## Curriculum for Department of Electrical Engineering , 2023, Day School, Chienkuo Technology University

			一年級Freshma	an				二年級Sophme	ore				三年級Junior					四年級Senior						
				上學 Fir			平期 econd		上 <sup>月</sup> Fi	學期 ret		學期 cond		上点 Fi		下導 Seco			上導 Fin		下學 Seco		Tot	
			科 自 Course name	seme			mester	科 目 Course name		ester		nester	科 目 Course name	sem		sem		料 自 Course name	seme		seme			
			Course name	學分 Credit	時數 Hour	學 / Cree	計 dit Ho	較	學分 Credit	時 Hou		it Ho	t course name	學分 Credit	時數 Hour	學分 Credit	時數 Hour	course name	學分 Credit	時數 Hour	學分 Credit	時數 Hour	學分 Credit	時數 Hour
			國文	2	2	2	_	職場英文	2	2	_		博雅(一)	2	2	Crean	riour		Creun	Troui	Credit		Cicun	Hour
共同必			Chinese 英文	2	2	2	+	Workplace English 歴史與人生	1	2	+-	╁	Libral Arts (I) 博雅(二)	2					1			Н		
		通	English 運動與健康(一)(二)		-	_	_	Historiography & Life	2	- 2	+-	+	Libral Arts (II) 博雅(三)	2	2							Ш		
	诚 General Education		Exercise and Health(−)(≤)	2	2	2	2	Civil Society		<u> </u>	2	2	Libral Arts (III)			2	2					Ш		
	Genera	ii Education	藝術入門 The Gateway to Arts			2	2						博雅(四) Libral Arts (IV)			2	2							
			小計total	6	6	8	8	小計total	4	4	2	2	小計total	4	4	4	4	小計total	0	0			28	28
修 Common			基礎數學 Foundation mathematic:	3	3																			
Required		專	化學	2	2	2	2					T										Ħ		
		· 某	Chemistry 物理	3	3	3	_			+	+	+					<del>                                     </del>					H		
		礎	Physics 微積分	3	,	+-	+			╁	+-	+							-	H		Н		
	Professional Basics		Calculus			3	_			<u> </u>	4	_							<u> </u>					
			小計total	8	8	8	8		0	0	0	0	小計total	0	0	0	0	小計total	0	0	0	0	16	16
			數位邏輯與實習 Digital logic and experimental	3	4			電子學(一)(二) Electronics(1)(2)	3	3	3	3	專題製作(一)(二) Graduation Projects(1)(2)	1	2	1	2							
			计算機概論	3	3			電子實習(一)(二)	2	3	2	3	半導體概論與實習 practicum and Introduction to	3	4									
			Introduction to Computer Science		Ĺ		_	Electronics Practicum(1)(2)	<u> </u>	Ľ	ļ.	Ļ	Semiconductors	Ů								Ш		
	專		印刷電路板製作實習 PCB Design and Manufacturing Lal	2	3			電路學(一) Electronic Circuits (1)	3	3			科技英文 Technology Englist			2	2							
	業必		電腦軟體應用	1	2			微算機應用與實習(一)(二) Microcomputer Applications and	3	4	3	4	電子科技創意			3	3							
修 Professional Required			Application of computer software	·	Ĩ			Practicum (1)(2)		Ľ	ĺ	<u> </u>	Electronic-technology innovation				Ĺ					Ш		
		equired	計算機程式 Computer Programming			2	3	光電工程與實習 Photonic Engineering and Experiment			3	4												
			數位系統設計與實習 Digital Systems Design and Laboratory			3	4	物件導向程式設計 Object-Oriented Programming			3	3											1	ĺ
				<del>                                     </del>		H	+	jees Oriented i rograndining		H	+	+	<u> </u>						<del>                                     </del>	H		H		
			小計total	9	12	5	7	小計total	11	13	14	17	小計total	4	6	6	7	小計total	0	0	0	0	49	62
		必修合	‡†Total	23	26	21	_		15	17	_	_		8	10	10	11		0	0	0	0	93	106
$\neg$							T	工程數學(必選)	2	2	+-	Ť	技能實務訓練(必選)	3	4			工業安全與衛生	3	3		Ħ		
					H	H	+	Engineering Mathematics(Required		H	+	+	Practical technique training(Required) 電子學(三)				H	Industrial Safety & Health 智慧財產與專利申請實務	1		H	Н		
		基礎		1	1	1		電路學(二) Electronic Circuits (2)			3	3	電子學(三) Electronics(三)	3	3		1	Intellectual Property and The Practice of	3	3				
		基礎 indation		t	H	H	+	讯號與系統		t	3	3	校外實習	2	2		H	Patent Application 工業電子與實習	3	4	H	H		
				-	$\vdash$	⊢	+	Signals and System:	1	╁	+	Ŧ	Industrial practice	Ě	Ě		$\vdash$	Industrial Electronics Lab 電子產品生產實務		H	Н	Н		
				1		Ì						Ì	電磁學 Electromagnetics		Ì	3	3	Manufacture and Practice of Electronic	1		3	3		
