

朝陽科技大學 099學年度第2學期教學大綱
Data Structure 資料結構

當期課號	2521	Course Number	2521
授課教師	江茂綸	Instructor	CHIANG,MAO LUN
中文課名	資料結構	Course Name	Data Structure
開課單位	資訊與通訊系(四日)二A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	"本課程是訓練學生能夠了解程式語言中資料的處理及儲存方式。要達成這目標，學生將學習：1. 針對資料的物件能動態的配置和清空記憶體。2. 能夠使用指標或其它方式來建構陣列、堆疊、佇列、串列和樹的結構。3. 能夠創造和維護陣列、堆疊、佇列、串列和樹。4. 圖學理論中重要應用。5. 能夠了解不一樣的排序方法並且互相比較。"	Objectives	"The goal of this course is to trains the students can understand how to store data with how to process data in programming languages. To achieve the goal, students will learn 1. To allocate and free memory dynamically for data objects. 2. To form the structure of arrays, stacks, queues, linked lists, and trees using pointers or other others. 3. To create and manipulate the structures of arrays, stacks, queues, linked lists, and trees. 4. Various important applications of graph theory 5. To understand the various sorting methods and to compare with others."
教材	細談資料結構(第五版)謝樹明/F7801B	Teaching Materials	"Data Structure" Fifth Edition, 謝樹明, EE006131。
成績評量方式	期中考 30%, 作業與小考 30%, 期末考 30%, 平時及出席成績 10%	Grading	mid-term exam 30%, home works and tests 30%, final exam 30%, Participation 10%
教師網頁	http://lms.cit.cyut.edu.tw/2006013		
教學內容	本課程主要介紹幾個重要的主題。其主要涵蓋的範圍有： 1. 基本概念 (Basic Concepts) 2. 陣列 (Arrays) 3. 堆疊與佇列 (Stacks and Queues) 4. 鏈結串列 (Linked Lists) 5. 遞迴 (Recursion) 6. 樹狀結構 (Trees) 7. 排序 (Sorting) 8. 搜尋 (Searching)	Syllabus	This course investigates several important topics. The covered issues in this course includes: 1. Introduction to Data Structure 2. Array 3. Stack and Queue 4. Linear List and Link-List 5. Recursion 6. Tree Structure 7. Sort 8. Search

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