國立勤益科技大學日間部四年制 110 學年度電機工程系學分計畫表

National Chin-Yi University of Technology

Curriculum Planning of 2021 Four-Year Degree in Department of Electrical Engineering

110.04.19. 系課程委員會議及 110.04.22. 系務會議審議通過 110.05.11. 院課程委員會議審議通過 110.05.25. 校課程委員會議及 110.06.15. 教務會議審議通過

		110.05.25.校課程委員會議及 110.06.15.教務會議審議通過 上學期 Fall Semester 下學期 Spring Semester						
 科目	Courses	上學! 學分	明 Fall Ser 正課	nester 會習	下學期 學分	Spring Se 正課		
		子分 Credit	上 Lecture	貝首 Internship	子分 Credit	Lecture	實習 Internship	
	共同必修科目(30學分) General Required Cours	ses (30cr	edits hou	ırs)				
	第一學年First Year							
國文(一)	Chinese (I)	3	3	0				
大一英文(一)	Freshman English (I)	2	2	0				
英文聽講(一)	Listening and Speaking (I)	1	1	0				
體育(一)	Physical Education (I)	0	2	0				
全民國防教育軍事訓練(一)	All-Out Defense Education Military Training (I)	0	2	0				
勞作與社會服務教育(一)	Labor and Social services Education (I)	0	0	1				
藝術鑑賞	Art Appreciation	1	1	0				
國文(二)	Chinese (II)				3	3	0	
大一英文(二)	Freshman English (II)				2	2	0	
英文聽講(二)	Listening and Speaking (II)				1	1	0	
體育(二)	Physical Education (II)				0	2	0	
全民國防教育軍事訓練(二)	All-Out Defense Education Military Training (II)				0	2	0	
勞作與社會服務教育(二)	Labor and Social services Education (II)				0	0	1	
音樂鑑賞	Music Appreciation				1	1	0	
	第二學年Second Year							
憲法與民主	Constitution and Democracy	2	2	0				
體育(三)	Physical Education (III)	0	2	0				
博雅通識課程	Liberal Education	2	2	0				
博雅通識課程	Liberal Education	2	2	0				
體育(四)	Physical Education (IV)				0	2	0	
博雅通識課程	Liberal Education				2	2	0	
	第三學年Third Year							
歷史與文化(一)	History and Culture (I)	2	2	0				
博雅通識課程	Liberal Education	2	2	0				
歷史與文化(二)	History and Culture (II)				2	2	0	
博雅通識課程	Liberal Education				2	2	0	
	第四學年Fourth Year(無必修課程No Genera	Required	l Courses)					
	專業必修科目(71 學分) Department Required Co	urses(71 c ı	redits ho	urs)				
	第一學年First Year							
●微積分(一)	Calculus (I)	3	3	0				
●物理(一)	Physics (I)	3	3	0				
●電路學(一)	Electric Circuit Analysis (I)	3	3	0				
●計算機概論	Basic Concept of Computer	3	3	0				
●邏輯設計	Logic Circuit Design	3	3	0				
●微積分(二)	Calculus (II)				3	3	0	
●物理(二)	Physics (II)				3	3	0	
●電路學(二)	Electric Circuit Analysis (II)				3	3	0	
●△計算機程式	Computer Program				3	3	0	
●△計算機程式實習	Computer Programming Practice				1	0	3	
●工業配電設計	Industrial Distribution Design				3	3	0	
	第二學年Second Year							
●電子學 (一)	Electronics (I)	3	3	0				
●電子實習(一)	Electronics Lab (I)	1	0	3				
●工程數學(一)	Engineering Mathematics (I)	3	3	0				
●△微處理機及實習	Microprocessor Experiment	3	2	2				
●工業配電設計實習	Industrial Distribution Design Practice	1	0	3				
●電子學 (二)	Electronics (II)				3	3	0	
●電子實習 (二)	Electronics Lab (II)				1	0	3	
●工程數學 (二)	Engineering Mathematics (II)				3	3	0	
●電機機械	Electric Machinery				3	3	0	
●電力電子學	Power Electronics				3	3	0	
	_1	1	1	1				

	第三學年Third	Year					
●實務專題 (一)	Project study (I)	2	0	6			
●電機機械實習	Electric Machinery Practice	1	0	3			
●自動控制	Automatic Controls	3	3	0			
●電機控制	Motor Drives	3	3	0			
●電力電子學實習	Experiments of Power Electronics	1	0	3			
●實務專題 (二)	Project study (II)				2	0	6
●電力系統	Power System				3	3	0
●電機控制實習	Motor Drives Experiment				1	0	3
第四學年Fourth Year(無排定必修課程No Department Required Courses)							

