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②图 z 東華大學 教學計劃表 Syllabus

		教与	學計劃表	Syll	abus				
課程名稱(中文) Course Name in Chinese 人工智慧				學年/學期 Academic Year/Seme	112/2				
	名稱(英文) me in English	Artificial Intelligence							
	-目代碼 rse Code	IM50210	資	資訊管理學系					
	修別 Type	選修 Elective P分數/時間 Credit(s)/Hour(s) 3.0/3.0							
	課教師 tructor	/吳怡菱							
先修課程 Prerequisite									
課程描述 Course Description									
This course introduces various AI techniques, including intelligent agents, constraint satisfaction problems, machine learning, deep learning, and optimization algorithms.									
		課	程目標 Cours	se Objecti	ives				
介紹智慧型系統之理論、設計、實作與應用。									
系專業能力 Basic Learning Outcomes							力相關性 Correlation between Course Objectives and Dept.'s Education Objectives		
A 培育具備創造與思考能力、服務精神、團隊合作以及國際觀Nurture ability regarding							0		
creativity and thinking, spirit of service, teamwork and international view B 培養具備資訊專業知識與技能Nurture professional ability and skill regarding									
INTORMATION 拉養目供咨訊科技的管理領域之知識較入應用能力Nurture integrated ability regarding									
C information technology and management							•		
E 培養具備獨立研究、領導智能與資訊創新的能力Nurture ability regarding independent research, leadership and information innovation							\bigcirc		
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated									
		授課進	度 表 Teaching	g Schedule	e & Content				
週次Week 内容 Subject/Topics					1	備註Remarks			
1	1 Syllabus, course introduction								
2 Graduation Project Proposal									
3 1. Introduction to AI									
4 2. Intelligent		gent							
5	5 3. Solving Problems by Searching								
	Ī					i			

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4. Constraint Satisfaction Problems

7	5. Learning from Examples						
8	6. Neural Network						
9	期中考試週 Midterm Exam						
10	7. Convolutional Neural Network						
11	8. Recurrent Neural Network						
12	9. Introduction to Deep Learning						
13	10. Deep Learning Computation						
14	11. Reinforcement Learning						
15	12. Optimization Problems and Metaheuristic						
16	13. Machine Learning into Metaheuristics						
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							
社會責任(Social Responsibility)							
在地實踐Community Practice							
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 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%								participation
期中考成績 Midterm Exam									
期末考成績 Final Exam									
作業成績 Homework and/or Assignments	80%			~	~				presentation
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.)

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.)

Syllabus, course introduction MS Teams: https://reurl.cc/g0enk4

Teams Code: y9q84tu

Please login MS Teams with XXX@o365.ndhu.edu.tw

其他補充說明(Supplemental instructions)