	**Syllabus**	Introduction Fundamentals of the Analysis of Algorithm Efficiency Brute Force Divide-and-Conquer Decrease-and-Conquer Middle Exam(期中考) Space and Time Tradeoffs Dynamic Programming Greedy Technique Limitations of Algorithm Power Coping with the Limitations of Algorithm Power Final Exam(期末考)

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