		上學期 Fall Semester			下學期 Spring Semester		
科目	Courses	學分	正課	實習	學分	正課	實習
		Credits	Lecture	Internship	Credits	Lecture	Internship
	共同選修科目 General Elective						
	第一學年 First Year(無排定共同選修課程 No Ger	neral Elec	ctive Cour	ses)			
	第二學年 Second Year						
全民國防教育軍事訓練(三)	All-Out Defense Education Military Training (III)	1	2	0			
全民國防教育軍事訓練(四)	All-Out Defense Education Military Training (IV)				1	2	0
	第三學年 Third Year						
體育選修	Physical Elective Course	1	2	0	1	2	0
全民國防教育軍事訓練(五)	All-Out Defense Education Military Training (V)	1	2	0			
	第四學年 Fourth Year						
體育選修	Physical Elective Course	1	2	0	1	2	0
	專業選修科目 Department Electiv	e Courses	5	-	-	-	
	第一學年 First Year						
計	算機應用領域選修 Computer Application	Field E	lective	Courses			
● 小 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Digital IC Application Design and	3	2	2			
●數位 IC 應用設計及實習	Experiment	3	Δ	Δ			
●數位電路晶片設計及實習	CPLD/FPGA Chip Application Design and Practical				3	2	2
機電控制領域選修 Mec	hanical & Electrical Control Field Elective	Course	s&Electri	calControl	機電控制	領域選修	
●△可程式控制與實驗	Programmable Control and Experiment	3	2	2			
●△機電概論	Mechatronics	3	3	0			
●系統晶片概論	Introduction to System on Chip				3	3	0
	電能科技領域選修 Power & Energy Technology Fie	eld Elec	tive Co	urses			
●電機概論	Introduction to Electric				3	3	0
●電腦輔助繪圖設計及實習	Computer Aided Drawing (CAD) and Practice				3	2	2
	其它專業選修課程 Other Electiv	e Courses					
●光電概論	Introduction to Electro-optics	3	3	0			
●能源應用	Energy Application	3	3	0			
●電機工程概論與職場倫理	Introduction to Electrical Engineering and Ethics in Worksite	1	1	0			
●生命關懷	Caring for Life				3	3	0
●工程日文	Engineering Japanese				3	3	0
	第二學年 Second Year						
計	算機應用領域選修 Computer Application	Field E	lective	Courses			
●△視窗程式設計及實習	Windows Programming and Experiments	3	2	2			
●△圖控程式設計及實習	Graphical computer program and experiment	3	2	2			
●△物件導向程式設計及實習	Object Oriented Programming and Practice	3	2	2			
●信號與系統	Signals and Systems				3	3	0
●電腦網路概論	Introduction to Computer Network				3	3	0
●△Python 程式設計	Basic Python programming				3	3	0
●工程儀表與量測	Instrumentation and Measurement				3	3	0
●印刷電路設計及實習	Development and assessment of a printed				3	2	2
●中侧电路改引及具自	circuit board				J	<i>L</i>	۷.
機電	控制領域選修 Mechanical & Electrical Contro	l Field	Electiv	e Course	S		
●油氣壓應用	The Application of Fluid Power System and Pneumatics	3	3	0			
●介面控制及實習	Interface Control & Experiments				3	2	2
●工業電子學及實習	Industrial Electronics/Experiments				3	2	2
	直能科技領域選修 Power & Energy Technology F	ield El	ective (Courses			
●消防工程設計	Design of fire fighting system	3	3	0			
●分散式發電技術簡介	Introduction to Distributed Generation Technology	3	3	0		<u> </u>	

