

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.
教材	<p>1.Computer Algorithms (Hardcover) ~ Ellis Horowitz Ellis Horowitz (Author) › Visit Amazon's Ellis Horowitz Page Find all the books, read about the author, and more. See search results for this author Are you an author? Learn about Author Central (Author), Sanguthevar Rajasekaran (Author)</p> <p>2.Computer Algorithms C++: C++ and Pseudocode Versions (Hardcover) ~ Ellis Horowitz Ellis Horowitz (Author) › Visit Amazon's Ellis Horowitz Page Find all the books, read about the author, and more. See search results for this author Are you an author? Learn about Author Central (Author), Sartaj Sahni (Author), Sanguthevar Rajasekaran (Author) http://www.pdf-search-engine.com/horowitz-sahni-computer-algorithm-pdf.html http://www.ebookpdf.net/___computer-algorithms-horowitz-and-sahni-rapidshare_ebook_.html</p>	Teaching Materials	<p>1.Computer Algorithms (Hardcover) ~ Ellis Horowitz Ellis Horowitz (Author) › Visit Amazon's Ellis Horowitz Page Find all the books, read about the author, and more. See search results for this author Are you an author? Learn about Author Central (Author), Sanguthevar Rajasekaran (Author)</p> <p>2.Computer Algorithms C++: C++ and Pseudocode Versions (Hardcover) ~ Ellis Horowitz Ellis Horowitz (Author) › Visit Amazon's Ellis Horowitz Page Find all the books, read about the author, and more. See search results for this author Are you an author? Learn about Author Central (Author), Sartaj Sahni (Author), Sanguthevar Rajasekaran (Author) http://www.pdf-search-engine.com/horowitz-sahni-computer-algorithm-pdf.html http://www.ebookpdf.net/___computer-algorithms-horowitz-and-sahni-rapidshare_ebook_.html</p>
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	<p>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。</p> <p>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</p>	Syllabus	<p>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</p>

	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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