建國科技大學 日間部 111學年度入學 四年制 電子工程系 開課表

Curriculum for Department of Electrical Engineering , 2022, Day School, Chienkuo Technology University

			一年級Freshmi	an				二年級Sophmo	ore				三年級Junior					四年級Senior				1		
			科目		朔	下導		_ / 100-2	上學期 下學期				— Tayanor		上學期 下 First So			- 1	上學期 First		下學期		습하 Total	
					st ester	Second semester		料目	Fin		Sec		科目		rst ester	Seco		料目	Fin		Second semester		,	
			Course name	學分	時數	學分	時數	Course name	學分	時數	學分		Course name	學分	時數	學分	時數	Course name	學分		學分 時	板 學分	時數 Hour	
			m v	Credit	Hour	Credit		ah ist at v	_		Credit	Hour	Mistar)	Credit	Hour	Credit	Hour		Credit	Hour	Credit Ho	ur Credit	Hour	
共 同 必 修 Common Required			國文 Chinese	2	2	2	2	職場英文 Workplace English	2	2			博雅(一) Libral Arts (I)	2	2							4		
		通	英文 English	2	2	2	2	歷史與人生 Historiography & Life	2	2			博雅(二) Libral Arts (II)	2	2									
	_	議	運動與健康(一)(二) Exercise and Health(一)(二)	2	2	2	2	公民社會 Civil Society			2	2	博雅(三) Libral Arts (III)			2	2					1		
	General 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	
			基礎數學 Foundation mathematic:	3	3																			
		專業	化學 Chemistry	2	2	2	2															1		
		基礎	物理 Physics	3	3	3	3																	
	Profess	ional Basics	微積分 Calculus			3	3																	
			小計total	8	8	8	8	小計total	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					1		
			計算機概論 Introduction to Computer Science	3	3			電子質習(一)(二) Electronics Practicum(1)(2)	2	3	2	3	工業電子與實習 Industrial Electronics Lab	3	4									
			印刷電路板製作實習 PCB Design and Manufacturing Lab	2	3			半導體概論與實習 practicum and Introduction to	3	4			科技英文 Technology English			2	2							
	專業		電腦軟體應用	1	2			Semiconductors 電路學(一)	3	3			電子科技創意			3	3					┪		
	· 必 修		Application of computer software 計算機程式					Electronic Circuits (1) 微算機應用與實習(一)(二)					Electronic-technology innovatior									┪		
P	rofessional Re	equired	Computer Programming			2	3	Microcomputer Applications and Practicum (1)(2)	3	4	3	4										1		
Ī			數位系統設計與實習 Digital Systems Design and Laboratory			3	4	光電工程與實習 Photonic Engineering and Experiments			3	4			1				_			1	1 1	
			7					物件等向程式設計 Object-Oriented Programming			3	3										7	1 1	
L			小針total	9	12	5	7	小針total	14	17	14	17	小針total	4	6	6	7	小計total	0	0	0 0		66	
		必修合	‡†Total	23	26	21	23	ar de del III (o 1811	18	21	16	19	In an also de sur als / · · · · · · · ·	8	10	10	11	er alle ete Ar ele kla e	0	0	0 0	96	110	
								工程數學(必選) Engineering Mathematics(Required	2	2			技能實務訓練(必選) Practical technique training(Required)	3	4			工業安全與衛生 Industrial Safety & Health	3	3		4	1 1	
								電路學(二) Electronic Circuits (2)			3	3	電子學(三) Electronics(三)	3	3			智慧財產與專利申請實務 Intellectual Property and The Practice of	3	3		1	1 1	
		基礎 indation		-	1	1	-	訊號與系統	1	H		1	Electronics(二) 校外實習		-		-	Patent Application 電子產品生產實務	1	\vdash		+		
							L	以宪典系统 Signals and Systems			3	3	Industrial practice	2	2		L	Manufacture and Practice of Electronic Products		$oxed{oxed}$	3 3			
													電磁學 Electromagnetics			3	3	電子產品銷售實務 Electronic products sales practices			3 3	1		
		·						生活資通訊等論 Introduction of life information and	3	3			物聯網應用與實習	3	4			動畫製作與實習	3	4		1	1 1	
					<u> </u>	<u> </u>		communication	<u> </u>			<u> </u>	Internet of Things application and Practicum					Animation and internships	<u> </u>	\vdash	-	4		
