

吳鳳科技大學 日間部 日四技 電機工程系 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 Electrical Engineering at Wufeng University for the 112 Academic Year

科目類別 (Categorization 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		
基本學分 (Basic Literacy)	英文(一) English (I)	3	3	英文(二) English (II)	3	3	安全教育 Safe Education	1	1																	
	文學賞析與寫作 Chinese Literature Appreciate	2	2	華文能力表達 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	創意發明與智慧財產 Introduction to Originality and IPR	1	1																	
	勞作教育 Practical Training Education	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 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)	邏輯設計與實習* Logic Design and Laboratory	3	3	機電整合初論* Fundamentals of Mechatronics	3	3	工程數學 Engineering Mathematics	3	3	電子學(二) Electronics (II)	3	3	電機機械實習 Laboratory of Electric Machinery	1	3	自動控制 Automatic Control	3	3	實務專題(二) Special Projects (II)	2	2					
	電路學與實習(一) Electric Circuit and Laboratory (I)	3	4	電路學與實習(二) Electric Circuit and Laboratory (II)	3	4	電子學(一) Electronics (I)	3	3	電子實習(一) Laboratory of Electronics (I)	1	3	電子實習(二) Laboratory of Electronics (II)	1	3	實務專題(一) Special Projects (I)	2	2								
	工程圖學* Engineering Drawing	3	3				程式設計* Programming Language	3	3	電機機械 Electric Machinery	3	3	微處理器與實習* Microprocessor and Laboratory	3	3											
							可程式控制程式設計* PLC Programming	1	3																	
	小計/subtotal	9	10		6	7		10	12		7	9		5	9		5	5		2	2		0	0	44	54
必修小計/Subtotal, Compulsory	19	20		15	17		13	15		11	13		7	11		5	5		2	2		0	0	72	83	
專業選修 (Elective courses of the department)	Smart Technology 智慧科技類	電器修護實習 Electric Repairing Practices	3	3	機電整合實習* Mechatronic Practices	3	3	電動機控制實習* Motor Control Practices	3	3	自動化與驅動實習* Automation and Drives Practices	3	3	人機介面實習* Human Machine Interface Practices	3	3	PC-based馬達運動控制實習* PC-based Motor Control	3	3	機器視覺與影像處理* Machine Vision and Image Processing	3	3				
		自來水管配管實習 Water Supply Piping Practices	3	3	電腦輔助電工與機械製圖* Computer Aided Electrical and Mechanical Design	3	3	電路板設計實習* Circuit Board Design Practices	3	3	自動化組態控制實習* Automatic Control Module Practices	3	3	電子電路分析與模擬* Electronic Circuit Analysis and Simulation	3	3	EtherCAT馬達伺服控制實習* EtherCAT Servo Motor Control	3	3	工業節能與安全實習* Industrial Energy Conservation and Safety Practices	3	3				
					機構學 Mechanism	3	3	室內配線實習(一) Commercial Wiring Practices (I)	3	3	機電整合應用* Advanced Practices of Mechatronics	3	3	工業配線實習(二) Industrial Wiring Practices (II)	3	3	綠色能源工程 Green Energy Engineering	3	3	風力發電技術 Wind Power Generation Technology	3	3				
					工廠管理 Factory Management	3	3	工業配線實習(一) Commercial Wiring Practices (I)	3	3	工業安全衛生法規 Industrial Safety and Sanitation Regulations	3	3	電力系統概論 Introduction to Power System	3	3	建物照明與節能控制 Building Lighting and Energy Saving Control	3	3	冷凍空調設計與應用 Air Conditioning Design and Application	3	3				
											工業安全衛生法規 Industrial Safety and Sanitation Regulations	3	3				工程英文 Technical English	3	3	電動車輛實習 Electric Vehicle Driving Practices	3	3				
										室內配線實習(二) Commercial Wiring Practices (II)	3	3				期電設備檢修與維護 Power Consuming Equipment Inspecting and Maintenance	3	3								
										創業實務 Hospitality Industry Entrepreneurial Studies	3	3				電力電子學實習 Power Electronics Theory and Practices	3	3								
	Cross Interface Technology 跨領域介面技術類	工業4.0概論 Concept of Industry 4.0	3	3	感測元件應用* Applications of Sensing Element	3	3	圖控程式與自動量測* Graphical Programming and Automatic Measurement	3	3	綠能智慧建築控制技術 Green Energy Intelligent Building Control Technology	3	3	電控實習整合實務* Cyber-Physical System Practices on automation	3	3	大數據分析* Big Data Analysis	3	3	工業物聯網* Industrial Internet of Things	3	3				