				$\vdash$	H	t	+	宣動車導論	H	t	╁	t	Ì	$\vdash$	<del>                                     </del>		H	Troquets 香油器森島田由華司	+	H	H	H		
						Ì		電動車等論 Introduction to Electric Vehicles	3	3		1	物聯網應用實務	3	3			雲端服務應用與實習 Cloud Service Application and Practicum	3	4				
						t	1	網路架設	3	t.		T	人工智慧應用與實習	3	4			互動式網頁設計				П		
								Network Setup	3	3			Artificial Intelligence Application Practice	3	4			Active Web Page Programming	3	3				
	資 Informati	訊科技 on Technology						手機app程式设计 Smartphone app program design			3	3	智慧生活设计與實習 Smart Life Design and Practice			3	4	多媒體編輯實務 Multimedia editing practices			3	3		
								Smartpnone app program desigi		H		T	大數據應用設計			3	3	Multimedia editing practices	1			H		
						-	+		-	1	+-	+	Big Data Applications and Design 數位影像處理與實習				Ė.					H		
							_			<u> </u>	1	4	Digital image processing and experimen			3	4					ш		
					<u> </u>		4		_	<u> </u>		<u> </u>	<b>感测元件與應用實務</b>				<u> </u>		<u> </u>			ш		
								视窗程式设计 Windows Programming Languages	3	3			似湖元仟與應用賈樹 Introduction of common sensors and its	3	3			微控制器應用 Microprocessor application	3	3				
	應用電子 Applied electronics					-	+	windows r rogramming Languages	_	1	-	+	applications 圖控軟體程式设计與應用					印刷電路板進階設計與製作	-			Н		
		微電腦應用											Design and application of the graphic	3	3			Design and manufacture of printed circuit	3	3				
		Microcomputer applications				1	+			╁╌	+	+	control software Programm 資料撷取與信號量測分析			3	3	board advanced 嵌入式系統		H	3	3		
						-	4			<u> </u>	-	+	Data acquisition and measuring analysi			3	3	Embedded System Overview 系統晶片設計應用與實習			3	3		
																		水地面片 吹可 馬州 共 賞 System Chip Design- Application and			3	4		
						Η-	+		_	+-	+	+	I					Practice 超大型積體電路製程技術	1			=		
													真空設備及薄膜技術 vacuum thin film technology equipment	3	3			Very Large-Scale Integrated Circuit	3	3				
										H		T	電子材料			3	3	Process Technology 平面顯示器導論	3	3		H		
		光電半導體 Optoelectronic semiconductors				-	+		_	1	-	+	Electronic Materials LED照明系統之分析與設計				_	Introduction to Flat Panel Display		,		Н		
													Analysis and design of the LED lighting			3	3	材料分析 Analysis of Materials	3	3				
					H		+			+-	+	+	system 太陽能工程實務			3	3	半等體構裝技術			3	3		
						-	+		_	1	-	+	Practice of Solar Energy Engineering				_	Semiconductor Fabrication Technology	-		_	ŭ		
																		電池錯能系統設計 Design of Battery Energy Storage System			3	3		
				t	H	H	+			t	T	t			$\vdash$		H	LED品和製造與構裝	t	H	H	H	i	
			<u> </u>	L	L			<u> </u>	L	L		1		L	L		L	The technology of LED Die Manufacture and package	L	LI	3	3		
			嵌入式遊戲製作基礎與實習 Pacie and asperiment of embadded come			3	6	嵌入式單晶片應用實習 Embadded Micro controller Applied		Ī	3	6	嵌入式綠色節能技術與實習 Theory and Practice of Embadded Green			,	6	機器人之嵌入式系統設計與實作	3	_				
	Vocational	再造 l re-engineering	Basis and experiment of embedded game manufacture			3	6	Embedded Micro-controller Applied Practice			3	6	Theory and Practice of Embedded Green Energy Technology			3	6	Design and Implementation of Robotic Embedded Systems	3	0				
			全民國防教育軍事訓練(一)選修 National Defense Education Military	0	2	0	2					T						業界實習訓練研修(選修) Practice and Research on Mechanical	4	4				
			Training(I)(Elective)	<u> </u>	Ļ	Ľ	Ļ		<u> </u>	L	1_	1		<u> </u>	L		<u> </u>	industry(Elective)	<u> </u>	Ш	Ш	Ш		
			勞作教育 Labor Education	0.5	1	0.5	5 1					Ì			Ì			業界實習報告研修(選修) Report and Research on Mechanical	2	2				
				1	H	┢	+			╁	╁	+		-	-		H	industriy(Elective) 業界實習成果研修(選修)	1	H	H	$\dashv$	-	-
