

吳鳳科技大學 日間部 日四技 人工智慧無人機科技系 課程表 (113學年度入學學生適用)

The Curriculum Framework for the Four-Year Bachelor Program of the AI UAS Technology Department at WuFeng University for the 113 Academic

類別 (Categories of Courses)	第一學年(First Academic Year)						第二學年(Second Academic Year)						第三學年(Third Academic Year)						第四學年(Forth Academic Year)						小計 subtotal							
	上(First Semester)			下(Second Semester)			上(First Semester)			下(Second Semester)			上(First Semester)			下(Second Semester)			上(First Semester)			下(Second Semester)										
	科目 Course Title	學分 Credit	時數 Hour	科目 Course Title	學分 Credit	時數 Hour	科目 Course Title	學分 Credit	時數 Hour	科目 Course Title	學分 Credit	時數 Hour	科目 Course Title	學分 Credit	時數 Hour	科目 Course Title	學分 Credit	時數 Hour	科目 Course Title	學分 Credit	時數 Hour	科目 Course Title	學分 Credit	時數 Hour								
核心素養 (Core Literacy)	英文(一)(English(I))	3	3	英文(二)(English(II))	3	3	安全教育/Safety Education	1	1																							
	文學赏析與寫作 Appreciation & Composition of Chinese Literature	2	2	語言能力表達/The ability of Expression in Chinese Language	2	2	專業倫理/Professional Ethics	1	1																							
	體育(一)(Physical Education(I))	2	2	體育(二)(Physical Education(II))	2	2	創意概論與智財權 Introduction of creation	1	1																							
	勞作教育/Labor Education	1	1																													
小計/ Subtotal		8	8		7	7		3	3		0	0			0	0			0	0			18	18								
公民素養																																
(Civic Literacy)																																
小計/ Subtotal		0	0		0	0		0	0		2	2			2	2			0	0			0	0	4	4						
院共同必修 (Courses required by the college)	微積分/Calculus	2	2	電腦實務與程式應 用**Computer practice and programs application	2	2																										
小計/ Subtotal		2	2		2	2		0	0		0	0			0	0			0	0			0	0	4	4						
系畢業必修 (Courses required by the department)	無人機系統操作實習 (一)**UAV operation practice (1)*	2	3	無人機系統操作實習 (二)**UAV operation practice (2)	2	3	無人機組裝與維護保養/UAV assembly and maintenance	2	3	元素機應用與實踐**Use drone applications and practices	2	3	實務專題(一)**Practice topic (I)	1	1	實務專題(二)**Special Project (II)	1	1														
	人工智能導論** **Introduction to AI*	2	2	基本電學/Basic electricity	2	2	通傳系統概論** Introduction to Remote Control System	2	2	大數據理論與實踐(一)**Big Data Theory and Practice(I)	3	3	大數據理論與實踐(二)**Big Data Theory and Practice(II)	2	2	技術報告撰寫**Technical Report Writing	2	2														
	航空概論/Introduction to Aviation	2	2	Python 簡式設計概論 **Introduction to Python Programming**	2	2	機器學習概論**Machine learning principle	2	2	鑑別式机器学习AI概論 **Introduction to Discriminative AI and Generative AI#	2	2	AI系統開發實習(-)-AI#AI Application Planner Practice(2)/#	2	2	AI多模式工業實踐***/AI Multimodal Trials as Actor**	2	2														
	航空法規與倫理/Aviation regulations and ethics	2	2	基礎電腦繪圖**Basic computer graphics**	2	2	初階專業英文/Professional English(I)	1	1	進階專業英文/Professional English (II)	1	1																				
	小計/ Subtotal		8	9		8	9		7	8		8	9		5	5		5	5		0	0			0	0	41	45				
必修小計/ Subtotal, Compulsory		18	19		17	18		10	11		10	11		7	7		5	5		0	0			0	0	67	71					
系專業選修 (Courses elective by department)	(一) 作業風險管理/ Operations risk management						3	3	深度学习訓練**/Deep learning practice			3	3	感知器理論與實驗**/Sensor theory and practice			3	3	AI應用規劃師實習(-)/AI Application Planner Practice(2)/			2	2	人工智慧安全與倫理 #/Artificial Intelligence Safety and Ethical		3	3	智慧監測系統實習**/ Smart monitoring system practice			3	3
	(二)空拍影片製作/ Aerial photography and video production						3	3	無人機遙測影像分析實習 **UAV telemetry image analysis practice			3	3	無人機偵察實務/Drone Surveying Practice			3	3	C 語言設計實習**/C Programming Practice			3	3	軟體資產存檔/Cadren Inventory practice		3	3	VTDL無人機系統應用**/ VTDL UAV System Application			3	3
	(三)直升機飛控與實習/ Helicopter Applications and Practice						3	3	FPV飛行實習/FPV operation practice			3	3	虛擬現實體驗課程**/ Virtual Reality Practical Application			3	3	無人機農藥噴灑實習**/ UAV agricultural spraying practice			3	3	靜態設計及運作實習**/Quatc design and operation practice**		3	3	社群媒體製作實習**/ Social Media Production Practice			3	3
