朝陽科技大學 098學年度第2學期教學大綱
Introduction to Algorithm 演算法概論

當期課號	2901	Course Number	2901
授課教師	許志宇	Instructor	HSU,CHIH YU
中文課名	演算法概論	Course Name	Introduction to Algorithm
開課單位	資訊與通訊系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
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	Objectives	This course investigates several important algorithm topics.
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成績評量方式	計畫報告1 20% 計畫報告2 20% 期末考 30% 期中考 30%	Grading	Project 1 20% Project 2 20% Midterm Exam 30% Final Exam 30%
教師網頁	http://www.cyut.edu.tw/~tccnchsu/		
教學內容	使同學熟悉計算機解決各類問題常使用的解題方法，並習得如何證明該方法的正確性與判斷該方法的優劣及適用性。 Growth of Functions Recurrences Randomized Algorithms Heapsort & Quicksort & quiz(1) Sorting in Linear Time & Medians and Order Statics Spring Break (Elementary Data Structures) Hash Tables & Binary search Trees Red-Black Trees & Augmenting Structures & quiz(2) Midterm Exam Dynamic Programming & Greedy Algorithms Amortized Analysis & B-Trees	Syllabus	Growth of Functions Recurrences Randomized Algorithms Heapsort & Quicksort & quiz(1) Sorting in Linear Time & Medians and Order Statics Spring Break (Elementary Data Structures) Hash Tables & Binary search Trees Red-Black Trees & Augmenting Structures & quiz(2) Midterm Exam Dynamic Programming & Greedy Algorithms Amortized Analysis & B-Trees Binomial Heaps & Fibonacci Heaps Disjoint Sets & Elementary of Graph Algorithms & quiz(3) Minimum Spanning Trees & Single-Source Shortest Path & All-pairs

	Binomial Heaps & Fibonacci Heaps Disjoint Sets & Elementary of Graph Algorithms & quiz(3) Minimum Spanning Trees & Single-Source Shortest Path & All-pairs Shortest Paths Matrix Operations & Polynomials and the FFT String Matching & Computational Biology & quiz(4) Computational Geometry & NP-Complete & Approximate Algorithms Final Exam		Shortest Paths Matrix Operations & Polynomials and the FFT String Matching & Computational Biology & quiz(4) Computational Geometry & NP-Complete & Approximate Algorithms Final Exam

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