國立勤益科技大學114學年度進修部二年制電子工程系學分計畫表

Vational Chin-Yi University of Technology Continuing Education Division Curriculum for 2025 Two -Year Bachelor Program of Department of Electronic Engineering

> 113.11.11 課程委員會審議通過 113.11.20 113學年度第1學期第1次院課程會議審議通過 113.12.05 校課程委員會議及113.12.24 臨時教務會議審議通過

	I		期First Sei		12. 24 臨時教務會議番議題逈 下學期Second Semester			
科目	Courses	學分	正課	實習	學分	正課	實習	
	<u> </u> 共同必修科目(10學分)General Required Course	Credit		Internship	Credit	Lecture	Internship	
	第一學年First Year	5 (10C1 eu	115 110013	5)				
實用英文	Practical English	2	2	0		T	T	
中國文學	Chinese Literature			U	2	2	0	
	第二學年Second Year							
歷史與文化	History and Culture	2	2	0		T	Т	
憲法與民主	Constitution and Democracy			Ů	2	2	0	
藝術與哲學	Art and Philosophy				2.	2.	0	
2 1171 11	in v dna imrodopnj	上學	明First Se	mester	下學期	Second Se	emester	
科目	Courses	學分 Credit	正課 Lecture	實習 Internship	學分 Credit	正課 Lecture	實習 Internship	
	校訂必修科目(22學分)Department Required Cour	ses(22cr	edits hou	rs)				
	第一學年First Year							
電子電路 (一)	Electronic Circuits (I)	3	3	0				
工程數學 (一)	Engineering Mathematics (I)	3	3	0			1	
△DSP實務 (一)	Digital Signal Processing Practice (I)	3	3	0			1	
△DSP實務 (二)	Digital Signal Processing Practice (II)				3	3	0	
實務專題(一)	Project Study (I)				2	0	3	
工程數學(二)	Engineering Mathematics (II)		1		3	3	0	
電子電路(二)	Electronic Circuits (II)				3	3	0	
	第二學年Second Year	1				<u>. </u>		
實務專題 (二)	Project Study (II)	2	0	3		T	Τ	
X 40 4 7 C	Troject Study (11)	_	期First Sea	_	下學期	Second Se	emester	
科目	Courses	學分	正課	實習	學分	正課	實習	
	專業選修科目Department Electives	Credit	Lecture	Internship	Credit	Lecture	Internship	
	等来选修杆日Department Electives 第一學年First Year	Cour ses						
		n+ollimo	at Comput	ina				
網路概論	多媒體遊戲暨智慧運算Network Multimedia and Introduction to Network	3	3	0				
△視窗程式設計	Windows Programming	3	3	0		├──	┼	
數位信號處理	Digital Signal Processing	3	3	0		├──	┼	
遊戲企劃		3	3	0		 	 	
	Game Design Industrial Robot Programming	3	3	0		┼──	┼──	
△工業機器人程式設計		J	J	U	3	3	0	
虚擬實境	Virtual Reality				3	3	0	
機器學習	Machine Learning				3	3	0	
人工智慧	Artificial Intelligence							
嵌入式微處理器系統與實習	Embedded Microprocessor System and Practice	<u> </u>			3	3	0	
	智慧機器人Intelligent Robot Automation System Integration and	1	1					
自動化系統整合與應用	Applications	3	3	0	<u>. </u>			
△機器人程式設計(1)-初階工程 師	Robot Software Programming (1) - Junior Engineer	3	3	0				
嵌入式微處理器系統與實習	Embedded Microprocessor System and Practice	3	3	0			 	
控制系統	Control System	3	3	0			 	
機器視覺	Machine Vision	-		·	3	3	0	
自動化光學檢測概論	Introduction to Automatic Optical Inspection				3	3	0	
智慧感測與監控實務	Smart Sensor and Supervisory Control Practice	<u> </u>			3	3	0	
電力電子學	Power Electronics				3	3	0	
ピルモーナ	積體電路與系統應用Integrated Circuit and S	System Ar	nlication	<u> </u>	U		<u> </u>	
類比積體電路設計	Analog IC Design	3	3	0		Τ	Т	
積體電路製程	Integrated Circuit Manufacturing Process	3	3	0		 	+	
被入式系統應用	Embedded System Application	3	3	0		 	+	
電磁相容原理	Principle of Electromagnetic Compatibility	3	3	0		 	+	
	Introduction to Circuit Board Manufacturing	-	<u> </u>				+	
電路板製造與產業概論	and Industry	3	3	0			ļ	
數位IC導論	Introduction to Digital IC	3	3	0				
半導體設備概論	Introduction to Semiconductor Equipment	3	3	0				
半導體薄膜工程與元件	Semiconductor Thin Film Engineering and Components				3	3	0	
低功率積體電路設計	Low Power IC Design		1		3	3	0	
光電轉換導論	Introduction to Optical-Electrical Transfer				3	3	0	
高速PCB設計	High-Speed Printed Circuit Board Design				3	3	0	
· · · · · · · · · · · · · · · · · · ·	1 2 1		i			<u> </u>		

