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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		數位訊號處理導論					
英文課程名稱 Course Name in English		Introduction to Digital Signal Processing					
科目代碼 Course Code		CSIEB0330	班 別 Degree	學士班 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							
			課程目標				
	Course Objectives						
引導學生進入數位信號處理這個領域,培養數位信號處理的知識與技能。							
To lead students into the field of digital signal processing and cultivate the knowledge and skills of digital signal processing.							
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,分析解決問題						
	Inspire innovative thinking, increase analytical problem solving ability						
3	培養團隊精神,學習溝通合作 Promote teamwork enirit encourage goordination and geoperation						
	Promote teamwork spirit, encourage coordination and cooperation 提昇專業倫理,承擔社會責任						
4		limate professional ethics, engage social responsibility					
5	涵育人文素養,開拓國際視野 Cultivate humanities, broaden global perspectives						
		系專業能力 Basic Learning Out			力相關性 Correlati between C Objective	Course es and Education	
A		資訊專業終身學習能力 bility of lifetime learning in information profession					
В	實驗驗證資訊科學 Ability of valid information scie	late experimental resu	lt validation	in in		\bigcirc	

С	資訊工具整合運用能力 Ability of integrated 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 ■ The system design and development ■ The system design are system design and development ■ The system design and development ■ The system design are system design and development ■ The system design are system design a					
Е	團隊合作溝通協調能力 Ability of teamwork, communication, and coordination					
F	資通訊科技問題解決能力 Ability of problem solving regarding information and communication technology	0				
G	瞭解資訊科技多元影響能力 Ability to understand information technology's multiple influences	•				
Н	肩負資訊人社會責任能力 Ability of bearing the social responsibilities being among information professionals	0				
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated						
課程大綱 Course Outline						
 正弦波Sinusoids 頻譜表示Spectrum Representation 取様和混疊Sampling and Aliasing 有限脈衝響應濾波器FIR Filters 有限脈衝響應濾波器之頻率響應 Freq. Resp. of FIR Filters Z轉換 Z-Transforms 無限脈衝響應濾波器 IIR Filters 						
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.)						
課程要求和教學方式之建議						
Course Requirements and Suggested Teaching Methods						
教學以講授及討論為主,英文能力、及數位信號處理法則將是教學要求重點。 Teaching is mainly lectured and discussed. English proficiency, and digital signal processing principles will be the focus of teaching requirements.						
其他 Miscellaneous						
MISCETTAILEOUS						