吳鳳科技大學 日間部　日四技　電機工程系 課程表 （115學年度入學學生適用）

The Curriculum Framework for the Four-Year Bachelor Program of the Electrical Engineering Department at WuFeng University for the 114 Academic

科目類別 (Categories of Courses)	第一學年(First Academic Year) 上(First Semester) 科目 Course Title	學分 Credit	時數 Hour	第一學年(First Academic Year) 下(Second Semester) 科目 Course Title	學分 Credit	時數 Hour	第二學年(Second Academic Year) 上(First Semester) 科目 Course Title	學分 Credit	時數 Hour	第二學年(Second Academic Year) 下(Second Semester) 科目 Course Title	學分 Credit	時數 Hour	第三學年(Third Academic Year) 上(First Semester) 科目 Course Title	學分 Credit	時數 Hour	第三學年(Third Academic Year) 下(Second Semester) 科目 Course Title	學分 Credit	時數 Hour	第四學年(Fourth Academic Year) 上(First Semester) 科目 Course Title	學分 Credit	時數 Hour	第四學年(Fourth Academic Year) 下(Second Semester) 科目 Course Title	學分 Credit	時數 Hour	小計 subtotal 學分 Credit	小計 subtotal 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 Originality and 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	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	電腦實務與程式應用*/Computer pratice 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)	電路學(一)/Electric Circuit and Laboratory (I)	3	3	電路學(二)/Electric Circuit and Laboratory (II)	3	3	電子學/Electronics	3	3	電子實習/Laboratory of Electronics	1	3	實務專題(一)/Special Projects (I)	2	2	實務專題(二)/Special Projects (II)	2	2								
	工程圖學* Engineering Drawing	3	3	機電整合初論*/Fundamentals of Mechatronics	3	3	工程數學/Engineering Mathematics	3	3	電機機械/Electric Machinery	3	3	電機機械實習/Laboratory of Electric Machinery	1	3											
							程式設計*/Programming Language	3	3	可程式控制器程式設計*/PLC Programming	3	3	微處理機與實習*/Microprocessor and Laboratory	3	3											
	小計/subtotal	6	6		6	6		9	9		7	9		6	8		2	2		0	0		0	0	36	40
必修小計/Subtotal, Compulsory		16	16		15	15		12	12		9	11		8	10		2	2		0	0		0	0	62	66
系專業選修 (Elective courses of the department)				電腦硬體裝修* Computer Maintenance	3	3	自來水管配管實務/Water Supply Piping Practices	3	3	室內配線實習(一)/Commercial Wiring Practices (Ⅰ)	3	3	室內配線實習(二)/Commercial Wiring Practices (II)	3	3	機電整合實務* Mechatronic Practices	3	3	機電整合進階應用* Advanced Practices of Mechatronics	3	3	機器視覺與影像處理*/Machine Vision and Image Processing	3	3		
							邏輯設計/Logic Design and Laboratory	3	3	工廠管理/Factory Management	3	3	自動化模組控制實習*/Automatic Control Module Practices	3	3	工業配線實務(一)/Industrial Wiring Practices (I)	3	3	PC-based馬達運動控制實習*/PC-Based Motor Control	3	3	自動化與驅動實務*/Automation and Driving Practices	3	3		
													創業實務/Hospitality Industry Entrepreneurial Studies	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 Practices	3	3	電路板設計實務*/Circuit Board Design Practices	3	3		
													創新電路學及其硬體實務/Innovative Circuits and Hardware Practice	3	3	創新電子學及其硬體實務/Innovative Electronics and Hardware Practice	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	人機介面實務*/Human Machine Interface Practices	3	3	冷凍空調設計與應用/Air Conditioning Design and Application	3	3		
																自動控制 Automatic Control	3	3	工業配線實務(二)/Industrial Wiring Practices (II)	3	3	電動車驅動實務/Electric Vehicle Driving Practices	3	3		
																			工程英文/Technical English	3	3					
				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	嵌入式系統概論*/Introduction to Embedded System	3	3	智慧型機器人應用實務*/Innovative Robot Control Practices	3	3	大數據分析*/Big Data Analysis	3	3	人工智慧概論*#/Introduction to Artificial Intelligence	3	3		
				網路概論/Introduction to Network	3	3										機聯網感應監控實務*/Pactices on Industy Internet of Machine Supervision	3	3	網路安全*/Network Security	3	3	工業物聯網*/Industrial Internet of Things	3	3		
																網路架設實務/Network Installation Practices	3	3	校外實習(一)	3	3	智慧物聯網應用實務*/Intelligent IoT Application Practices	3	3		
																			校外實習(二)	3	3	校外實習(五)	3	3		
																			校外實習(三)	3	3	校外實習(六)	3	3		
																			校外實習(四)	3	3	校外實習(七)	3	3		
																						校外實習(八)	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		3	3		3	3		6	6		9	9		9	9	36	36
學分/學時小計 Subtotal, Credits/Hour		16	16		18	18		15	15		12	14		11	13		8	8		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「吳鳳科技大學潛能課程修課要點」辦理。5. Please refer to "Key Points of Potential Course of Wufeng University of Science and Technology" for detailed requirements of Potential Course.																									
潛能課程學分/學時建議 Potential course credit/credit hour		0	0		0	0		6	6		6	6		6	6		6	6		4	4		2	2	30	30
畢業最低學分/學時 Total Number of Required Credits/Hour		16	16		18	18		21	21		18	20		17	19		14	14		13	13		11	11	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 information proficiency

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 pratice and programe application. 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36學分 (5)專業選修科目36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: 4 credits (4) Professional compulsory courses:36credits (5) Professional elective courses: 36 credits (6) A maximum of 30 credits are recognized for courses, interdepartmental interest electives

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：

115.06.26電機工程系114學年度第2學期第3次課程委員會通過；115.07.21安全工程學院114學年度第2學期第3次課程委員會通過；115.07.29 114學年度第2學期第6次校課程委員會通過。

115/06/26 Department of Electrical Engineering 114 academic year 2nd semester, adopted by the 3rd Curriculum Committee conference. 115/07/21 114 academic year 2nd semester, adopted by the College of 3rd Curriculum Committee conference. 115/07/29 114 academic year 2st semester, adopted by the 6st Curriculum Committee conference.