國立勤益科技大學114學年度進修部二年制電機工程系學分計畫表

National Chin-Yi University of Technology Continuing Education Division Curriculum for 2025 Two-year Bachelor Program of Department of Electrical Engineering

113.10.09 系課程會議通過 113.10.23 系務會議 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

		上學:	期First Se		下學期	Second S	emester
科目	Courses	學分	正課	實習	學分	正課	實習
	共同必修科目(10學分)General Required Courses(Credit		Internship	Credit	Lecture	Internship
	英同必修料百(10字分)General Required Coursest 第一學年First Year	(10Cled1)	LS HOULS)				
中國文學	Chinese Literature	Ι	T		2	2	0
實用英文	Practical English		<u> </u>		2	2	0
<u> </u>	第二學年Second Year	<u> </u>					Ů
歷史與文化	History and Culture	2	2	0			
憲法與民主	Constitution and Democracy		<u> </u>		2	2	0
藝術與哲學	Art and Philosophy				2	2	0
		上學	期First Se	mester	下學期	Second Se	emester
科目	Courses	學分 Credit	正課	實習 Internship	學分 Credit	正課 Lecture	實習 Internship
	校訂必修科目(22學分)Department Required Course				Credit	Lectore	Internsinp
	第一學年First Year	`					
工程數學	Engineering Mathematics	3	3	0			
△計算機程式	Computer Programming	3	3	0			
△計算機程式實習	Computer Programming Practice	1	0	2			
控制系統	Control System				3	3	0
電力系統	Power System				3	3	0
△微處理機介面控制及實習	Microprocessor Interface Control and Practice	l			3	1	2
	第二學年Second Year			·			
書報討論	Seminar	1	2	0			
電機控制及實習	Electric Drive Control and Practice				3	1	2
電機應用實務	Electrical Engineering Application Practice				2	2	0
		上學	期First Se	mester	下學期	Second Se	emester
科目	Courses	學分	正課	實習	學分	正課	實習
	毒 ₩ · 嗯 / f · Al ¬ D	Credit	Lecture	Internship	Credit	Lecture	Internship
	專業選修科目Department Electives C	ourses					
11 发廊市田	第一學年First Year		_ n				1
油氣壓應用	Hydraulic and Pneumatic Application	3 2	3	0			
△連網型系統晶片嵌入式軟體	Networked SoC Embedded Software		2	0			
△專業軟體應用及實習	Professional Software Application and Practice Microcontrollers Primer	3	1	2			
微控制器入門		3	3	0			
可程式控制器原理	Principle of Programmable Logic Control	3	3	U	3	3	0
發變電工程	Generation Transformation Engineering	-	<u> </u>		3	3	0
電力品質	Power Quality SCADA System Design and Practice		1		3	ა 1	2
監控系統設計及實習 變頻器原理及應用	Principle and Application of Frequency Convertor		1		2	2	0
愛 頻	第二學年Second Year	<u> </u>				7	U
能源應用	Energy Application	3	3	0			
控制系統實務	Control System Practice	3	2	2			
<u> </u>	IoT Electronic Systems Application and Design	3	3	0			
電腦輔助繪圖設計及實習	Computer Aided Drafting Design and Practice	-	1 0		3	1	2
電機設備保護實習	Electrical Equipment Protection Practice	 	 	† †	3	1	2
機電整合	Mechatronics	 	1	1	3	3	0
無線感測網路	Wireless Sensor Network		<u> </u>		3	3	0
無多為何明好	WITCHOOD DERIOT NETWORK	上學:	用First Se	mester		Second Se	v
科目	Courses	學分	正課	實習	學分	正課	實習
	Courses			Internship	Credit	Lecture	Internship
	共同選修科目General Elective Cou	rses					
A DI Cet et	第一學年First Year		1 2	1 2 1		ı	1
△PLC應用	PLC Application	2	2	0			1
數位電子學	Digital Electronics	3	3	0			1
網路分析	Network Analysis	3	3	0			1
△圖控軟體應用	Graphics Control Software Application	2	2	0			
線性代數	Linear Algebra	<u> </u>	ļ		3	3	0
電力電子學及實習	Power Electronics and Practice	ļ	ļ		3	1	2
信號與系統	Signals and Systems				3	3	0
WILL THE USE THUS FV	Introduction to Micro Electromechanical	I	1		2	2	0
微機電概論			1	1 -	_		_
△微控制器應用及實習	Microcontroller Application and Practice 第二學年Second Year				3	1	2

感測轉換及實習	Sensors and Transducers Practice	3	1	2			
電機機械及實習	Electric Machinery and Practice	3	1	2			
電磁學	Basic Electromagnetics	3	3	0			
系統動態模擬	System Dynamic Simulation	3	1	2			
△圖控程式應用及實習	Graphical Programming Application and Practice	3	1	2			
工業配線及實習	Industrial Wiring Practice	3	1	2			
工業配電設計	Industrial Power Distribution Design	3	3	0			
消防工程設計	Fire Protection Engineering Design				3	3	0
類神經網路應用	Neural Network and Application				3	3	0
電腦輔助電機設計及實習	Computer Aided Design and Practice of Electrical Machinery				3	1	2
△數位信號處理及實習	Digital Signal Processing and Practice				3	1	2
超大型積體電路設計導論	Introduction to Very Large Scale Integration (VLSI) Design				3	3	0

學分/時數統計 Credit/Hour Total	第一學年First Year				第二學年Second Year				
	上學期 First Semester		下學期 Second Semester		上學期 First Semester		下學期 Second Semester		
	學分 Credit	學時 Hour	學分 Credit	學時 Hour	學分 Credit	學時 Hour	學分 Credit	學時 Hour	
必修科目學分/時數 Required Courses Credit / Hour	7	8	13	13	3	4	9	9	
最低選修科目學分/時數 Minimum Electives Courses Credit / Hour	12	12	5	5	15	15	9	9	
總學分數/時數累計 Credits / Hours Total	19	20	18	18	18	19	18	18	

備註Note:

- 一、 畢業至少應修満 73 學分【必修 32 學分,選修至少 41 學分(其中至少需含本系專業選修 27 學分)】。 Students should complete at least 73 credits before graduation, including 32 required credits, 41 elective credits (elective credits should have at least 27 credits from department elective courses).
- 二、 選修41學分內,必須修習三門以上(含)具有實驗(習)課之課程。
- 三、 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.
- 四、 課程名稱前有標示「△」符號者,為「程式設計課程」。 Courses with a "△" refers to an application design course.

The actual commencement of classes will be arranged based on the current semester situation, the progress of each subject's curriculum, and the availability of teachers for instruction. Information about courses offered in previous years for this department can be found by checking the 'Student Information Management System' on our school's website.

- 六、 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.
- セ、 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.
- 八、 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.