該學期至少需選修 學分/學時 minimum elective 學分/學時小計 Subtotal	0	0		0	0		3	3		3	3		3	3		3	3		9	9			9	9	30	30						
		18	19		17	18		13	14		13	14		10	10		8	8		9	9			9	9	97	101					
學程與跨領域選修 學分/學時 Course and Cross- field electives: up to 30 credits	1. 通識課程：最多 4 學分 1.General Education Learning Passport: Up to 4 credits 2. 社團發展：最多 4 學分 2.Club Development: Up to 4 credits 3. 學程與跨領域選修：最多為本組課程應修學分 3. Course and interdepartmental interest electives: up to credits required for this type of courses 4. 校外實習：最多 21 學分 4.Field Practice: Up to 21 credits																															
學程與跨領域選修學 分/學時建議 Course and Cross- field electives credit/credit hour recommendations	2	2		2	2		2	2		7	7		6	6		4	4		4	4			4	4	31	31						
畢業應修學分/學時 Total Number of Required Credits/Hour		20	21		19	20		15	16		20	21		16	16		12	12		13	13			13	13	128	132					
共同選修 Common Elective	1. 「系內共同選修」課程有五項領域：(一)國際情勢 (二)國防政策 (三)全民國防 (四)海商航員 (五)國際科技。 1. The "National Defense Education and Military Training" course has five areas: (1) International Situation (2) National Defense Policy (3) National Defense Mobilization (4) Defense Mobilization (5) National Defense Science and Technology. 2. 各領域均為 0 學分/2 學時，可折抵役期，各領域每學期開設情況，均依當學期教務處公布為準。 2. 0 credits /2 class hours in all fields, which can be deducted for service period. The courses of each semester are subject to the announcement of the Academic Affairs Office of the current semester.																															
備註/Notes: 一、校基本要求/Basic requirements of the university: 1. 語言能力門檻：依據「英屬科技大學學生英文能力專業門檻實施要點」相關規定辦理。 Language Proficiency Threshold: It shall be handled according to the implementation of "Wufeng University Students' English Proficiency Requirements for Graduation Threshold." 2. 資訊能力門檻：依據「英屬科技大學學生資訊能力專業門檻實施要點」，非資訊系(科)至少通過一種資訊基本能力認證測驗；資訊系(科)至少需通過兩種資訊能力認證測驗。 2.Information Capability Threshold: According to the implementation of "Wufeng University students' information capability requirements for graduation threshold." Students of non-information departments (sections) must pass at least one basic information proficiency certification test. Students of the department of Information must pass at least two information proficiency certification tests. The Curriculum Framework for the Four-Year Bachelor Program of the Fire Science Department at Wufeng University for the 112 Academic Year 二、院基本要求/Basic requirements of the college: The compulsory subjects of the colleges: Calculus, Computer Practical Program Application. Students must pass these courses. 三、系所基本要求/Basic requirements of the department: 1. 畢業學分數要求：至少需取得128學分方可畢業，其中包括(1)核心素養18學分(2)公民素養4學分(3)學院共同必修4學分 (4)專業必修科目 29學分 (5)專業選修科目45學分 (6)學程與跨領域選修課程26學分 The courses are recognized for courses, Course and Cross-field electives courses. 2. 各年級各學期修習學分數規定：(1)一、二年級：16-25學分、(2)三年級：14-25學分、(3)四年級：9-25學分。 2. Regulations on the number of credits for each grade and semester: (1) From first to second year: 16-25 credits、(2) Third year: 14-25 credits、(3) Forth year: 9-25 credits. 3. 校外實習須符合「英屬科技大學學生校外實習課程實施要點」據以認定實習成績。 3. The Practical Training must meet the "Implementation of Wufeng University Students' Practical Training Course" to determine the internship results. 四、其他說明/Other remarks 系系可因應計畫和產業需求調整專業選修課程。The department may modify elective courses according to the needs of the program and industry. 五、(修、訂) 定歷程/Revised History: 114.07.25安全工程學院113學年度第2學期第4次課程委員會通過：114.07.30 113學年度第2學期第6次校課程委員會會議通過。 114/07/25 113academic year 2nd semester, adopted by the College of 4 urriculum Committee conference. 114/07/30 113 academic year 2st semester, adopted by the 6st Curriculum Committee conference.																																