								手機app程式设计 Smartphone_app_program design			3	3	人工智慧應用與實習 Artificial Intelligence Application Practice	3	4			互動式網頁設計 Active Web Page Programming	3	3				
		讯科技											智慧生活设計與實習 Smart Life Design and Practice			3	4	遊戲程式設計 Design of game program			3 3	7		
	Information	on Technology											大數據應用設計與實習			3		多媒體編輯實務			3 3	†		
													Design and Practicing for Big Data Applications			3	4	Multimedia editing practices			3 3	1		
													雲端服務應用與實習 Cloud Service Application and Practicum			3	4							
													数位影像處理與實習 Digital image processing and experimen			3	4							
業選								视窗程式设计	3	3			感測元件與應用實務 Introduction of common sensors and its	3	3			微控制器應用與實習 Application and experiment of	3	4				
修	應用電子 Applied electronics							Windows Programming Languages 印刷電路板進階設計與製作	1				applications 圖控軟體程式设计與應用					microprocessor 微控制器周邊應用與實習				┥		
Professiona 1 Elective		微電腦應用 Microcomputer						Design and manufacture of printed circuit board advanced	t		3	3	Design and application of the graphic control software Programm	3	3			The microcontroller peripherial applications and experiments			3 4			
		applications						sourd advanced					資料撷取與信號量測分析 Data acquisition and measuring analysi			3	3	嵌入式系統與實習 Embedded System and Experiment			3 4	1		
													Data acquisitori and incusaring analysi					系統晶片設計應用與實習 System Chip Design- Application and			3 4	7		
					<u> </u>							<u> </u>			<u> </u>			Practice			,			
													真空設備及薄膜技術 vacuum thin film technology equipment	3	3			超大型積體電路製程技術 Very Large-Scale Integrated Circuit	3	3				
									1				LED照明系統之分析與設計					Process Technology 有機發光元件				┪		
		光電半導體 Optoelectronic semiconductors											Analysis and design of the LED lighting system			3	3	OrganicLight-emitting Devices	3	3		1		
													雷射原理與應用 Laser Principles & Applications			3	3	背光板顯示器之分析與設計 Back-Light Module of LCD Analysis and	3	3				
1									\vdash	H			太陽能工程實務		H	3	3	Design 半等體構裝技術			3 3	+	1 1	
									\vdash	H			Practice of Solar Energy Engineering		H	-	É	Semiconductor Fabrication Technology 平面顯示器導論			3 3	4	1 1	
										H								Introduction to Flat Panel Display LED品和製造與構裝	\vdash	\vdash		+	1 1	
				L	L	L	L	<u></u>	L	L		L		L	L		L	The technology of LED Die Manufacture and package			3 3	1	1 1	
		技職 再造	嵌入式遊戲製作基礎與實習 Basis and experiment of embedded game			3	6	嵌入式單晶片應用實習 Embedded Micro-controller Applied			3	6	嵌入式線色節能技術與實習 Theory and Practice of Embedded Green			3	6	機器人之嵌入式系統設計與實作 Design and Implementation of Robotic	3	6			1 1	
\vdash	Vocational	l re-engineering	manufacture 全民國防教育軍事訓練(一)選修					Practice					Energy Technology					Embedded Systems 業界實習訓練研修(選修)					\vdash	
1			National Defense Education Military Training(I)(Elective)	0	2	0	2											Practice and Research on Mechanical industry(Elective)	4	4		1		
			勞作教育	0.5	1	0.5	1											業界實習報告研修(選修) Report and Research on Mechanical	2	2				
			Labor Education	ļ	Ė	ļ	Ŀ		<u> </u>	Щ					-			industriy(Elective) 業界實習成果研修(選修)	Ė	Ě		1	ш	
	校訂課者 Revision con		青春護照 Youth Passport	0.5	1	0.5	1											東作員省成本可形(建市) Practice Result and Research on Mechanical industry(Elective	3	3		1	1 1	
