## 國立勤益科技大學進修部四年制113學年度人工智慧應用工程系學分計畫表

National Chin-Yi University of Technology Continuing Education Division Curriculum for 2024 Four-Year Bachelor Program of Department of Artificial Intelligence and Computer Engineering

112.11.08系務暨課程會議通過
112.11.22院課程會議審議通過
112.12.07. 校課程委員會議及112.12.21. 臨時教務會議審議通過
113.04.09. 系課程修正通過
113.04.30院課程會議審議修正通過
113.5.21. 校課程委員會議及113.6.6. 臨時教務會議審議修正通過
113.11.01. 系課程會議審議修正通過
113.11.01. 余課程會議審議通過
113.11.20. 院課程委員會議審議通過
113.12.05 校課程委員會議及113.12.24 臨時教務會議審議通過

	110.		朝First Sei		12. 24 臨時教務會議審議通過 <b>下學期Second Semester</b>			
科目	Courses	學分	正課	實習	學分	正課		
		Credit		Internship	Credit	Lecture	Internship	
	共同必修科目(28學分)General Required Course	es(28cred	its hours	s)				
	第一學年First Year			1		_		
國文(一)	Chinese (I)	3	3	0				
大一英文(一)	Freshman English (I)	2	2	0				
英文聽講(一)	English Listening and Speaking (I)	1	1	0				
歷史與文化(一)	History and Culture (I)	2	2	0				
體育(一)	Physical Education (I)	0	2	0				
音樂鑑賞(一)	Music Appreciation (I)	1	1	0	0	0	0	
國文(二)	Chinese (II)				3	3	0	
大一英文(二)	Freshman English (II)				2	2	0	
英文聽講(二)	English Listening and Speaking (II)				1	1	0	
歷史與文化(二)	History and Culture (II)				2	2	0	
音樂鑑賞(二)	Music Appreciation (II)				1	1	0	
體育(二)	Physical Education (II)				0	2	0	
建计 物日子 ( )	第二學年Second Year	2	2	0		1	i	
憲法與民主 (一)	Constitution and Democracy (I)	2	2	0				
博雅通識課程 體育(三)	Liberal Education Curriculums	0	2	0				
憲法與民主(二)	Physical Education (III) Constitution and Democracy (II)	U		U	2	2	0	
	Liberal Education Curriculums				2	2	0	
博雅通識課程 體育(四)	Physical Education (IV)	-			0	2	0	
旭月(四)	第三學年Third Year				U		U	
新华四世(一)		1	1	0		I	ı	
藝術鑑賞(一) 藝術鑑賞(二)	Art Appreciation (I) Art Appreciation (II)	1	1	U	1	1	0	
<b>会帆鑑貝(一)</b>	nit appreciation (11)	下學期Second Semester						
科目	Courses	學分	胡First Sei 正課	實習	學分	正課	實習	
		Credit	Lecture	Internship	Credit	Lecture	Internship	
	專業必修科目(60學分)Department Required Cour	ses(60cre	edits hou	rs)				
	第一學年First Year							
微積分(一)	Calculus (I)	3	3	0				
△Python程式設計實務	Python Programming	3	3	0				
△Python程式設計實務 微處理機概論	Python Programming Introduction to Microprocessors							
△Python程式設計實務 微處理機概論 微積分(二)	Python Programming Introduction to Microprocessors Calculus (II)	3	3	0	3	3	0	
△Python程式設計實務 微處理機概論 微積分(二) △物件導向程式設計	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming	3	3	0	3	3	0	
△Python程式設計實務 微處理機概論 微積分(二)	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence	3	3	0				
△Python程式設計實務 微處理機概論 微積分(二) △物件導向程式設計 「AI」人工智慧概論	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year	3	3 3	0 0	3	3	0	
△Python程式設計實務 微處理機概論 微積分(二) △物件導向程式設計 「AI」人工智慧概論	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year Introduction to Machine Learning	3 3	3 3	0 0	3	3	0	
△Python程式設計實務 微處理機概論 微積分(二) △物件導向程式設計 「AI」人工智慧概論 「AI」機器學習概論 資料結構	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year Introduction to Machine Learning Data Structures	3 3 3 3	3 3 3 3	0 0	3	3	0	
△Python程式設計實務 機處理機概論 機積分(二) △物件導向程式設計 「AI」人工智慧概論 「AI」機器學習概論 資料結構 Linux系統實務	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year Introduction to Machine Learning Data Structures Linux System Practice	3 3 3 3 3	3 3 3 3 3	0 0 0 0 0	3	3	0	
