亞洲大學 人工智慧博士學位學程 博士班課程規劃表 （115學年度入學適用）

Doctoral Program Curriculum Plan for Ph.D. Program in Artificial Intelligence, Asia University

(Applicable for Fall 2026 Enrollees)

畢業總學分：27 學分

Credits of Graduation：27

校課程委員會通過次別：1143

Approved in the 1143 University Curriculum Committee meeting

類別 Category	科目名稱 Course Title	英文名稱 English Title	修課年級 Year of the Program	修課學期 Semester	學分數 Credits	每週上課時數 Hours per week			備註(中文) Remarks (in Chinese)	備註(英文) Remarks (in English)
						講授 Lecture	實作(驗) Practice (laboratory)	實習 Intern		
校定必修6學分 (6) University Required Credits	博士論文	Doctoral Dissertation	二 2nd	上 1st	1-3	0	0	0		
	博士論文	Doctoral Dissertation	二 2nd	下 2nd	1-3	0	0	0		
必修6學分 (6) Required Credits	專題講座（一）	SeminarI	一 1st	上 1st	1	1	0	0		
	專題講座（二）	Seminar II	一 1st	下 2nd	1	1	0	0		
	專題講座（三）	Seminar III	二 2nd	上 1st	1	1	0	0		

	人工智慧	Artificial Intelligence	一 1st	上 1st	3	3	0	0		
選修 15 學分 (15) Elective Credits	資料科學	Data Science	一 1st	下 2nd	3	3	0	0		
	機器學習	Machine Learning	一 1st	上 1st	3	3	0	0		
	演算法	Algorithms	一 1st	下 2nd	3	3	0	0		
	大數據資料處理	Big Data Management	二 2nd	下 2nd	3	3	0	0		
	語音辨識	Speech Recognition	二 2nd	下 2nd	3	3	0	0		
	影像處理	Image Processing	一 1st	上 1st	3	3	0	0		
	模糊理論	Fuzzy Theory	一 1st	上 1st	3	3	0	0		
	精準醫療	Precision Medicine	二 2nd	上 1st	3	3	0	0		
	區塊鏈技術與應用	Blockchain Technology and Its Application	二 2nd	上 1st	3	3	0	0		
	智慧物聯網(AIoT)	Artificial Intelligence & Internet of Things (AIoT)	一 1st	下 2nd	3	3	0	0		
	雲端運算實務	Cloud Computing	一	下	3	3	0	0		

		Practices	1st	2nd						
	機器人計算學	Robotic Computing	一 1st	下 2nd	3	3	0	0		
	可信賴之人工智慧	Trustworthy Artificial Intelligence	一 1st	下 2nd	3	3	0	0		
	生成式人工智慧	Generative Artificial Intelligence	一 1st	下 2nd	3	3	0	0		
	量子資訊與計算	Quantum Information and Computation	二 2nd	上 1st	3	3	0	0		
	深度學習	Deep Learning	一 1st	下 2nd	3	3	0	0	TAICA 聯盟研究所課程最多可修 9 學分，且需先經指導教授與學程主任同意後選修。	The TAICA Alliance Institute courses can be taken up to 9 credits, and must be approved by the supervising professor and the program director before enrollment.
	資料探勘與應用	Data Mining: Concepts, Techniques, and Applications	一 1st	上 1st	3	3	0	0		
	電腦視覺實務與深度學習	Computer Vision Practice with Deep Learning	二 2nd	上 1st	3	3	0	0		
	自然語言處理	Natural Language Processing	二 2nd	上 1st	3	3	0	0		
	智慧製造執行系統	Intelligent Manufacturing Execution Systems	二 2nd	下 2nd	3	3	0	0		
	大型語言模型與資訊安全系統	Applying Large Language Models in Cybersecurity Systems	二 2nd	下 2nd	3	3	0	0		
	生成式 AI 應用系統	Generative AI	二	下	3	3	0	0		

	與工程	Application Systems and Engineering	2nd	2nd						
	機器導航與探索	Robotic Navigation and Exploration	二 2nd	下 2nd	3	3	0	0		
	智慧人機互動	Human-AI Interaction	二 2nd	上 1st	3	3	0	0		

備註 Remarks：

1. 畢業學分數最低為 27 學分，含校定必修 6 學分（博士論文），學程必修 6 學分，學程選修 15學分。其中，學程選修課程經指導教授與學程主任同意後，得選修本校相關系所開授之博士班相關課程與臺灣大專院校人工智慧學程聯盟（Taiwan AI College Alliance, TAICA）研究所課程，最多 9 學分。

   The minimum credits required for graduation is 27, including 6 credits of university-required courses (dissertation), 6 credits of program core courses, and 15 credits of program electives. Among the elective courses, with the consent of the supervising professor and the program director, students may choose to take relevant doctoral courses offered by the relevant departments of the university and graduate courses from the Taiwan AI College Alliance (TAICA), up to a maximum of 9 credits.

2. 學生除須修畢規定之畢業學分外，須通過資格考、畢業資格審查、博士學位考試(含博士論文計畫書及博士論文審查)，始可畢業。學生應於四年內通過二科資格考試，選考科目包含「資料科學」、「演算法」、「機器學習」、「人工智慧」。

   In addition to completing the required credits for graduation, students must pass the qualifying examination, the graduation qualification review, and the doctoral degree examination (including the dissertation proposal and dissertation review) to graduate. Students must pass qualifying examinations in at least two subjects within four years. The available subjects include "Data Science," "Algorithms," "Machine Learning," and "Artificial Intelligence."

3. 依「亞洲大學學生學術研究倫理教育課程實施要點」109學年度（含）起入學之各系、所、學位學程的碩士班、碩士在職專班及博士班學制，【學生需透過「臺灣學術倫理教育資源中心」線上平台修習指定課程6小時，並於課程總測驗成績達及格標準，始得申請學位考試。】

   All master's and doctoral students must complete 6 hours of designated courses through the online platform of the Center for Taiwan Academic Research

Ethics Education and achieve a passing grade on the final exam before they can apply for their degree examination.

4. 學程必修學分之抵免，或以上未盡事宜，得經由學程主任召開會議討論後裁決之。

Credit exemptions for core courses within the program, or other matters not mentioned above, may be decided after discussion at a meeting convened by the program director.