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②图玄東華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	物聯網			學年/學期 Academic Year/Semester		112/2	
課程名稱(英文) Course Name in English	Internet of Things						
科目代碼 Course Code	EEM0090	系級 Department 碩士 (& Year		開課單位 Course-Offering Department	電機工程學系		
修別 Type	選修 Elective	學分數/時間 Credit(s)/Hour(s)		3.0/3.0			
授課教師 Instructor	/謝長倭						
先修課程 Prerequisite							

課程描述 Course Description

In anticipation, it is hoped that students will acquire a certain level of understanding regarding the Internet of Things (IoT) industry and its development processes, thereby facilitating their future research endeavors and applications in the professional arena.

The objective is to equip students with knowledge pertaining to the IoT sensing layer, network layer, and relevant techniques for data analysis. Given the current societal demand for the growth of IoT, this endeavor aims to stimulate students' motivation to learn technologies associated with the Internet of Things.

課程目標 Course Objectives

本課程旨在介紹一些重要且實用的近代線性系統回授控制理論,主要特點是針對系統狀態空間模型,運用數學方法進行系統性能分析,與回授控制器的設計,內容包括狀態回授、狀態估測與動態輸出回授等相關主題,使能實際的應用 於高精度的馬達控制、機器臂、機器人與無人載具的運動控制。

	系專業能力 Basic Learning Outcomes	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	培育系統分析、模擬驗證、實作實現之能力。To cultivate the advanced ability of analysis, verification and implementation of systems。	•
С	訓練軟體工具使用與硬體實務驗證相互輔助之能力To train the auxiliary ability between the utilization of software tool and the verification of the hardware practice。	•
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	•
Е	落實論文研究之群體討論與團隊合作之互助能力。To fulfill the research ability in thesis by group discussion and teamwork cooperation	0
F	落實發掘問題、邏輯分析、克服瓶頸與持續學習之能力。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。	•
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圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated

授課進度表 Teaching Schedule & Content						
週次Week	內容 Subject/Topics	備註Remarks				
1						
2						
3						
4						
5						
6						
7						
8						
9	期中考試週 Midterm Exam					
10						
11						
12						
13						
14						
15						
16						
17						
18	期末考試週 Final Exam					
	教學策略 Teaching Strategies					
✓ 課堂講	授 Lecture	Field Trip				
其他Mi	scellaneous:					
	教 學 創 新 自 評 Teaching Self-Evaluation					
創新教學(Innovative Teaching)					
問題導向學習(PBL) 團體合作學習(TBL) 解決導向學習(SBL)						
翻轉教	室 Flipped Classroom					
社會責任(Social Responsibility)					
	踐Community Practice 產學合作 Industy-Academia Cooperati	on				
跨域合作(Transdisciplinary Projects)					
■ 跨界教學Transdisciplinary Teaching ■ 跨院系教學Inter-collegiate Teaching						
業師合.	授 Courses Co-taught with Industry Practitioners					
其它 othe	r:					

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	配分比例 Percentage	多元評量方式 Assessments							
Items		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績 General Performance	20%								
期中考成績 Midterm Exam	30%								
期末考成績 Final Exam	30%								
作業成績 Homework and/or Assignments	20%								
其他 Miscellaneous									

評量方式補充說明

Grading & Assessments Supplemental instructions

教科書與參考書目(書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址)
Teaching Aids & Teacher's Website(Including online teaching information.
Personal website can be listed here.)

其他補充說明(Supplemental instructions)