

The Curriculum Framework for the Four-Year Bachelor Program of the AI UAS Technology Department at WuFeng University for the 115 Academic																														
科目類別 (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(Fourth 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	科目 Course Title	學分 Credit	時數 Hour	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																					
	文學賞析與習作 /Appreciation & Composition of Chinese Literature	2	2	語文能力表達/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 to Creativity & IPR	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		0	0		0	0		0	0	18	18	
公民素養 (Civic Literacy)									公民素養(一)/Civic Literacy (I)	2	2	公民素養(二)/Civic Literacy(II)	2	2																
	小計/subtotal	0	0		0	0		0	0		2	2		2	2		0	0		0	0		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 prctice and programe application	2	2																								
	小計/subtotal	2	2		2	2		0	0		0	0		0	0		0	0		0	0		0	0		0	0	4	4	
系專業必修 (Courses required by the department)	無人載具操作應用實務(一)*/UAV operation practice (I)*	2	3	無人載具操作應用實務(二)*/UAV operation practice (2)	2	3	無人機組裝與維護保養/UAV assembly and maintenance	2	2	定翼機應用與實務/Fix wing drone applications and practice	2	3	實務專題(一)/Project ractice	1	1	實務專題(二)/Project practice (II)	1	1												
	人工智慧導論*/#/Introduction of AI*#	2	2	基本電學/Basic electricity	2	2	遙導控系統概論*/#/Introduction to Remote Guidance Control System	2	2	大數據理論與實務(一)*/#/#/Big Data Theory and Practice(I)	3	3	大數據理論與實務(二)*/#/#/Big Data Theory and Practice(II)	2	2	技術報告撰寫*/Technical Report Writing	2	2												
	航空概論/Introdution to Aviation	2	2	Python 程式設計概論*/#/Introdution to Python Programming*#	3	3	機器學習概論*/#/#/Machine learning principle	2	2	鑑別式AI與生成式AI概論*/#/Introdution to Discriminative AI and Generative AI#	2	2	AI應用規劃師實務(一)*/#/#/AI Application Planner Practice(2)#	2	2	AI多模式工具實務*/#/#/AI Multimodal Tools in Practice*#	2	2												
	航空法規與倫理/Aviation regulations and ethics	2	2	電腦繪圖與3D列印實務*/#/#/Computer graphics and 3D printing practice*	2	3	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		9	11		7	7		8	9		5	5		5	5		0	0		0	0		0	0	42	46	
必修小計/Subtotal, Compulsory		18	19		18	20		10	10		10	11		7	7		5	5		0	0		0	0		0	0	68	72	
系專業選修 (Elective courses of the department)							作業風險管理/ Operationa risk management	3	3	深度学习概論*/#/#/Deep learning practice	3	3	感測器理論與實務*/#/#/Sensor theory and practice	3	3	AI應用規劃師實務(二)*/#/#/AI Application Planner Practice(2)#	2	2	人工智慧安全與倫理*/#/#/Artificial Intelligence Safety and Ethics#	3	3	智慧監測系統實務*/#/#/Smart monitoring system practice	3	3						
							空拍與影片製作/ Aerial photography and video production	3	3	無人機遙測影像分析實務*/#/#/UAV telemetry image analysis practice	3	3	無人機測繪實務/Drone Surveying Practice	3	3	C 程式設計實務*/#/#/C Programming Practice	3	3	碳盤查實務/Carbon inventory practice	3	3	VTOL無人機系統應用/ VTOL UAV System Application	3	3						
							直升機應用與實務/ Helicopter Applications and Practice	3	3	FPV操作實務/FPV operation Practice	3	3	虛擬實境實務應用*/ Virtual Reality Practical Application	3	3	無人機農噴實務/ UAV agricultural spraying practice	3	3	群飛設計及操作實務*/Swarm Flight Design and Operation Practice*	3	3	社群媒體製作實務*/ Social Media Production Practice	3	3						
																			校外實習(一)/Practical Training(1)	3	3	校外實習(五)/Practical Training(5)	3	3						
																			校外實習(二)/Practical Training(2)	3	3	校外實習(六)/Practical Training(6)	3	3						
																			校外實習(三)/Practical Training(3)	3	3	校外實習(七)/Practical Training(7)	3	3						