電能轉換電路設計	Design o	of Power Conv	ersion Circui	ts				3	3	0
			-1 1	econd Year						
	多媒體	遊戲暨智慧運	算Network Mult	imedia and I	ntellige	nt Compu	iting			
資料庫系統應用	Database	Database System Application				3	0			
作業系統		Operating System				3	0			
計算機結構	Computer	Computer Architecture				3	0			
遊戲物理導論	Introduc	Introduction to Game Physics				3	0			
虚實整合製作	Extended	Extended Reality Development				3	0			
數位成音(一)	Digital	Audio (I)			3	3	0			
深度學習應用	Applied	Deep Learnin	ıg		3	3	0			
3D動畫技術	3D Anima	ition Technol	ogy					3	3	0
物聯網概論	Introduc	tion to Inte	ernet of Thing	S				3	3	0
△雲端科技應用	Applied	Applied Cloud Computing						3	3	0
△嵌入式系統開發實習	Embedded	Embedded System Development and Practice						3	3	0
數位成音(二)	Digital	Digital Audio (II)						3	3	0
演算法	Algorith	Algorithms						3	3	0
		看	g 慧機器人Intel	ligent Robot	ics					
機器學習	Machine	Machine Learning			3	3	0			
自動化圖控介面	Automati	Automatic Graphical Control Interface				3	0			
可攜式電源設計	Portable	Portable Power Supply Design				3	0			
深度學習	Deep Lea	Deep Learning						3	3	0
工業無線通訊技術		Industrial Wireless Communication Technology						3	3	0
△機器人程式設計(2)-中階工程		Robot Software Programming (2) - Intermediate						3	3	0
師	Engineer 恭興		用 Integrated(Circuit and S	Svetem Ar	nlicatio	าก			
材料科學概論	1			orreart and t	3	3	0			T
射頻積體電路導論	_	Introduction to Material Science			3	3	0			+
電力電子積體電路設計		Introduction to RFIC Design Power Electronics IC Design				3	0			+
太陽能系統與應用		Solar Cell System and Application			3	3	0			
△嵌入式軟體設計實務		Embedded Software Design and Practice			3	3	0			
		Electromagnetic Compatibility of Standards					_			
電磁相容之標準與測試	and Test	and Test			3	3	0			
生醫感測器概論		Introduction to Biosensor Devices						3	3	0
IC測試技術		IC Test Technology						3	3	0
IC封裝技術		IC Package Technology						3	3	0
半導體元件模擬	Semicond	Semiconductor Device Simulation						3	3	0
運算放大器設計實務	Practica	Practical Design of Operational Ampliofilers						3	3	0
記憶體元件	Memory I	Memory Devices						3	3	0
微波工程導論		Introduction to Microwave Engineering						3	3	0
電磁相容實務	Practice	Practice of Electromagnetic Compatibility						3	3	0
		Courses				上學期First Semeste 學分 正課 實		下學期Second Semeste		emester
科目	Courses					正課 Lecture	實習 Internship	學分 Credit	正課 Lecture	實習 Internship
		井 同	選修科目Genera	1 Elective C	Ourses	Lecture	Internation	Credit	Lectore	Tinternamp
		7.17		econd Year	000					
通識課程	Liberal	Education Cu			2	2	0			
體適能與健康管理	_		l Health Manag	ement	2	2	0			1
休閒運動		and Sports	r near thi manage	omerre		Ť	Ť	2	2	0
通識課程		Education Cu	ırriculums					2	2	0
- Control of the Cont	Brooter	第一學年First Year				第二學年Second Year				
學分/時數統計 Credit/Hour Total	上	上學期 下學期			†	上學期		下學期		
		First Semester Second Semester			First Semes				Second Semester	
	學分 Credit	學時 Hour	學分 Credit	學時 Hour	學分 學時 Credit Hour		學分 Cred	學分 學時 Credit Hour		
必修科目學分/時數 Required Courses Credit / Hour	11	11	13	14	4		5	4		4
最低選修科目學分/時數 Minimum Electives Courses Credit / Hour	8	8	5	5	14		14	14		14
			+		+			1		

備註Note:

- -、 畢業至少應修滿 72 學分【必修 32 學分,選修至少 40 學分(其中至少需含本系專業選修 27 學分)】。 Students should complete at least 72 credits before graduation, including 32 required credits, 40 elective credits (elective credits should have at least 27 credits from department elective courses).
- 二、 選修通識課程包含性別平等、智慧財產權、海洋教育等相關課程;選修通識課程由通識學院協助開設。 Liberal Education Courses include gender equality courses、intellectual property courses、marine education courses, and these courses provided by College of General Education.
- 三、 课程名稱前有標示「 \triangle 」符號者,為「程式設計課程」。 Courses with a " \triangle " refers to an application design course.
- 四、 課程名稱前有標示「●」符號者,為「職能專業課程」。 Courses with a "●" refer to a professional competence course.
- 五、 課程名稱前有標示「AI」符號者,為「人工智慧相關課程」。 Courses with an "AI" refer to an artificial intelligence related course.
- 六、 為因應法規變更、評鑑建議或政府計畫規定等外在因素,本系保有調整學分計畫之權利。若有修訂,將於學期開始前公告,並明確說明修訂內容、影響範圍及相關配套措施,以保障學生權益。
 The department reserves the right to adjust the curriculum in response to external factors such as changes in regulations, suggestions of evaluation and accreditation, or government program regulations. If there are any revisions, will be announced before the start of the semester, and the revised content, scope of impact, and related supporting measures will be clearly stated to protect the rights and interests of students.