

吳鳳科技大學 日間部 四技 機械工程系 課程表 (112 學年度入學學生適用)

The Curriculum Framework for the Four-Year Bachelor Program of the Department of Mechanical Engineering at WuFeng University for the 112 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)			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		
基本素養 Basic Literacy	英文(一)/English	3	3	英文(二)/English	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 Literature	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 Originality and IPR	1	1																	
	勞作教育/Labor	1	1																							
	小計/Subtotal	8	8		7	7		3	3		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	4	4
院共同必修 Courses Required by the College	微積分/Calculus	2	2	計算機概論*/Introduction to Computer	2	3			創意發明與智慧財產權/ Creativity and Intellectual Property	2	2															
	小計/Subtotal	2	2		2	3		0	0		2	2		0	0		0	0		0	0		0	0	6	7
系專業必修 Courses Required by the Department	工廠實習(一)/Work Shop Practice (I)	1	3	工廠實習(二)/Work Shop Practice (I)	1	3	數控工具機實習(一)*/ Numerical Control Machine Practical Training (I)	2	2	數控工具機實習(二)*/ Numerical Control Machine Practical Training (II)	2	2	計算機程式*/Computer Program	2	2	機械設計實務/Mechanical Design	3	3	實務專題(二)/Mechanical Project (II)	1	1					
	機械製造/Processes Manufacturing	2	2	精密量測與實習/ Engineering Metrology and Practices	2	3	電機學/Introduction to Electrical Engineering	2	2	製造聯網整合技術/ Manufacturing Networking Integration Technology	2	2	熱力學/Thermodynamics	3	3	實務專題(一)/Mechanical Project (I)	1	1								
	物理(一)/ Physics (I)	2	2	物理(二)/ Physics (II)	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	數控工具機實習(三)*/ Numerical Control Machine Practical Training (III)	2	3	模具分析/Mold Analysis	3	3								
	機械製圖/Mechanical Drafting	1	3	工程材料/Engineering Materials	2	2	應用力學/Applied Mechanics	3	3	材料力學/Material Mechanics	3	3	智慧製造技術/Wisdom manufacturing technology	2	2	生產管理/Production Management	2	2								
							工業4.0概論/Introduction to Industry 4.0	2	2	機構學/Mechanicism	3	3	電腦立體繪圖(三)* /3D Computer Drafting (III)	2	2	CPS製造技術/CPS Manufacturing Technology	2	2								
							工程數學(一)/Engineering Mathematics (I)	2	2				液氣壓學與實習(一)/ Hydraulics and Pneumatics Laboratory (I)	2	2	液氣壓學與實習(二)/ Hydraulics and Pneumatics Laboratory (II)	2	2								
													精密製造/Precision Manufacture	2	2											
	小計/Subtotal	6	10		7	10		13	13		12	12		13	14		15	15		1	1		0	0	67	75
必修小計/Suntotal, Compulsory	16	20		16	20		16	16		16	16		15	16		15	15		1	1		0	0	95	104	
系專業選修 Elective Courses of the Department						工業安全與衛生/Industrial Safety and Sanitation	3	3	可程式控制器應用/The Application of Programmable Logical	3	3	創業實務/Entrepreneur	3	3	數控工具機實習(四)*/ Numerical Control Machine Practical Training (IV)	3	3	電腦輔助工程分析*/ Computer Aided Engineering Analysis	3	3	智慧型機器人/Intelligent Robot	3	3			
						校外實習(一)/Practical Training (I)	3	3	工程數學(二)/Engineering Mathematics (II)	3	3	工業4.0智慧工廠/Industry 4.0 Intelligent Factory	3	3	電控虛實整合實務/ Integration of Virtual Reality and Electronic Control	3	3	創意機構設計/Design of Innovational Mechanism	3	3	綠色能源概論/Introduction to Green Energy	3	3			
									校外實習(二)/Practical Training (II)	3	3	校外實習(三)/Practical Training (III)	3	3	電腦立體繪圖(四)* /3D Computer Drafting (IV)	3	3	物聯網與大數據於智慧製 造應用/IoT and Big Data in Smart Manufacturing Applications	3	3	逆向工程與快速原型/ Reverse Engineering and Rapid Prototyping	3	3			
													校外實習(四)/Practical Training (IV)	3	3			流體力學/Fluid Mechanics	3	3	電子裝置散熱實務/Heat Emmision of Electronic Device	3	3			
																		磨潤學/ Tribology	3	3	傳動機構實務/ Transmmision Mechanism	3	3			
																		機械振動學/Mechanical Vibration	3	3	品質管制/Quality Management	3	3			
																		校外實習(五)/Practical Training (V)	3	3	校外實習(六)//Practical Training (VI)	3	3			

該學期至少需選修學分/學時 Minimun Elective Credits Required for the Semester									3	3			3	3		6	6		9	9		9	9	30	30
學分/學時小計 Subtotal, Credits / Hours	16	20		16	20		16	16	19	19			18	19		21	21		10	10		9	9	125	134
潛能課程：至多25學分 Potential Courses: Up to 25 Credits	1. 通識護照：最多4學分 General Education Learning Passport: Up to 4 Credits 2. 社團發展：最多6學分 Club Development: Up to 6 Credits 3. 證照專利：最多6學分 Certificate and Patent: Up to 6 Credits 4. 競賽展演：最多6學分 Competition and Performance: Up to 6 Credits											5. 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. 校外實習：最多21學分 Field Practice: Up to 21 Credits 7. 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		1	1		0	0	0	0			0	0		0	0		0	0		0	0	3	3
畢業最低學分/學時 Total Number of Required Credits/Hour	18	22		17	21		16	16	19	19			18	19		21	21		10	10		9	9	128	137
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 :																									
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18學分(2)公民素養科目4學分(3)學院共同必修6學分(4)專業必修科目67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3學分 Graduation credit requirements: At least 128 credits, including (1) Basic Literacy Courses: 18 credits (2) Civic Literacy Courses: 4 credits (3) The common compulsory subjects of the colleges: 6 credits (4) Professional compulsory courses: 67credits (5) Professional elective courses: 30 credits (6) A maximum of 3 credits are recognized for courses, interdepartmental interest electives and potential courses (excluding off-campus internships).																									
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 :																									
112年08月21日機械工程系112學年度第1學期第1次課程委員會通過；112年08月24日安全工程學院112學年度第1學期第1次課程委員會通過；112年09月05日112學年度第1學期第1次校課程委員會通過。 2023/08/21 Department of Mechanical Engineering 112 academic year 1st semester, adopted by the 1st Curriculum Committee conference. 2023/08/24 112 academic year 1st semester, adopted by the 1st College of Safety and Engineering Curriculum Committee conference. 2023/09/05 112 academic year 1st semester, adopted by the 1st Curriculum Committee conference.																									