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## ②國玄東華大學

## 課 網 Course Outline

## 電機工程學系碩士班國際組

中文課程名稱 Course Name in Chinese		通訊理論與應用					
英文課程名稱 Course Name in English		Communication Theory and Applications					
科目代碼 Course Code		EEM0020	班 別 Degree	碩士班 Master's			
修別 Typ		選修 Elective	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite							
課程目標 Course Objectives							
讓學生在修習此一課程後,能對通訊理論與應用深入的了解,以利研究工作的進行							
系教育目標 Dept.'s Education Objectives							
1	高階人才培育—厚實學生專業知能,培育高階科技人才。 To cultivate talents with advanced professional knowledg						
2	團隊分工領導—落	工領導—落實分工合作觀念,具備領導協調能力。 ain students with teamwork leading ability					
3		練專業實用技術,展現創新研發能力。 ents with creative thinkin					
4	國際視野養成—營造國際宏觀視野,培育全球市場人才。 To educate students with global perspectiv						
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	培育具備電機電子資訊工程等專業技術研發之能力。 To cultivate the research and developing ability of electrical, electronics and information engineering。					•	
В	To cultivate the	B.育系統分析、模擬驗證、實作實現之能力。 o cultivate the advanced ability of analysis, verification and mplementation of systems。   ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■					
С	To train the aux	與硬體實務驗證相互輔題 iliary ability betwee d the verification of	en the utiliza			•	

D	訓練電機電子資訊專業知識與工程實務相互結合運用之能力。 To train the integrate ability between professional EECS	•				
	knowledge and engineering practice					
	落實論文研究之群體討論與團隊合作之互助能力。					
E	To fulfill the research ability in thesis by group discussion	0				
	and teamwork cooperation					
	落實發掘問題、邏輯分析、克服瓶頸與持續學習之能力。					
F	To fulfill the ability of question finding, logical analyzing,					
	bottleneck overcoming and continuous learning					
G	了解學術倫理與智慧財產觀念,掌握國內外產業更迭需求與具備多元專 長之能力。					
	To obtain the ability of multi-specialization and to meet the					
	industry demand as well as to have the ability of academic					
	ethics and concept of intellectual property					
Н	了解國內外市場變化,具備科技英文閱讀溝通與科技論文寫作之能力。					
	To understand the change of global market and to have the					
	ability of reading, conversation and technical writing in					
	English。					
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated						
課程大綱						
Course Outline						
二進位資料傳輸、資訊理論與編碼、通訊通道與傳輸媒介、偵測、錯誤更正						
碼、線性調變理論與系統、系統響應與濾波器、雜訊分析、應用實例。						
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.)						
以具有所開課程專長之教師擔任授課;資料整理所需之電腦、影印機;討論						
所需之投影機、幻燈機等教學設備。						
課程要求和教學方式之建議						
Course Requirements and Suggested Teaching Methods						
以指定教材按預訂進度進行教學。教學以講授及討論為主,必要時以相關文						
獻資料加以補充。						
其他 Miscallaneous						
Miscellaneous						