

吳鳳科技大學 日間部 四技 機械與智慧製造工程系 課程表（113 學年度入學學生適用）

The Curriculum Framework for the Four-Year Bachelor Program of the Department of Mechanical and Intelligent Manufacturing Engineering at WuFeng University for the 113 (2024) Academic Year

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
基本素養	Basic Literacy	英文 (一) / English	3	3	英文 (二) / English	3	3																				
		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 Literature	2	2																				
		體育 (一) / Physical Education (I)	2	2	體育 (二) / Physical Education (II)	2	2																				
		小計 / Subtotsl	7	7		7	7		0	0		0	0		0	0		0	0		0	0		0	0	14	14
特色素養	Distinctive Literacy	勞作教育 / Labor	1	1				安全教育 / Safety Education	1	1																	
								專業倫理 / Professional Ethics	1	1																	
								創意概論與智財權 / Introduction to Originality and IPR	1	1																	
		小計 / Subtotsl	1	1		0	0		3	3		0	0		0	0		0	0		0	0		0	0	4	4
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	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 Program Application	2	2																				
		小計 / Subtotal	2	2		2	2		0	0		0	0		0	0		0	0		0	0		0	0	4	4
系專業必修	Courses Required by the Department	精密量測 / Precision Metrology	2	2	工廠實習 / Work Shop Practice	1	2	數控工具機 (一)* / CNC Machine Tool (I)	2	3	數控工具機 (二)* / CNC Machine Tool (II)	2	3	計算機程式與人工智慧概 論*# / Introduction to Computer Programming and	2	2	機械設計 / Mechanical Design	3	3								
		機械製造 / Manufacturing Processes	2	2	工業4.0概論 / Introduction to Industry 4.0	2	2	電機學 / Introduction to Electrical Engineering	2	2	機構學 / Mechanicisim	2	2	熱力學 / Thermodynamics	3	3	實務專題 / Mechanical Project	1	1								
		機械製圖 / Mechanical Drafting	2	2	物理 (電學、磁學、光學) / Physics (Electricity, Magnetism, Optics)	2	2	電腦立體繪圖 (一)* / 3D Computer Drafting (I)	2	2	電腦立體繪圖 (二)* / 3D Computer Drafting (II)	2	2	多軸加工實務* / Practice on Multi-Axis Machining	2	2											
					工程材料 / Engineering Materials	2	2	應用力學 / Applied Mechanics	3	3	材料力學 / Mechanics of Material	3	3	液氣壓學與實習 / Hydraulics and Pneumatics	2	3											
								工程數學 (一) / Engineering Mathematics (I)	2	2				淨零碳規劃管理概論 / Introduction to the Net Zero Carbon Planning and Management	2	2											
		小計 / Subtotal	6	6		7	8		11	12		9	10		11	12		4	4		0	0		0	0	48	52
必修小計 / Suntotal, Compulsory		16	16		16	17		14	15		11	12		13	14		4	4		0	0		0	0	74	78	
系專業選修	Elective Courses of the Department						可程式控制器應用 / The Application of Programmable Logical	2	2	工業4.0智慧工廠 / Industry 4.0 Intelligent Factory	2	2	電腦立體繪圖 (三)* / 3D Computer Drafting (III)	2	2	生產管理 / Production Management	2	2	校外實習 (一)	3	3	校外實習 (四)	3	3			
							工業安全與衛生 / Industrial Safety and Sanitation	2	2	工程數學 (二) / Engineering Mathematics (II)	2	2	智慧型機器人 (一)* / Intelligent Robot I	2	2	智慧型機器人 (二)*# / Intelligent Robot II	2	2	校外實習 (二)	3	3	校外實習 (五)	3	3			
							精密製造 / Precision Manufacture	2	2	智慧製造技術 / Wisdom manufacturing technology	2	2	傳動機構實務 / transmission Mechanism	2	2	流體力學 / Fluid Mechanics	2	2	校外實習 (三)	3	3	校外實習 (六)	3	3			
							製造聯網整合技術* / Manufacturing Networking Integration Technology	2	2	模具學 / Moldology	2	2	CPS製造技術 / CPS Manufacturing Technology	2	2	電腦輔助工程分析* / Computer Aided Engineering Analysis	2	2									
									品質管制 / Quality Management	2	2	作業研究 / Operation Research	2	2	逆向工程與快速原型 / Reverse Engineering and Rapid Prototyping	2	2										
									綠色能源概論 / Introduction to Green Energy	2	2	物聯網與大數據於智慧製 造應用 / Applications to IoT and Big Data in Smart	2	2	機械振動學 / Mechanical Vibration	2	2										
																冷凍空調概論 / Introduction to Refrigeration and Air Conditioning	2	2									