	校訂課程 Revision con		青春護照 Youth Passport	0.5	1	0.5	5 1					1			Ì			Practice Result and Research on	3	3				
	ACVISION COL	us 3C3		t	H	H	+			t	T	t			$\vdash$		H	Mechanical industry(Elective 業界實務能力研修(選修)	t	H	4	4		
				1	H	┢	+			╁	╁	+		-	-		H	Industrial Capabilities Training(Elective) 業界實務報告研修(選修)	1	H	2	2	-	
					<u> </u>	1	-			1	1	╄	1		_		<u> </u>	Industrial Capabilities Report(Elective) 業界實務成果研修(選修)	1	Н	2	2		_
				1		Ì						Ì			Ì			Industrial Capabilities	1		3	3		
			<u> </u>	1 24.49	歯がい	# A	14	95	北八	10	- II - V - Z^A	_	46	學分,	9.0	人体	40	Achievement(Elective) 學分)選修最低總學分數	1	ш	33	學分。		
					他學分 al num						·同必修 sorv.co		nd 49 credits of major compulsory courses)Th									ナガ。		
											ьогу со	urses	mu +2 creams or major compulsory courses) II	ic minir	an to	at numi	er or c	recuve creuns is 33 credits.						
				2.最低				128	學分。															
								a minimum of 128 credits for graduation. 用至少修習16學分,至多修習27學分。四	化细丝	単物で	5 小伙日	and a	5、在名保田36群众。											
				For the	first th	hree y	ears, st	udents must take at least 16 credits and no n	nore that				ester. For the fourth year, students must take :	at least 9	credit	s and no	more	than 36 credits per semester.						
				Student	s do n	ot nee	ed to tal	依序選修,但須修完博雅一~博雅四方可: ke the "Liberal Arts" courses (I to IV) in seq	#業。 juence, b	out the	ey must	comp	ete all four courses to graduate.											
				5.96.03	.06余章	课程身	與教學.	委員會議通過校外實習辦法。																
								m and Teaching Committee meeting approv 到規定,修滿應修之學分外,應取得相																
		/14	註		專業	能力	二、誰	文能力 三、電腦能力	ans a life	13		74												
								學生不受前項畢業門檻規定之限制。 the required credits according to the school's	s regulat	ions	student	s must	also obtain relevant certifications to demonstr	ate that	they no	ssess th	e follo	wing basic abilities in order to graduate:						
		N	ote	1. Pr	n addition to completing the required credits according to the school's regulations, students must also obtain relevant certifications to demonstrate that they possess the following basic abilities in order to graduate:  1. Professional ability  2. Language ability																			
					anguag omput																			
					s with	speci	al conc	litions are exempt from these requirements.																
								只採計18學分,多修學分採計為興趣選(					10 malia Additional vivings					and the final colored to the state of the st						
1								ns of the Ministry of Education, off-campus ·八畢業學分以12學分為限。(計畫課程除		mps o	ury cou	in Ior	18 credits. Additional credits will be counted a	is intere	si elect	ives and	wiii n	or or included in graduation credits.						
				The nur	nber o	of elec	tive co	urses taken in the School of Engineering tha	at can be	coun	ted tow	ards g	aduation is limited to 12 credits. (Except plan	ned cou	rses)									
								:脳軟體應用(1學分/2學時)、計算機程式( ollege of College of Engineering include: A					2學分/2學時)。 ware (1 credits/2 hours), Computer Programm	ing (2 c	redits/	hours)	and T	echnology English (2 credits/2 hours).						
				10.112.	03.01	条課者	医胸教:	學會議通過。112.03.16院課程與教學委員	會通過	• 112	2.03.31	校級部	程委員會通過。112.04.19教務會議訂定通	直 -										
				Passed	by the	Depa	rtment Acetic	Curriculum and Teaching Meeting on Marc g on April 19, 2023.	th 1 ,202	3 and	Passed	by th	Curriculum and Teaching Committee of the	College	on Ma	rch 16 ,2	:023 ar	nd Passed by the school-level curriculum cor	mmittee	on Ma	rch 31 ,2	2023 an	d approv	ed by C
				ricaden	ac Aff	aurs N	viceting	5 on April 19, 2023.																