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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		程式語言					
英文課程名稱 Course Name in English		Programming Languages					
科目代碼 Course Code		CS1E20400	班 別 學士班 Degree Bachelor's				
修別 Type		學程 Program	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite		程式設計、資料結構					
課程目標 Course Objections							
Course Objectives 介紹程式語言基本觀念、語法、語意、資料型態、語言處理等。							
	系教育目標						
1	Dept.'s Education Objectives 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						
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						
	課程目標與系專業能 力相關性 系專業能力 Correlation between Course					ion Course	
Basic Learning Outcomes			Dept.'s	Objectives and Dept.'s Education Objectives			
A	資訊專業終身學習 Ability of lifet	能力 ime learning in infor	mation profe	ssion		•	
В	實驗驗證資訊科學能力 Ability of validate experimental result validation in information science field					0	
С	資訊工具整合運用 Ability of integ	能力 crated applications of	information	technology		•	

D	資訊系統應用設計開發能力 Ability of information application system design and development	•				
Е	團隊合作溝通協調能力 Ability of teamwork, communication, and coordination	0				
F	資通訊科技問題解決能力 Ability of problem solving regarding information and communication technolog	0				
G	瞭解資訊科技多元影響能力 Ability to understand information technology's multiple influences	0				
Н	肩負資訊人社會責任能力 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						
 Models of Computation History and Families of Programming Languages Formal Syntax Notation Syntax and Grammars Structured Programming Constructs Semantics Data Typesl Parser and Compiler Object-Oriented Languages Functional and Logic Programming Languages Programming Environment and Systems 						
	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.)					
語法分析與編譯器產生器(Parser and Compiler Generators						
課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods						
除了課程作業之外,應隨課程之進行,實際從事一個迷你語言的設計與實作 。對於各種不同類型的語言,學生應嘗試其基本程式寫作,以實際體驗不同 語言的特性。						
其他						

Miscellaneous