臺北城市科技大學四年制日間部電機工程系課程規劃表(113學年度入學適用)

TPCU four-year Undergraduate Program Day School Department of Electrical Engineering urriculum Planning(applicable to 113 semester year adimssion)

112年02月17日-1119年在第2學兩第12次該程包展長興會訂定 112年03月15日-1119年在第2學兩第12次該程包展長興會書籍 112年03月29日-1119年在東定學兩第12次該程包展長與會書籍 2023-02-17 111 academic year 2nd semester 1st committee of departer curiculum development reviewd 2023-02-29 111 academic year 2nd semester 1st committee of college curriculum development reviewd 2023-03-29 111 academic year 2nd semester committee of short or surviview development reviewd 2023-03-29 111 academic year 2nd semester committee of short or surviview development reviewd

			第一	學年			第二學年					2023-03-1: 2023-0 第三學年					e of department curriculum development revised titee of college curriculum development reviewed ittee of school curriculum development reviewed 第四學年			
類別 category	科目名稱 subject name	1st semester year 上 下 fall spring			F	科目名稱	2nd semester yea 上 下 fall sprin			F	科目名稱	3rd semester yea			下	科目名稱	4th semester year 上 下			下
		學分 credit	時數	學分 credit	ing 時數 hour	subject name	學分 credit	時數	· ·	時數	subject name	學分 credit	時數	學分 credit	時數		學分	時數 hour	學分	時數
	中文閱讀與寫作	2	2	crean	noui	體育(三)	2	2	credit	noui		credit	Hour	credit	Hour		credit	Tiour	credit	nour
	Chinese Reading and Writing 共同外語(一)			2	2	Physical education(III) 共同外語(二)(三)	2	2	2	_										
	Common Foreign Language (I) 體育(一)			2	2	Common Foreign Language(II)(III)	2	2	2	2									<u> </u>	
基礎通識	Physical education (I)	2	2																<u> </u>	
basic general education	體育(二)-高爾夫 Physical educationII-Golf 小計			2	2	小計					小計					小計			<u> </u>	
	subtotal 類別學分小計	4	4	4	4	subtotal	4	4	2	2	subtotal	0	0	0	0	subtotal	0	0	0	0
	14 1.共同外語課程需修滿6學分·學生於修課前即可選擇「英語」或「日語」為外語課程。 1. Common foreign language courses require 6 credits. Students can choose "English" or "Japanese" as the foreign language course before taking the course.																			
	2.選定語言後·不可異動。 2. Once the language is selected, it c				demis e	an encose English of Supu			·	ianga	age course service taking the cou				1		•	1		
	職場禮儀與口語表達 Workplace Etiquette and Oral Expression	2	2			法律與生活 Law and Life			2	2										
職用通識 career	職場應用文 Workplance Applied Chinese			2	2															
application general education	社會責任實踐(一)(二) Social Responsibility Practice (I) (II)	0	1	0	1															
	小計 subtotal	2	3	2	3	小計 subtotal	0	0	2	2	小計 subtotal	0	0	0	0	小計 subtotal	0	0	0	0
	類別學分小計 category credits subtotal										6									
多元通識 multiple general education	1. 「多元通識」由通識教育中心訂定預選課程,預要後列出應選修之人文藝術領域、自然科技領域及社會科學領域三類之應開課程後,每一領域至多選修4學分、共計8學分之課程。 1. The General Education Center would offer "Multiple General Education" courses selection for students to choose from. After the advance selection, the General Education center would list courses in the following three categories (domains): Arts and Humanities, Natural Technologies and Social Science. Students are to choose at most 4 credits from each category (domain), with the total of 8 credits.															and				
	2. 通識教育中心所公布各院、系、學程所提供之輔助課程·亦可承認為通識選修課程·能學生選修所隸屬之院、系及學程提供之課程·則不予承認。 2. Supplementary courses provided by various colleges, departments, and programs announced by the General Education Center can also be recognized as general elective courses. However, students taking elective courses provided by the colleges, departments, and programs to which they are affiliated will not be recognized. 3. 「名人議座」集跨預別理修課程。中任一門課(抵2學分)・以一次為限。															hey				
	 「名人講座」係跨類別選修課程・可抵「多元 3 "Celebrity Lectures" is a cross-category election 類別學分小計 						fied Gen	eral Cour	rses" (2 cı	redits),	limited to one time.									
	category credits subtotal			<u> </u>		科技應用				l		<u> </u>			<u> </u>	工程產業講座	<u> </u>	<u> </u>		
院訂必修 compulsory courses required by the college	工程通識 Engineering General Education	2	2			Application of Science and Technology			2	2	職涯講堂 Occupation Career Lecture	2	2			Engineering Industry Seminar			2	2
	小計 subtotal	2	2			小計 subtotal			2	2	小計 subtotal	2	2			小計 subtotal			2	2
	類別學分小計 category credits subtotal			ı		ı	l	ı	ı		8	ı			ı	ı				
專業必修 compulsory courses required by the college	電路學 Electric Circuit	3	3			電子學 Electronics	3	3			機器人學 Robotics	3	3							