																			校外實習(四)/Practical Training(4)	3	3									
	該學期至少需選修學分/學時 minimum elective credits required for		0	0		0	0		3	3		3	3		3	3		3	3		9	9		9	9		9	9	30	30
學分/學時小計 Subtotal, Credits/Hour		18	19		18	20		13	13		13	14		10	10		8	8		9	9		9	9		9	9	98	102	
潛能課程： 至多30學分 Potential courses: up to 30 credits	1. 通識護照：最多4學分 1. General 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：最多為本類課程應修學分 3. Course and interdepartmental interest electives: up to credits required for this type of courses 4. 校外實習：最多18學分 4.Field Practice: Up to 18 credits 5. 潛能課程相關課程詳細規定請參考「吳鳳科技大學學程、跨領域選修、校外實習與潛能課程修課要點」。 5. Please refer to "Wufeng University Regulations on Academic Programs, Cross-Disciplinary Electives, Off-Campus Internships, and Potential Courses".																													
潛能課程學分/學時建議 Potential course credit/credit hour		2	2		2	2		2	2		6	6		6	6		4	4		4	4		4	4		4	4	30	30	
畢業最低學分/學時 Total Number of Required Credits/Hour		20	21		20	22		15	15		19	20		16	16		12	12		13	13		13	13		13	13	128	132	
共同選修 Common Elective	1. 「全民國防教育軍事訓練」課程有五大領域：(一)國際情勢 (二)國防政策 (三)全民國防 (四)防衛動員 (五)國防科技。 1. The "National Defense Education and Military Training" course has five areas: (1) International Situation (2) National Defense Policy (3) National Defense (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告為準。 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.語文能力門檻：依據「吳鳳科技大學學生英文能力畢業門檻實施要點」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「吳鳳科技大學學生資訊能力畢業門檻實施要點」，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。 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 information department must pass at least two 二、院基本要求/Basic requirements of the college： 1.學院必修科目為：微積分、電腦實務與程式應用，學生必須修習及格。 The compulsory subjects of the college: Calculus, Computer practice and programe application, Creativity and Intellectual Property Right. Students must pass the 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)核心素養科目18學分(2)公民素養科目4學分(3)學院共同必修4學分(4)專業必修科目42學分(5)專業選修科目30學分(6)學程、跨系興趣選修與潛能課程30學分。 Graduation credit requirements: At least 128 credits, including (1) Core Literacy Courses:18 credits (2) Civic Literacy Courses: 4 credits (3) The common compulsory subjects of the colleges: 00 credits (4) Professional compulsory courses:00credits (5) Professional elective courses: 00 credits (6) A maximum of 30 credits are recognized for 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。 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「吳鳳科技大學學生校外實習課程實施要點」據以認定實習成績。 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 1.*表示需使用電腦課程。AI相關課程，請以#表示。實務課程，請以「黃色」填滿色彩表示。邏輯程式設計，請以「淺綠色」填滿色彩表示。 * Indicates that a computer course is required. AI courses are represented by #. Practical courses are indicated in "yellow". Logic programming courses are shown in "light green". 五、訂(修)定歷程/Booking (Revised) History：																														
115.06/** 人工智慧無人機科技系114學年度第2學期第1次課程委員會通過；115.0/** 安全工程學院114學年度第2學期第4次課程委員會通過；115.0/** 114學年度第2學期第6次校課程委員會通過。 115/06/** Department of AI UAS Technology 113 academic year 2nd semester, adopted by the 1st Curriculum Committee conference. 115/07/25 113 academic year 2nd semester, adopted by the College of Safety and Engineering Curriculum Committee conference. 115/**/** 114 academic year 2nd semester, adopted by the 6th Curriculum Committee conference.																														