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②國玄東華大學

課 網 Course Outline

資訊工程學系資工組

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		CSIE21510	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							
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 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,分析解決問 Inspire innovative thinking, increase analytical problem solving ability						
3	培養團隊精神,學習溝通合作 Promote teamw ork spirit, encourage coordination and cooperation						
4	提昇專業倫理、承擔社會責任 Sublimate professional ethics, engage social responsibility						
5	涵育人文素養、開拓國際視野 Cultivate humanities, broaden global perspective						
課程目標 力相關性 系專業能力 Correlat between Basic Learning Outcomes Objective					Course es and Education		
A	資訊專業終身學習能力 Ability of lifetime learning in information profession					•	
В	實驗驗證資訊科學能力 Ability of validate experimental result validation in information science field					•	
С	資訊工具整合運用能力 Ability of integrated applications of information technology				0		

資訊系統應用設計開發能力 D Ability of information ap						
D Ability of information ap development	•					
E 图除合作溝通協調能力 Ability of teamwork, comm	團隊合作溝通協調能力 Ability of teamwork, communication, and coordination					
資通訊科技問題解決能力 F Ability of problem solvin	資通訊科技問題解決能力 Ability of problem solving regarding information and					
communication technolog		J				
	瞭解資訊科技多元影響能力 Ability to understand information technology's multiple influences					
肩負資訊人社會責任能力 H Ability of bearing the social responsibilities being among information professionals						
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated						
課程大綱 Course Outline						
Course Outline						
Part. 1 基本資料結構設計練習						
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						
11. 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						
其他						
Miscellaneous						