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公司	●電能儲存技術	Energy Storage Technologies						-
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機能体験 Probability		<u> </u>	3	3	U			
●終注彙性	●網路語言 I/O 應用及實習					3	2	2
多元共平 Third Year	●線性代數					3	3	0
# 接近用領域運作 Computer Application Field Elective Courses ●通讯系統 Commitation System 3 3 3 0 0	●機率					3	3	0
# 接近用領域運作 Computer Application Field Elective Courses ●通讯系統 Commitation System 3 3 3 0 0	●師徒實務專題(一)					3	0	3
近点核			L					
近点核	計	算機應用領域選修 Computer Application	Field E	lective	Courses			
Bebedded system design and experiment								
●数性が表現性及實習		2	3	2	2			
● 手業を結婚			3	2	2			
●季素栄養患用及實質								
●行動が他同母音務 Proticial Programming of Mobile Value-Added 3 2 2 ●△Python 程式應用 Applications for Python 3 3 0 ●△PAILLAR 建式设计及背景 Applications for Python 3 2 2 ●△READ 建筑原用及背骨 Millian Millian Programming and Practice 3 2 2 ●超大型核體で成分式管質 Microcontroll Control Freight 3 2 2 ●超大型核體で成功分支管列 Introduction to Very Large Scale Integration (USI) Design and Experiment 3 2 2 ●Android Application Development and Practice 3 2 2 ●Android Application Development and Practice 3 2 2 ●△Application/Experiments 3 2 2 2 ●△Application/Experiments 3 2 2 2 2 ● Application/Experiments 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 2			3					
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●△微楼育悉島用及實質 Microcontroller Application and Practice 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	●△Python 程式應用	Applications for Python	3	3	0			
●電腦受禮素修實務	●△MATLAB 程式設計及實習	MATLAB Programming and Practice	3	2	2			
● 使大型糠糠電路改计及實質	●△微控制器應用及實習	Microcontroller Application and Practice				3	2	2
●△Android 惠用程式及實質	●電腦硬體裝修實務	Computer hardware decoration Practice				3	2	2
◆ △Android 惠州 程政及實質	■招上刑務贈雲敗弘計及實羽	Introduction to Very Large Scale Integration				2	9	9
◆ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □								_
機変控制領域選移 Mechanical & Electrical Control Field Elective Courses ●△人機介面設計及實習								
◆△人検介面設計及實習 Human Computer Interface Design and Practice 3 2 2 ●成別落應用及實習 Sensor Application/Experiments 3 2 2 ●使作D應用 RFID theorem and practice 3 3 0 ●解释交換技術 Internet Switching Technology 3 2 2 ●物解阅電子系統應用棄設計 IoT Electronic Systems 3 3 0 ●上醫感測技術實習 Biosensing Technology and Practice 3 3 0 ●在醫感測技術實習 Biosensing Technology and Practice 3 3 0 ●角膜皮別機等人學 Intelligent Electronics System 3 3 0 ●角膜内療統 Control System 3 3 0 ●放射系統 Control System 3 3 0 ●放射系統 Control System 3 3 0 ●放射系統 Control System 3 3 0 ● 放射系統 Control System 3 3 0 ● 原理電生を選出を表現で表現で表現で表現で表現で表現で表現で表現で表現で表現で表現で表現で表現で表						_	2	2
● 疾闭匿應用及實習						S	l .	
● 生醫工程概論								
●RFID 應用 RFID theorem and practice 3 3 3 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, ,, _ ,, ,,		_					
● 開助交換技術		0 0						
● 動物網電子系統應用與設計		-	_					
●[AI]智慧型機器人學								
● 生醫感測技術實習		-						
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●照明設計 Lighting Design 3 3 0 ●高電壓工程 High Voltage Engineering 3 3 0 ●太陽能面板設計原理 Design Principles of Solar Panel 3 3 0 ●燃料電池概論 Introduction to Fuel Cells 3 3 0 ●再生能源技術 Renewable Energy Technology 3 3 0 ●燃料電池技術開發與應用 Fuel Cell Development and Application 3 3 0 ●電勝輔助電機設計及實習 Computer aided design (CAD) of electrical machinery & practice 3 3 2 2 ●電池概論 Introduction to Batteries 3 3 0 ●電化學動力技術: 二次電池 Electrochemical Power Technology: Secondary Battery 3 3 0 ●電力電子實務 Practice of Power Electronics 3 3 0 ●電子電路 Electronic Circuit 3 3 0 ●線各分析 Network Analysis 3 3 0 ●線座能源工程 Green Energy Engineering 3 3 0 ●線座化源工程 Basic Electromagnetics 3 3 0 ● 線性 IC 應用及實習 Linear IC Applications								
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●網路分析 Network Analysis 3 3 0			e Courses		_	_	_	
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●電磁學 Basic Electromagnetics 3 3 0	●網路分析	Network Analysis	3		0			
●線性 IC 應用及實習 Linear IC Applications and Experiments 3 2 2				-	0			
			3	3	0			
●[AI]模糊理論及應用 Fuzzy Theory and Applications 3 3 0								<u> </u>
	●[AI]模糊理論及應用	Fuzzy Theory and Applications				3	3	0