△Python程式設計實務 機處理機概論 機積分(二) △物件導向程式設計 「AI」人工智慧概論 「AI」機器學習概論 資料結構 Linux系統實務 線性代數	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year Introduction to Machine Learning Data Structures Linux System Practice Linear Algebra	3 3 3 3	3 3 3 3	0 0	3	3	0 0	
△Python程式設計實務 機處理機概論 機積分(二) △物件導向程式設計 「AI」人工智慧概論 「AI」機器學習概論 資料結構 Linux系統實務 線性代數 數位影像處理導論	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year Introduction to Machine Learning Data Structures Linux System Practice Linear Algebra Introduction to Digital Image Processing	3 3 3 3 3	3 3 3 3 3	0 0 0 0 0	3 3	3 3	0 0	
△Python程式設計實務 微處理機概論 微積分(二) △物件導向程式設計 「AI」人工智慧概論 「AI」機器學習概論 資料結構 Linux系統實務 線性代數 數位影像處理導論 作業系統	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year Introduction to Machine Learning Data Structures Linux System Practice Linear Algebra Introduction to Digital Image Processing Operating Systems	3 3 3 3 3	3 3 3 3 3	0 0 0 0 0	3 3 3 3	3 3 3 3	0 0	
△Python程式設計實務 微處理機概論 微積分(二) △物件導向程式設計 「AI」人工智慧概論 「AI」機器學習概論 資料結構 Linux系統實務 線性代數 數位影像處理導論 作業系統 「AI」深度學習理論與應用	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year Introduction to Machine Learning Data Structures Linux System Practice Linear Algebra Introduction to Digital Image Processing Operating Systems Deep Learning Theory and Applications	3 3 3 3 3	3 3 3 3 3	0 0 0 0 0	3 3 3 3 3	3 3 3 3 3	0 0 0 0 0	
△Python程式設計實務 微處理機概論 微積分(二) △物件導向程式設計 「AI」人工智慧概論 「AI」機器學習概論 資料結構 Linux系統實務 線性代數 數位影像處理導論 作業系統	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year Introduction to Machine Learning Data Structures Linux System Practice Linear Algebra Introduction to Digital Image Processing Operating Systems Deep Learning Theory and Applications Discrete Mathematics	3 3 3 3 3	3 3 3 3 3	0 0 0 0 0	3 3 3 3	3 3 3 3	0 0	
△Python程式設計實務 機處理機概論 機積分(二) △物件導向程式設計 「AI」人工智慧概論 資料結構 Linux系統實務 線性代數 數位影像處理導論 作業系統 「AI」深度學習理論與應用 離散數學	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year Introduction to Machine Learning Data Structures Linux System Practice Linear Algebra Introduction to Digital Image Processing Operating Systems Deep Learning Theory and Applications Discrete Mathematics 第三學年Third Year	3 3 3 3 3	3 3 3 3 3	0 0 0 0 0 0	3 3 3 3 3	3 3 3 3 3	0 0 0 0 0	
△Python程式設計實務 機處理機概論 機積分(二) △物件導向程式設計 「AI」人工智慧概論 資料結構 Linux系統實務 線性代數 數位影像處理導論 作業系統 「AI」深度學習理論與應用 離散數學	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year Introduction to Machine Learning Data Structures Linux System Practice Linear Algebra Introduction to Digital Image Processing Operating Systems Deep Learning Theory and Applications Discrete Mathematics 第三學年Third Year Python Machine Learning Application Practice	3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3	3 3 3 3 3	0 0 0 0 0	
△Python程式設計實務 微處理機概論 微積分(二) △物件導向程式設計 「AI」人工智慧概論 資料結構 Linux系統實務 線性代數 數位影像處理導論 作業系統 「AI」深度學習理論與應用 離散數學 「AI」Python機器學習應用實務 邊緣計算實務	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year Introduction to Machine Learning Data Structures Linux System Practice Linear Algebra Introduction to Digital Image Processing Operating Systems Deep Learning Theory and Applications Discrete Mathematics 第三學年Third Year Python Machine Learning Application Practice Edge Computing Practice	3 3 3 3 3	3 3 3 3 3	0 0 0 0 0 0	3 3 3 3 3 3	3 3 3 3 3	0 0 0 0 0 0	
