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## ②國玄東華大學

## 課 網 Course Outline

## 資訊工程學系國際組

中文課程名稱 Course Name in Chinese		資料結構實驗					
英文課程名稱 Course Name in English		Lab of Data Structures					
科目代碼 Course Code		CSIEB0230	班 別 Degree	學士班 Bachelor's			
修別 Type		學程 Program	學分數 Credit(s)	1.0	時 數 Hour(s)	1.0	
先修課程 Prerequisite					1		
課程目標							
Course Objectives							
實際練習資料結構設計的精神與要點,增進資料結構實作能力 系教育目標							
系教育目標 Dept.'s Education Objectives							
1	具備學科知識,養成專業技能 Acquire academic knowledge, develop professional skills						
2	學習創新思考,分 Inspire innovati	析解決問題 ve thinking, increase analytical problem solving ability					
3	培養團隊精神,學 Promote teamwork	習溝通合作 spirit, encourage coordination and cooperatio					
4	提昇專業倫理,承擔社會責任 Sublimate professional ethics, engage social responsibility						
1 5 1	涵育人文素養,開拓國際視野 Cultivate humanities, broaden global perspectives						
系專業能力 Basic Learning Outcomes			力相關性 Correlati between ( Objective Dept.'s	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives			
A	A 資訊專業終身學習能力 Profound professional knowledge and skills					•	
В	實驗驗證資訊科學能力 Sound and free spirit; simple and generous quality						
С	資訊工具整合運用能力     Ability to appreciate beauty and think creatively				0		

資訊系統應用設計開發能力 Sense of democracy, the rule of law, and civil responsibility						
團隊合作溝通協調能力 Ability of communication, teamwork, and social practice						
F 資通訊科技問題解決能力 Possess both domestic and global perspectives	0					
瞭解資訊科技多元影響能力 Knowledgeable and possess the quality of humanism						
肩負資訊人社會責任能力 Ability of verbal expression and information organization and application						
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated						
課程大綱						
Course Outline						
Part. 1基本資料結構設計練習 1. 陣列 2. 堆疊與佇列 3. 串列 4. 樹 5. Heaps 6. Graphs  Part. 2基礎程式設計與演算法練習 1. 遞迴程式設計練習 2. 字串處理練習 3. Sorting 4. Searching 5. 基礎圖形演算法練習						
資源需求評估(師資專長之聘任、儀器設備的配合・・・等) Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)						
本系已有相關師資						
課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods						
實際上機練習						
其他						
Miscellaneous						