●△網路監控程式設計及應用	Design and Application of Network Monitoring				3	2	2
●數位通訊系統	Digital Communication System				3	3	0
●資訊網路	Information Networks				3	3	0
O X siderite	第四學年 Fourth Year				Ü		
計	算機應用領域選修 Computer Application	Field E	lective	Courses			
●電腦軟體應用及實習	Computer software application and practice	3	2	2			
●多媒體應用	Multimedia Technology and Application	3	3	0			
●電控系統	Electrical Control	3	2	2			
●網路多媒體嵌入式系統設計	Network Multimedia Embedded System Design	3	2	2			
●雲端運算技術	Cloud Computing Technology	3	3	0			
●DSP 晶片應用及實習	DSP Chip Applications and Experiments	0		0	3	2	2
●高科技專利取得與攻防	High Tech Patent Application & Protection				3	3	0
●△數位信號處理及實習	Digital Signal Processing and Practice				3	2	2
	控制領域選修 Mechanical & Electrical Contro	l Field	Electiv	e Course	_		
●控制系統實務	Control System Practice	3	2	2			
●系統動態模擬	System Dynamic Simulation	3	2	2			
●系統晶片設計實務	System on Chips Design and Practice	3	2	2			
連網型系統晶片嵌入式軟體	Networked SOC Embedded Software	3	3	0			
●△機電整合及實習	Mechatronic & Experiments	_	_		3	2	2
●驅動器設計技術	Driver Design Technology				3	3	0
●無線感測網路實習	Wireless Sensor Networks and Practice				1	0	3
	E能科技領域選修 Power & Energy Technology I	ield El	ective (Courses			1
●電能技術實務	Power Technology and Practice	1	0	3			
●電力品質	Electric Power Quality	3	3	0			
●切換式電源轉換器設計及實習	and Practice of Switching Power Supply	3	2	2			
●太陽能工程	Energy Engineering Practices	3	3	0			
■太陽光電發電系統設計及應用	Design and Practice of Solar Photovoltaic Systems	3	3	0			
●風力發電工程	Wind Power System Practical Cases	3	3	0			
●配電系統自動化	Distribution System Automation	3	3	0			
●最佳化電機設計及實習	Optimal Design of Electrical Machinery and Practice	3	2	2			
●捷運機電系統概論	Introduction on MRT Electro-Mechanical- System				3	3	0
●電力監控	Power Supervisory Control				3	3	0
●風力發電工程實務	Wind power system practical cases				3	3	0
●電機設備保護及實習	Electrical Power Distribution Design				3	2	2
●電動車設計與製作	Introduction of New Energy Vehicles				3	3	0
	其它專業選修課程 Other Electiv	e Courses					
●[AI]人工智慧	Artificial Intelligence	3	3	0			
●工業安全衛生	Industrial Safety Health	3	3	0			
●個人行銷與形象管理	Personal Marketing and Image Management	3	3	0			
●校外實習(一)	Extracurricular Intern (I)	9	0	9			
●工程經濟	Engineering Economy				3	3	0
●[AI]類神經網路	Artificial Neural Networks				3	3	0
●工廠管理	Factory Management				3	3	0
●特殊空調系統	Distinctive Air-Conditioning				3	3	0
●線性馬達概論	Linear Motor Theory Fundamentals				3	3	0
●校外實習(二)	Extracurricular Intern (II)				9	0	9
●師徒實務專題 (二)	Mentor-Apprentice Project study (II)	3	0	3	3		

備註 Note:

一. 畢業至少應修滿 133 學分【必修 101 學分,選修至少 32 學分(其中至少需含本系專業選修 22 學分,選修學分內必須修習三門以上(含)具有實驗(習)課之課程(3 學分/4 學時))】

Students should complete at least 133 credits before graduation including 101 required credits and 32 elective credits (at least 22 professional elective credits containing no less than three experimental courses (3 credits / 4 class hours) in EE.).

- 二. 本校訂有「國立勤益科技大學學生畢業門檻辦法」,請依規定辦理。
 - Our school has established the "National Chin-yi University of Science and Technology Student Graduation Threshold Measures", Graduation
- 三. 通識教育學院所開設之「博雅通識課程」學分數(時)為2學分2學時或3學分3學時,經101學年度第二學期校課程委員會會議通過。

Liberal Arts General Study courses opened by College of General Education, are divided into 2 hours

course with 2 credits or 3 hours course with 3 credits, ratified by Course Committee in 2012.

四. 考取本系學生核心證照可抵免:

Students who get core certifications can apply to waive one of the following options:

一張(含以上)證照僅限抵一門具有實驗(習)課程之畢業門檻(不可抵畢業學分),僅限抵免一次。
One (or above) certification can transfer one experimental course only one time (no transfer graduation credits).

- 五. 課程名稱前有標示「 \triangle 」符號者,為程式設計課程。 Courses with a " \triangle " refers to an application design course.
- 六. 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.
- 七. 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.