Course List of GIAI PhD Program 醫學院臨床醫學研究所人工智慧組博士班必選修科目表

(112學年度入學學生適用)

必選修 Required/Elective	科目名稱 Course Title	1st 上	1st 下	科目名稱	2nd 上	2nd 下
必修課程 Required Courses	科技論文討論（1）Technical Literature Survey (1)	1		專題研究(1)(2) Independent Study (1) (2)	2	2
	科技論文討論（2）Technical Literature Survey (2)		1	科技論文討論（3）Technical Literature Survey (3)	1	
				科技論文討論 (4) Technical Literature Survey (4)		1
專業選修(1)_人工智慧基礎 Professional Elevtive Courses(1)_Artficial Intelligence Foundation	自然語言處理 Natural Language Processing		3			
	深度學習 Deep Learning		3			
	電腦視覺 Computer Vision	3				
專業選修(2)_生物與醫學應用 Professional Elevtive Courses(2)_Biological and Medical Applications	臨床資訊工程 Clinical Informatics		3			
	生物資訊分析 Bioinformatic Analysis	3				
	數位醫學影像處理 Digital Image Processing for Medical Applications		3			
專業選修(3)_智慧工程技術 Professional Elevtive Courses(3)_Inttelligence Engineering Technology	智慧物聯網 Artificial Intelligence & Internet of Things		3			
	智慧醫療工程 Intelligence Medicine Engineering	3				
	機器人學習 Robot Learning		3			
選修課程 Elective Courses	區塊鏈技術基礎與應用 Blockchain Technologies: Foundation and Application		3			
	量子機器學習 Quantum Machine Learning	3				
	AI晶片設計 AI IC Design		3			
	人工智慧與音樂導論 Introduction to AI and Musics	3				
	多代理人系統 Multiagent System	3				
	人工智慧與文學導論 Introduction to AI and Literature		3			
	資安結構 Introduction to Cybersecurity	3				
	地理資訊系統 Geospatial Information Syatem	3				

備註 Remark	1. 畢業學分29學分 Graduation Requirement: 29 credits (1) 必修8學分 8 required credits (2)選修15學分。自專業選修(1)(2)(3)中最少通過三門 (每領域最少一門) Elective Courses: 15 credits. Choose a minimum of three courses from the professional electives (1)(2)(3), with at least one course from each domain. (3)博士論文6學分（通過學位口試通過後給予）Doctoral Dissertation: 6 credits (awarded upon passing the thesis defense). 2、須達英文畢業門檻方可畢業。詳細規定請依據本校語文中心「英文畢業門檻實施辦法」。 Graduation is contingent upon meeting the English graduation threshold. For detailed regulations, please refer to the "Implementation Measures for English Graduation Threshold" provided by the Language Center of our university.