Ī	ACC ATSHOLD COL	and official							t									Mechanical industry(Elective 業界實務能力研修(選修) Industrial Capabilities Training(Elective)			4 4	1	\Box	
Ī																		Industrial Capabilities Training(Elective) 業界實務報告研修(遷修) Industrial Capabilities Report(Elective)			2 2	1		
Ī																		業界實務成果研修(選修)	t		3 3	1	\Box	
																		Industrial Capabilities Achievement(Elective						
						数合計 her of c		98 sory credits is 98 credits (46 credits of con	學分。 mmon.co			rees or	46 ad 52 credits of major compulsory courses)Th					學分)選修最低總學分數 lective credits is 30 credits (A maximum of			(外系選修号 lective credi		(12學分)	
			The total number of compulsory credits is 98 credits (46 credits of common compulsory courses and 52 credits of major compulsory courses) The minimum total number of elective credits is 30 credits. (A maximum of 12 credits of elective credits from estepartments will be recognized).																					
1							nires a	128 minimum of 128 credits for graduation.	學分。															
						三年級台	學期	至少修習16學分,至多修習27學分。四	年級每年	- 期至	少修習	9學分	·至多修習36學分。					1 76 19						
						独四可	F必依	序選修,但須修完博雅一~博雅四方可;	華業・				ester. For the fourth year, students must take a	it least 9	erean	s and no	more	man 36 credits per semester.						
					.06余	果程與非	炎學委	the "Liberal Arts" courses (I to IV) in seq 員會議通過校外實習辦法。																
								n and Teaching Committee meeting approv 月規定,修滿應修之學分外,應取得相																
					專業	能力二	、語:	と能力 三、電腦能力	· month.	- s.de #		100												
					ion to	comple	ting th	生不受前項畢業門極規定之限制。 e required credits according to the school's	s regulati	ons, st	udents	must a	also obtain relevant certifications to demonstra	ate that	they po	ssess th	follo	wing basic abilities in order to graduate:						
					anguag	onal abi	,																	
				3. C	2. Language ability 3. Computer ability tudents with special conditions are exempt from these requirements.																			
Ī				7.依教	students want spectar containous are excupa from make requirements. - 《教育部规定校外曹召兄徐讨18号分,多房号分徐寸鸟典趣逐停不列入毒案學分。 - According to the regulations of the Ministry of Education, off-campus internships only count for 18 credits. Additional credits will be counted as interest electives and will not be included in graduation credits.																			
				Accord	ing to	the regu	lation		internsh			t for 1	8 credits. Additional credits will be counted a	s intere	st elect	ives and	will n	ot be included in graduation credits.						
				The nu	mber o	f electiv	e cou	ses taken in the School of Engineering tha	at can be				aduation is limited to 12 credits. (Except plans	ned cou	rses)									
								る軟體應用(1學分/2學時)、計算機程式(lege of College of Engineering include: A					學分/2學時)。 ware (1 credits/2 hours), Computer Programmi	ing (2 c	redits/3	hours)	and T	echnology English (2 credits/2 hours)						
Ī											程委員會通過。112.04.19教務會議訂定通:													
				Passed	by the	Departi	nent C		h 1,202	and F	assed l	by the	Curriculum and Teaching Committee of the C		on Ma	ch 16 ,2	023 an	d Passed by the school-level curriculum						
				commit	.ce on	waren	. i ,20.	L. and approved by C10 Academic Affair	a sacetii	g on A	фін 19	, 2023	*											