

# 國立陽明交通大學人機智能與哲學跨域學程實施要點

## National Yang Ming Chiao Tung University Implementation Guidelines for “Philosophy, Intelligence, Brain, and Mind” Cross-Disciplinary Program

110.11.11 110 學年度第 3 次共同教育委員會及共同教育中心聯席課程委員會通過  
110.12.02 110 學年度第 3 次校課程委員會通過  
110.12.16 110 學年度第 2 次教務會議核備通過  
111.03.08 心智哲學研究所第 28 次課程委員會通過  
111.03.21 110 學年度第 2 學期人文與社會科學院課程委員會通過  
111.05.13 110 學年度第 5 次校課程委員會通過  
111.06.16 110 學年度第 4 次教務會議核備通過  
111.10.17 111 學年度第 1 學期人文與社會科學院課程委員會通過  
111.11.28 111 學年度第 2 次校課程委員會通過  
112.03.07 111 學年度第 3 次教務會議核備通過  
112.02.24 111 學年度第 2 學期心智哲學所人機智能與哲學跨域學程課程委員會通過  
112.03.20 111 學年度第 2 學期人文與社會科學院課程委員會通過  
112.05.16 111 學年度第 3 次校課程委員會通過  
112.05.30 111 學年度第 4 次教務會議核備通過  
112.10.12 112 學年度第 1 學期心智哲學所人機智能與哲學跨域學程課程委員會通過  
112.10.16 112 學年度第 1 學期人文與社會科學院課程委員會通過  
112.12.12 112 學年度第 2 次校課程委員會通過  
113.04.07 112 學年度第 2 學期心智哲學所課程委員會通過  
113.04.08 112 學年度第 2 學期人文與社會科學院課程委員會通過  
113.05.20 112 學年度第 3 次校課程委員會通過  
113.09.27 113 學年度第 1 學期心智哲學所課程委員會通過  
113.10.16 人文藝術與社會學院 113 學年度第 2 次課程委員會通過  
113.11.25 112 學年度第 2 次校課程委員會通過

- 1、依據國立陽明交通大學跨域學程實施辦法，為鼓勵學生進行跨領域學習，建立跨域學習深度，協助學生拓展第二專長，提供學生可以在畢業學分不增加（或僅少量增加）情況下，修畢跨域學程，特訂定本要點。
- I. The Implementation Guidelines are based on National Yang Ming Chiao Tung University Cross-Disciplinary Program Implementation Regulations to provide the opportunity for students to proceed cross-disciplinary learning without increasing graduate credits (or only a few extra credits) in order to encourage students to conduct cross-disciplinary study, build the depth of cross-disciplinary study, and assist students to expand second specialty.
- 2、人機智能與哲學跨域學程（以下簡稱本學程），由本校心智哲學研究所提出之模組課程。模組課程分為「覺察課程」、「議題深化探索」、「研究方法與工具」、「案例實作」四大類，包含本領域之基礎與進階知識、研究方法、案例實作，總學分數 28 學分。學生修習本學程為第二專長者，可於其畢業證書原系名稱後加註「人機智能與哲學」為跨域專長。
- II. “Philosophy, Intelligence, Brain, and Mind” Cross-Disciplinary Program (hereinafter referred to as PIBM) is the module curriculum proposed by Institute of Philosophy of Mind and Cognition. The module curriculum is comprised of four types of courses: (1) Awareness, (2) Know-What,

(3) Know-How, and (4) Do-It. These courses include basic and advanced knowledge, research methods and tools, and project-based learning. The total credits of our program are 28 credits. Students taking the PIBM module curriculum as their second specialty, “Philosophy, Intelligence, Brain, and Mind,” will be remarked as their cross-disciplinary specialty after the title of their major department on the diploma.

3、本要點修業規定：

- (一) 本校學生欲修習跨域學程且選擇「人機智能與哲學」作為其跨域專長者，得於每學年度公告申請期限內向其所屬學系（以下簡稱原系）提出申請，通過原系以及心智哲學研究所的雙邊審查後，方可進入跨域學程。
- (二) 本校學生欲修習跨域學程且選擇「人機智能與哲學」作為其跨域專長者，其課程包含：校必修，原系基礎必修課程，原系跨域模組課程，以及列示於「人機智能與哲學跨域模組課程必修科目表」的模組課程，畢業學分以 128 學分為原則。

III. Policies of these Guidelines

- (1) For students who would like to study for cross-disciplinary program and choose “Philosophy, Intelligence, Brain, and Mind” as their cross-disciplinary specialty, they could submit the application to the department that they belong to within the dates of annual announcements by faculty. They can only take the cross-disciplinary program after receiving approval from both their department and the Institute of Philosophy of Mind and Cognition.
- (2) The courses for the students who would like to study for the cross-disciplinary program and choose “Philosophy, Intelligence, Brain, and Mind” as their cross-disciplinary specialty include required courses of the university, core curriculum at their Major Department, cross-disciplinary module curriculum at their master department, and the module curriculum listed on “The Required Course List for the students study cross-disciplinary module curriculum of Philosophy, Intelligence, Brain, and Mind” with at least 128 graduate credits.