	機器人程式入門 Elementary Robot Programs	2	3			電子電路設計貫務 Design and Implementation of	2	3			自動控制實務 Applications of Automatic Control System	2	4							
	電機機械實務 Practical of Electric Machinery	2	3			Flectronic Circuits 可程式控制實務 Programmable Logic	2	3			工業控制實務 Programmable Logic	2	4							
	工程數學					Controller 資訊應用實務					Controller 實務專題(一)(二)								<u> </u>	
	Engineering Mathematics			3	3	Practical of Applied Informations	2	3			見物寺域()(一) Practical Project(I) (II)	2	3	2	3				<u> </u>	
	電腦輔助設計製造 Computer Aided Design and Manufacturing			2	4	電力電子學 Power Electronics			3	3	電力系統 Power Systems			3	3					
	電腦軟體應用			3	3	微處理機實務 Practical of			2	3	工業機器人實務			2	4					
	Computer Software Applications 數位邏輯電路			2	3	Microprocessor 機電整合實務			2	4	Practical of Industrial Robotics 数位工廠實務			2	3					
	Digital Logic Circuit					Mechatronics Lab.					Practice of Digital Factory 物聯網設計實務			2	4				 	
	小計	7	9	10	13	小計	9	12	7	10	Design of Internet of Things 小計	9	14	11	17	小計	0	0	0	0
	subtotal 類別學分小計 category credits subtotal	,		=0		subtotal			•		subtotal 53					subtotal				
專業核心選修 professional core electives	校外實習(署一) Off-campus Internship(Summer I)			3	*	校外實習(暑二) Off-campus			3	*	校外實習(署三) Off-campus			3	*	校外實習(一) Off-campus Internship I	9	*		
	工業配電實務			3	3	Internship(Summer II) 氣壓控制實務 Pneumatic Actuating for	3	3			Internship(Summer III)					機器視覺實務	3	3		
	Industrial Distribution Practice				,	Automatic Equipment	,	,								Pratice of Machine Vision	3	,	<u> </u>	
						介面設計實務 Interface Design Practice			3	3						校外實習(二) Off-campus Internship (II)			9	*
																電機控制實務 Motor Control Training			3	3
	小計 類別學分小計	0	0	6	3	小計	3	3	6	3	小計 42	0	0	3	0	小計	12	3	12	3
專業選修 professional	category credits subtotal 工業4.0概論	3	3			電動車 Introduction to Electric	3	3			自動化工程概論	3	3			電力電子實務應用 Practical Application of	3	3		
	Introduction to Industry 4 通訊概論					Vehicle 專利寫作			_	_	Introduction of Automation 巨量資料分析					Power Electronics 嵌入式系統				
	Introduction to Communication	3	3			Patent Writing			3	3	Big Data Analysis 車用電子技術	3	3			Embedded Systems 信號量測與監控	3	3	<u> </u>	
	電氣訊號概論 Introduction to Electrical Signal			3	3						Introduction to Automotive Electronics	3	3			Signal Measurement and Monitoring	3	3	<u> </u>	
											感測器原理與應用 Principles and Applications of Sensors			3	3	數位影像處理 Digital Image Processing	3	3		
electives											切換式電源供應器 Switching Power Supply			3	3	再生能源 Renewable Energy			3	3
											光電概論 Introduction to Optoelectronic			3	3	電力品質 Power Quality			3	3
																雷射原理與應用 The Ories and Applications of Laser			3	3
	小計 subtotal 類別學分小計	6	6	3	3	小計 subtotal	3	3	3	3	小計 subtotal	9	9	9	9	小計 subtotal	12	12	9	9
	category credits subtotal 基礎通識basic general education:14										54 该准後始得列入畢業專業選修學分·以									
備註 remark	職用通識career application general education:6 多元通識multiple general education:8						s for gra	aduation	n majors	s. The e	electives at external departments, ar elective credits for majors set by eac						ifter app	oroval ca	in they	be
	院訂必修compulsory courses required by the college: 8 專業必修required for majors: 53					2.校外實習課程可任選下列三種 (1)暑期實習:需實習滿8周·名 (2)學期實習:需實習滿18周·	方式之- 每周40/	-實施: 時・共	·· 320小時	(含)以.										
	專業選修Professional electives: 39 (其中專業核心選修至少12學分) (including at least 24 credits of professional core electives: 12)					(3)學年實習:需實習滿36周· 2. Off-campus internship cour	每周40 ses can	小時・st be imp	‡1,440小 lemente	小時(含 ed in o		of more	than 320) hours (:-	nclusivo					
	專業核心選修超修學分可計入專業選修 Credits for overtaking major core electives can be counted into					(2) Semester internship: The (3) Internship during the aca	intern: ademic	ship is re year: Th	equired e intern	for 18 iship is	eeks, 40 nours per week, and a total weeks, 40 hours per week, and a tot required for 36 weeks, 40 hours per · · 並應符合相關外語能力、專業實務打	al of mo r week, a	re than 7 nd a tota	20 hours	(inclusiv	re).				
	major electives 畢業最低學分數minimum credits for o	graduat	ion : 12	8		Four-year day school studen	ts of ou	ır schoo	l, in add	lition t	、· 亚應符音相關外語能力、專業實務技 o completing the required credits in ctical skills in order to graduate.				ol's acac	demic regulations, must also me	eet the i	requiren	nents o	f