△Python程式設計實務 微處理機概論 微積分(二) △物件導向程式設計 「AI」人工智慧概論 資料結構 Linux系統實務 線性代數 數位影像處理導論 作業系統 「AI」深度學習理論與應用 離散數學 「AI」Python機器學習應用實務 邊緣計算實務 容器化部署	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year Introduction to Machine Learning Data Structures Linux System Practice Linear Algebra Introduction to Digital Image Processing Operating Systems Deep Learning Theory and Applications Discrete Mathematics 第三學年Third Year Python Machine Learning Application Practice Edge Computing Practice Containerized Deployment	3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3	0 0 0 0 0 0 0	
△Python程式設計實務 微處理機概論 微積分(二) △物件導向程式設計 「AI」人工智慧概論 資料結構 Linux系統實務 線性代數 數位影像處理導論 作業系統 「AI」深度學習理論與應用 離散數學 「AI」Python機器學習應用實務 邊緣計算實務	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year Introduction to Machine Learning Data Structures Linux System Practice Linear Algebra Introduction to Digital Image Processing Operating Systems Deep Learning Theory and Applications Discrete Mathematics 第三學年Third Year Python Machine Learning Application Practice Edge Computing Practice Containerized Deployment Computer Vision Fundamentals	3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3	3 3 3 3 3	0 0 0 0 0 0	
△Python程式設計實務 微處理機概論 微積分(二) △物件導向程式設計 「AI」人工智慧概論 資料結構 Linux系統實務 線性代數 數位影像處理導論 作業系統 「AI」深度學習理論與應用 離散數學 「AI」Python機器學習應用實務 邊緣計算實務 容器化部署 ●電腦視覺概論	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year Introduction to Machine Learning Data Structures Linux System Practice Linear Algebra Introduction to Digital Image Processing Operating Systems Deep Learning Theory and Applications Discrete Mathematics 第三學年Third Year Python Machine Learning Application Practice Edge Computing Practice Containerized Deployment Computer Vision Fundamentals	3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3	0 0 0 0 0 0 0	
△Python程式設計實務 微處理機概論 微積分(二) △物件導向程式設計 「AI」人工智慧概論 資料結構 Linux系統實務 線性代數 數位影像處理導論 作業系統 「AI」深度學習理論與應用 離散數學 「AI」Python機器學習應用實務 邊緣計算實務 容器化部署	Python Programming Introduction to Microprocessors Calculus (II) Object-oriented Programming Introduction to Artificial Intelligence 第二學年Second Year Introduction to Machine Learning Data Structures Linux System Practice Linear Algebra Introduction to Digital Image Processing Operating Systems Deep Learning Theory and Applications Discrete Mathematics 第三學年Third Year Python Machine Learning Application Practice Edge Computing Practice Containerized Deployment Computer Vision Fundamentals	3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3	0 0 0 0 0 0 0	

		上學	娟First Ser	nester	下學期Second Semester			
科目	Courses	學分 Credit	正課	實習	學分 Credit	正課	實習 Internship	
	專業選修科目Department Electives		Lecture	Internship	credit	Lecture	arcernsnip	
	第一學年First Year	cour ses						
電腦軟體應用與設計	Computer Software Application and Design				3	3	0	
△互動藝術程式設計	Creative Coding				3	3	0	
	第二學年Second Year							
△系統分析與設計	System Analysis and Design	3	3	0				
機率與統計	Probability and Statistics	3	3	0				
多媒體概論	Introduction to Multimedia	3	3	0				
「AI」AI應用數學概論	Introduction to AI Applied Mathematics	3	3	0				
△網頁設計與網站管理	Web Design and Website Management	3	3	0				
●嵌入式系統與感測器應用概論	Introduction to Embedded System and Sensor Application	3	3	0	1			