4、本學程導師由心智哲學研究所推派專任教師擔任，組成跨域學程導師群，專責輔導本學程的學生。

IV. Institute of Philosophy of Mind and Cognition assigned respective full-time teachers to be the mentors and formed up a mentor group with teachers of the cross-disciplinary program to give guidance to students taking PIBM.

5、為鼓勵不同系所或學院合作提出跨域共授課程，由兩位以上教師開授跨領域之創新整合式課程得依本校教師授課時數核計原則規定辦理。

V. In order to encourage different departments or colleges to work together to design cross-disciplinary curriculum, teaching hours for the innovative cross-disciplinary curriculum offered by more than two teachers could be calculated according to National Yang Ming Chiao Tung University Principles for Verifying and Calculating Teachers' Teaching Hours.

6、本要點如有未盡事宜，悉依本校學則及其他相關規定辦理。

VI. If there is any unaccomplished matter of these guidelines, it shall be handled in accordance with

the school constitution of our university as well as other relevant regulations.

7、本要點經校級課程委員會通過後實施，修訂時亦同。

VII. The Guidelines were approved by Curricular Committee at university level before putting it into practice; the same shall be done upon any amendment thereto.

## 人機智能與哲學跨域模組課程必修科目表

### The Required Course List for the students study cross-disciplinary module curriculum of Philosophy, Intelligence, Brain, and Mind

類別	課程名稱	學分	開課單位	備註
覺察課程 Awareness	哲學概論* Introduction to Philosophy	2	博雅書苑	至少選修 2 學分 At least 2 credit hours
	心智哲學 Philosophy of Mind and Cognition	2	博雅書苑	
	科技哲學 Philosophy of Science and Technology	2	博雅書苑	
	價值、倫理與未來社會 Value, Morality, and the Future Society	2	博雅書苑	
	腦、心智與哲學 Brain, Mind and Philosophy	2	博雅書苑	
	邏輯與 ICT 應用 Logic and Its Applications in Information and Communication Technology	2	心哲所	
	科學哲學概論 Introduction to Philosophy of Science	2	心哲所	
	神經倫理學 Neuroethics	2	博雅書苑	
	認知與道德思考 Morality and Human Cognition	2	博雅書苑	
	普通心理學 General Psychology	2	醫學系	
	科學家必學哲學 Philosophy for Scientists	2	博雅書苑	
	照護哲學 Philosophy of Caring	2	博雅書苑	
	人工智能倫理學 The Ethics of Artificial Intelligence	2	博雅書苑	
	自由、真理與民主於科技時代 Freedom, Truth & Democracy in a Technological Age	2	博雅書苑	
	意識研究(一) Consciousness Studies I	2	心哲所	
	意識研究(二) Consciousness Studies II	2	心哲所	

議題深化 探索 Know What	人機智能與價值 Human-machine Intelligence and Value	2	心哲所	至少選修 2 學分 At least 2 credit hours
	AI 與人類社會 AI and Human Societies	3	心哲所	
	探索科學 I：舊世界的科學 Exploring History of Science. Part I: Science in Ancient Worlds	2	通識中心	
	探索科學 II：從前現代到現代科學 Exploring History of Science. Part 2: From pre-modern to modern science	2	通識中心	
	AI、自我與意識 AI, Self and Consciousness	3	心哲所	
	科學史與科學哲學專題 Topics in History and Philosophy of Science	3	心哲所	
	心智科學哲學 Philosophy of the Sciences of Mind and Brain	3	心哲所	
	計算理論概論 Introduction to Theory of Computation	3	資管碩、心哲所	
	老化認知神經科學 Cognitive Neuroscience of Aging	3	心哲所、神研所	
	人本照護科技 Human-Centered Care and Technology	3	心哲所	
	工程哲學：從生醫到太空 Philosophy of Engineering from Biomedicine to Space and Back	3	心哲所	
	印度哲學中的冥想、心靈與本體 Meditation, Mind, and Ontology in Indian Philosophy	3	心哲所	
	傾向 Dispositions	3	心哲所	
	心智自由與操控 Freedom and mind manipulation	2	博雅書苑	
	人工智能哲學 Issues in the Philosophy of Advanced Artificial Intelligence	3	心哲所	
	語言哲學 Philosophy of Language	3	心哲所	
	破碎的心智：理性與不一致的信念 The fragmented mind: rationality and inconsistent beliefs	2	心哲所	
	演算式決策與學習 Algorithmic Decision and Learning	3	資管碩、心哲所	
	啟靈藥哲學 Philosophy of Psychedelics	2	心哲所	