		電腦硬體維修* Computer Maintenance	3	3	網路概論 Introduction to Network	3	3			嵌入式系統概論* Introduction to Embedded System	3	3	機聯網區應監控實務* Practices on Industry Internet of Machine Supervision	3	3	網路安全* Network Security	3	3	人工智慧概論* Introduction to Artificial Intelligence	3	3					
													智慧型機器人應用實習* Innovative Robot Control Practices	3	3				智慧物聯網應用實習* Intelligent IoT Application Practices	3	3					
												網路架設實習 Network Installation Practices	3	3												
該學期至少需選修學分/學時 minimum elective credits required for the semester	0	0		3	3		3	3		6	6		9	9		9	9		9	9		9	9	48	48	
學分/學時小計 Subtotal, Credits/Hour	19	20		18	20		16	18		17	19		16	20		14	14		11	11		9	9	120	131	
潛能課程: 至多25學分 Potential courses: up to 25 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6學分 2. Club Development: Up to 6 credits 3. 證照專利: 最多6學分 3. Certificate and Patent: up to 6 credits 4. 競賽展演: 最多6學分 4. Competition and Performance: up to 6 credits						5. 學程與跨系與地選修: 最多為本課程應修學分 5. Course and interdepartmental interest electives: up to credits required for this type of courses 6. 校外實習: 最多21學分 6. 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。 7. Please refer to "Key Points of Potential Courses of Wufeng University of Science and Technology" for detailed requirements of Potential Courses.																			
學程/潛能課程修課 分建議	0	0		0	0		3	3		2	2		3	3		0	0		0	0		0	0	8	8	
畢業最低學分/學時 Total Number of Required Credits/Hour	19	20		18	20		19	21		19	21		19	23		14	14		11	11		9	9	128	139	
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。						2. 各領域均為 0學分/2學時,可拆抵役期,各領域每學期開設情況,均依當學期教務處公告為準。																			
備註/Notes:	<p>一、校基本學分/BASIC requirements of the university: 1. 語言能力門檻: 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.</p> <p>二、院基本學分/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。學生必須修習及格。 The compulsory subjects of the college: Calculus, Introduction to Computer, Creativity and Intellectual Property Right. Students must pass these courses.</p> <p>三、系所基本學分/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)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44學分(5)專業選修科目48學分(6)學程、跨系與地選修與潛能課程8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: 44 credits (5) Professional elective courses: 30 credits (6) A maximum of 25 credits are recognized for courses, interdepartmental interest electives and potential courses (excluding off-campus internships).</p> <p>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) Fourth year: 9-25 credits.</p> <p>3. 校外實習修習學分: 參照吳鳳科技大學學生校外實習課程實施要點, 確以認定實習成績。 The Practical Training must meet the "Implementation of Wufeng University Students' Practical Training Course" to determine the internship results.</p> <p>四、其他說明/Other remarks 1. *表示需使用電腦課程。 Indicates that a computer course is required. 2. 本系可因應計劃和產業需求承接校務修課。 The department may modify elective courses according to the needs of the program and industry.</p> <p>五、訂(修)定課程/Revised (Revised) History: 112.07.10電機工程系111學年度第2學期第3次課程委員會通過; 112.08.22安全工程學院112學年度第1學期第1次課程委員會通過; 112.09.05 112學年度第1學期第1次課程委員會通過。</p>																									
112/07/10 Department of Electrical Engineering 112 academic year 2nd semester; adopted by the Fire Science Curriculum Committee conference. 112/08/24 112 academic year 1st semester, adopted by the College of Safety and Engineering Curriculum Committee conference. 112/09/05 112 academic year 1st semester, adopted by the 1st Curriculum Committee conference.																										