Please consult Intellectual Property Rights before making a photocopy. Please use the textbook of copyrighted edition.

②图玄束華大學

❷ 函互束华大學							
	教导	學計劃表	Sy 1	llabus			
課程名稱(中文) Course Name in Chinese	人工智慧				mester	113/2	
課程名稱(英文) Course Name in English	Artificial Intelligence						
科目代碼 Course Code	BM80600	系級 Department 博士 & Year		開課單位 Course-Offering Department	Course-Offering		
修別 Type	選修 Elective	學分數/時 Credit(s)/Hou		3	3.0/3.0		
授課教師 Instructor	/吳怡菱						
先修課程 Prerequisite							
	課	程描述 Cours	e Descr	iption			
This course introduces var problems, machine learning		_	_		traint sa	atisfaction	
	課	程目標 Cour	se Obje	ctives			
介紹智慧型系統之理論、設計	、實作與應用。						
					課	程目標與系專業能	

	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	培育具備資訊管理相關理論與應用的知識Cultivate the knowledge of information management application	0
В	培育具備邏輯推演、問題解決與獨立研究的能力Cultivate the capability of logical deduction, problem solving and independent research	•
С	培養具備資訊專業知識與技能Cultivate the professional ability and skill regarding information	•
D	培養具備資訊科技與管理領域之知識整合應用能力Cultivate the integrated ability regarding information technology and management	•
Е	培養具備創新思維、領導智能與國際觀的能力Cultivate the ability regarding innovative thinking, leadership and international view	•

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	Course Introduction	
2	Peace Memorial Day	No Class
3	Intelligent Agent and AI tools for research	
4	Graduation Project Proposal of IM in D124	
5	Constraint Satisfaction Problems and Optimization	
6	Solving Problems by Searching and Metaheuristic	

7	Spring Break	No Class				
8	Exam and Questionnaire					
9	期中考試週 Midterm Exam					
10	Neural Network and Deep Learning					
11	11 Convolutional Neural Network and Graph Neural Network					
12	Recurrent Neural Network and Generative Adversarial Network					
13	Reinforcement Learning					
14	Exam and Questionnaire					
15	Dragon Boat Festival	No Class				
16	Final Presentation					
17	期末考試週 Final Exam					
18	Free Discussion					
	教 學 策 略 Teaching Strategies					
課堂講授 Lecture						
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 ■ 磨課師 Moocs						
社會責任(Social Responsibility)						
在地實踐Community Practice產學合作 Industy-Academia Cooperation						
跨域合作(Transdisciplinary Projects) [] 数型 数						
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 other:						

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	配分比例	多元評量方式 Assessments							
Items	Percentage	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%			~					Paper Presentation
期中考成績 Midterm Exam									
期末考成績 Final Exam	30%			~	~				FInal Presentation
作業成績 Homework and/or Assignments	20%				~				Weekly Note- taking
其他 Miscellaneous ()	30%	~							Exam

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.)

Russell, S., & Norvig, P. (2016). Artificial Intelligence: A Modern Approach, Global Edition. Pearson. Zhang, A., Lipton, Z. C., Li, M., & Smola, A. J. (2021). Dive into deep learning. arXiv preprint arXiv:2106.11342.

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)