實用實在論 Realism for Realistic People	1	心哲所
哀思：哲學與臨床觀點 Grief: Philosophical and Clinical Perspective	3	心哲所
記憶哲學議題 Issues in Philosophy of Memory	3	心哲所
自我同一性的倫理議題 Personal Identity & Ethics	3	心哲所
心智自主與知識權利：以假新聞與認知戰為案例研究 Mental autonomy and epistemic rights: Fake news and cognitive warfare as case studies	3	心哲所
科技中的社會價值 Values in Science and Technology	3	心哲所
植物認知 Plant Cognition	1	心哲所
人工智能、生命和心智 AI, Life, & Mind	3	心哲所
注意力與其倫理議題 Attention and its ethics	1	心哲所
思考思考：後設認知與心智 Thinking about Thinking: Metacognition and the Mind	3	心哲所
冥想與自我：當代心理學與現象學觀點 Contemporary Psychological and Phenomenological Studies of Meditation and the Self	3	心哲所
心智與科技 Mind and technology	3	心哲所
心靈塑造 Mindshaping	3	心哲所
跨文化哲學與神經科學中的無我 No-Self in Cross-Cultural Philosophy	3	心哲所
精神醫學哲學 Philosophy of Psychiatry	1	心哲所
心智、生死與靈性照護 Mind, Life, Death, and Spiritual Care	2	博雅書院
記憶哲學專題討論 Seminar in Philosophy of memory	1	心哲所
啟靈物質、精神醫學與跨文化身體中的自我意識(一) Psychedelics, Psychiatry, and Self-Consciousness in Different Cultural Bodies I	3	心哲所

	人工智能的哲學與倫理 Philosophy & Ethics of AI	1	心哲所	
	疼痛哲學 Philosophy of Pain	3	心哲所	
	無私的心靈 Selfless Minds	1	心哲所	
	想像與經驗：哲學探索 Imagination and Experience: Philosophical Explorations	3	心哲所	
	AI、自我與主體性 Agency, self, and AI	3	心哲所	
	科學實在論 Scientific Realism	3	心哲所	
研究方法 與工具 Know How	批判思考 Critical Thinking	2	心哲所	至少選修 2 學分 At least 2 credit hours
	批判與創意思考 Critical and Creative Thinking	2	博雅書苑	
	邏輯學 Logic	2	博雅書苑	
	質性研究方法導論 Introduction to Qualitative Research Methods	3	心哲所	
	跨領域研究方法 Interdisciplinary Research Methods	1 或 3	心哲所	
	論述寫作 Argumentative Essays	2	博雅書苑	
	後設哲學 Metaphilosophy	3	心哲所	
案例實作 Do It	推測設計與說故事 Speculative Design and Storytelling	2	人文社會學院	至少選修 2 學分 At least 2 credit hours
	人機互動哲學 Philosophy of human-computer interaction	3	心哲所	
	認知神經科學實作哲學 Philosophy of Cognitive Neuroscience in Practice	3	心哲所	
	人本照護科技實作 Philosophy of Human-Centered Care and Technology in Practice	3	心哲所	
	哲學專題討論I Seminar in Philosophy I	1	心哲所	
	哲學專題討論II Seminar in Philosophy II	1	心哲所	
	心智模擬的知識論：記憶與想像如何形塑生活 Epistemology of mental simulation: What and how we live and learn	3	心哲所	

	through memory and imagination			
	(才)台女哲學 Conceptual tools for understanding the experiences of women in Taiwan	2	博雅書苑	
	流行文化中的社會和語言議題 Social and Linguistic Topics in Popular Culture	2	博雅書苑	
總學分 Total credit hours		至少修滿 28 學分 At least 28 credit hours		

\*學程採認通識中心開設之「哲學概論」學分