																電子裝置散熱實務 / Heat Emmision of Electronic	2	2																
																ESG企業永續概論 / Introduction to ESG Enterprise Sustainability	2	2																
該學期至少需選修學分/學時 Minimum Elective Credits Required for the Semester										4	4			6	6			6	6								24	24						
學分/學時小計 Subtotal, Credits / Hours				16	16			16	17			18	19			17	18			19	20					0	0		0	0	98	102		
潛能課程：30學分 Potential Courses: 30 Credits	1. 通識護照：最多 4 學分 General Education Learning Passport: Up to 2 Credits																4. 校外實習：最多 18 學分 Field Practice: Up to 18 Credits																	
	2. 社團發展：最多 4 學分 Club Development: Up to4 Credits																5. 微學分課程 Micro-Credit Course																	
	3. 學程與跨系興趣選修：最多為本類課程應修學分 Course and Interdepartment Interest Electives: Up to Credits Required for this type of Courses																6. 潛能課程相關課程詳細規定請參考「吳鳳科技大學潛能課程修課要點」辦理。 Please Refer to "Key Points of Potential Courses of Wufeng University of Science and Technology" for Detailed Requirements of Potential Courses																	
潛能課程修課學分/學時建議 Potential Courses Credit/Hour				2	2			2	2			2	2			2	2			2	2			9	9		9	9	30	30				
畢業最低學分/學時 Total Number of Required Credits/Hour				18	18			18	19			20	21			19	20			21	22			14	14		9	9		9	9	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 The course "National Defence Education and Military Training" 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。 Zero credits / Two class hours for each area, 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 information proficiency certification tests.																																		
二、院基本要求 / Basic Requirements of the College：																																		
1. 學院必修科目為：微積分、計算機概論、創意發明與智慧財產權。學生必須修習及格。 The compulsory subjects of the colleges: Calculus, Introduction to Computer, Creativity and Intellectual Property Right. Students must pass these courses.																																		
三、系所基本要求 / Basic Requirement 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) 基本素養科目 14 學分 (2) 特色素養科目 4 學分 (3) 公民素養科目 4 學分 (4) 學院共同必修 4 學分 (5)專業必修科目 48 學分 (6)專業選修科目 24 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) Basic Literacy Courses: 14 credits (2) Distinctive Literacy: 4 credits (3) Civic Literacy Courses: 4 credits (4) The common compulsory subjects of the colleges: 4 credits (5) Professional compulsory courses: 46 credits (6) Professional elective courses: 26 credits (7) A maximum of 30 credits are recognized for courses, interdepartmental interest electives, and potential 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。 * Indicates computer used in this course.																																		
2.本系可因應計劃和產業需求修改選修課。 The elective courses may be modified by the department according to the needs of the program and industry.																																		
五、訂(修)定歷程 / Booking (Revised) History：																																		
1.113年07月29日機械工程系112學年度第2學期第4次課程委員會通過；113年08月06日安全工程學院113學年度第1學期第1次課程委員會通過；113年9月6日113學年度第1學期第1次校課程委員會通過。 2024/07/29 Department of Mechanical and Intelligent Manufacturing Engineering 112 academic year 2nd semester, adopted by the 4th Curriculum Committee conference. 2024/08/06 113 academic year 1st semester, adopted by the College of Safety and Engineering Curriculum Committee conference. 2024/09/06 113 academic year 1st semester, adopted by the 1st Curriculum Committee conference.																																		
2.114年06月16日機械與智慧製造工程系113學年度第2學期第3次課程委員會通過；114年07月25日安全工程學院113學年度第2學期第4次課程委員會通過；114年07月30日113學年度第2學期第6次校課程委員會通過。 114/06/16 Department of Mechanical and Intelligent Manufacturing Engineering 113 academic year 2nd semester, adopted by the 3rd Curriculum Committee conference. 114/07/25 113 academic year 2nd semester, adopted by the 4th College of Safety and Engineering Curriculum Committee conference. 114/07/30 113 academic year 2nd semester, adopted by the 6th Curriculum Committee conference.																																		