空拍攝影應用	Applications of Aerial Photography	3	3	0				
△C語言程式設計	C Language Programming	3	3	0				
資料擷取與感測器實務	Data Acquisition and Sensor Practice	3	3	0				
元宇宙藝術導論	Introduction to Metaverse Art	3	3	0				
△●資料庫應用	Database Applications	3	3	0				
系統架構與軟體工程實務	System Architecture and Software Engineering Practice				3	3	0	
●Linux系統實務	Linux System Practice				3	3	0	
生產與作業管理實務	Production and Operation Management Practice				3	3	0	
3D動畫實務	3D Animation Practice				3	3	0	
實境技術	Reality Technology				3	3	0	
職場倫理	Workplace Ethics				3	3	0	
計算機網路概論	Introduction to Computer Networks				3	3	0	
	第三學年Third Year							
「AI」數據分析與機器學習實務	Data Analysis and Machine Learning Practice	3	3	0				
●OpenCV影像處理實務	OpenCV Image Processing Practice	3	3	0				
●物聯網控制實務	Internet of Things Control Practice	3	3	0				
智慧機械概論	Introduction to Intelligent Machinery	3	3	0		<del>                                     </del>	ļ	
●智慧機械APP設計實務	Smart Machinery APP Design Practice	3	3	0			<b></b>	
計算機組織	Computer Organization	3	3	0				
行動裝置應用設計實務 網路協定分析實務	Mobile Device Application Design Practice Network Protocol Analysis Practice	3	3	0		+		
●實驗設計實務	Experimental Design Practice	3	3	0				
「AI」人工智慧技術實務	Artificial Intelligence Technology Practice	3	3	0		+		
「AI」AI影像辨識實務	AI image Recognition Practice	3	3	0				
資訊安全導論	Introduction to Information Security			<u> </u>	3	3	0	
「AI」AI繪圖實務	AI Drawing Practice		<del>                                     </del>		3	3	0	
△遊戲程式設計實務	Game Programming Practice				3	3	0	
3D列印工程實務	3D Printing Engineering Practice				3	3	0	
●工業物聯網數據擷取與應用實	Data Acquisition and Application Practice				3	3	0	
務 △「AI」深度學習程式實務	using Industrial Internet of Things Deep Learning Program Practice		<del>                                     </del>	$\vdash$	3	3	0	
「AI」仿生演算法	Bionic Algorithm		<del>                                     </del>	$\vdash$	3	3	0	
雲端生產數據維運實務	Cloud Production Data Maintenance and				3	3	0	
	Operation Practice		<del></del>	$\longmapsto$				
●AOI工程應用實務 「AI」△機器學習程式實務	AOI Engineering Application Practice Programming Practice of Machine-Learning		├──	$\vdash$	3	3	0	
「AI」△機器学習程式員務 「AI」推薦系統 & 聊天機器人實			<del></del>	<del>                                     </del>	_	1	<u> </u>	
務	Recommendation System & Chat Bot Practice		<u> </u>	$\longmapsto$	3	3	0	
體感互動裝置	Somatosensory Interactive Device		Ь——	$\longmapsto$	3	3	0	
●大數據與資料探勘實務	Big Data and Data Exploration Practice		<u> </u>		3	3	0	
TAT AT A KG BJ 1/4 A 1 a min min	第四學年Fourth Year							
「AI」AI生醫影像分析實務	AI Bbiomedical Sensing Practice	3	3	0		<del>                                     </del>	<del>                                     </del>	
雲端運算實務	Cloud Computing Practice Al Industrial Application Practice	3	3	0		+	<u> </u>	
「AI」AI產業應用實務	Principles and Applications of Augmented			· ·		<del>                                     </del>	<del>                                     </del>	
擴增實境原理與應用 	Reality	3	3	0		<u> </u>		
「AI」智慧機械SMB實務	Smart Machine Box Practice	3	3	0		<del>                                     </del>	<u> </u>	
●機電整合實務	Introduction to Mechatronics	3	3	0		<del>                                     </del>		
光學系統實務	Optical System Practice	3	3	0		<u> </u>		
資料視覺化	Data Visualization	3	3	0		<u> </u>		
「AI」機器人學	Robotics	3	3	0		<del>                                     </del>	<u> </u>	
科技英文(一)	English for Science and Technology (I) Cloud Environment Management and Maintenance	3	3	0		<del>                                     </del>	<del></del>	
雲端環境管理與維護實務	Practice	3	3	0				
「AI」AI自然語言處理實務								
電腦視覺實務	AI Natural Language Practice Computer Vision Practice	3	3	0				

	Industrial Internet of Things Security											3	3		0
	Industrial Robotic Arm Practice											3	3	寸	0
AJ	AI Virtual Reality Practice											3	3	一	0
Bi	Big data Analysis Practice											3	3		0
Sy	Systematic Innovation Method and Practice											3	3	ヿ	0
	Management											3	3	П	0
Er												3	3		0
Sc	Software Engineering Practice											3	3		0
Αι	Automatic Control Theory											3	3		0
								上學	期First	Semes	ter	下學	<b>HSecond</b>	d Ser	nester
	Courses						學分 Credit				學分 Credit			實習 Internship	
			共同選	<b>整修科目</b>	Genera	l Elec	ive Co	ourses							
( I	All-Out Defense Education Military Training							1	2		0				
	All-Out Defense Education Military Training (II)											1	2		0
(I	(III)							1	2		0				
	All-Out Defense Education Military Training (IV)						ing					1	2		0
A1 (V	1-0ut 7)	Defense	e Educa	ition M	ilitary	/ Train	ing	1	2		0				
Ph	ysical	Electi	ive Cou	ırse				1	2		0				
Ge	eneral	Electiv	ve Cour	·se				2	2		0				
Ph	Physical Elective Course											1	2		0
	General Elective Course														
Ge	eneral	Electiv										2	2		0
			ve Cour	·se 第四	g學年F(	ourth Y	ear					2	2	<u> </u>	0
				·se 第四	g學年F(	ourth Y	ear	1	2		0	2	2	그 그	0
Ph	nysical	Electi	ve Cour	se 第四 Irse	四學年F(	ourth Y	ear	1	2		0	2	2	 <del></del>	0
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Ph	nysical nysical 第一學年 <sup>時期</sup>	Electi	ve Cour ive Cou ive Cou	第四 第四 arse arse	第二學年S		· · ·		第三學年"	Third Year 下空	Ü	1	2 第四學年Fo B期		0
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## 備註Note:

- 畢業至少應修滿 128 學分【必修 88 學分,選修至少 40 學分(其中至少需含本系專業選修 27 學分)】。 Students should complete at least 128 credits before graduation, including 88 required credits, 40 elective credits (elective credits should have at least 27 credits from department elective courses).
- 博雅通識課程三大領域中,應修習二門不同領域課程,學分總計至少4學分。 Among the 3 core areas of liberal education curriculum, students should take 4 or more credits in 2 different areas.
- 課程名稱前有標示「●」符號者,為「職能專業課程」。 Courses with a "●" refer to a professional competence course.
- 課程名稱前有標示「 $\triangle$ 」符號者,為程式設計課程。 Courses with a " $\triangle$ " refers to an application design course.
- 課程名稱前有標示「AI」符號者,為「人工智慧相關課程」。 Courses with an "AI" refer to an artificial intelligence related course 五、
- 為因應法規變更、評鑑建議或政府計畫規定等外在因素,本系保有調整學分計畫之權利。若有修訂,將於學期開始前公告,並明確說明修訂內容、影響範圍及相關配套措施,以保障學生權益。 The department reserves the right to adjust the curriculum in response to external factors such as changes in regulations, suggestions of evaluation and accreditation, or government program regulations. If there are any revisions, will be announced before the start of the semester, and the revised content, scope of impact, and related supporting measures will be clearly stated to protect the rights and interests of students.