國立勤益科技大學 113 學年度工程學院冷凍空調與能源系二技國際學生產學合作專班 National Chin-Yi University of Technology Curriculum Planning of 2024 Two-Year College Industry-Academia Collaboration Program for International Students in Department of Refrigeration, Air Conditioning and Energy Engineering of College of Engineering

112.10.11 糸課程會議審議通過 112.10.27 糸務會議審議通過

T		_					112.12.07. 校課程委員會議及 112.12.21. 臨時教務會議審議通:									通過	
第一學年 Fir	1						第二學年 Secon		第三學年 Third Year								
	上學期 下學期							上學期 First Semester			下學期 Second Semester				上學期		
	First Semester			Second Semester											First		
															Semester		
科 目	學	正	實	學	正	實	科 目	學	正	實	學	正	實	科 目	學	正	實
Courses	分	課	習	分	課	習	Courses	分	課	習	· 分	課	習	Courses	分	課	習
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	1.0	е			е			<u> </u>	е			е	1111			е	,
			共	同利	目 (17	会分) General Required Courses (1	7 cr	edit	s hou	urs)			<u> </u>			
華語聽說(一)							華語聽說(三)										
Chinese Listening and	3	5	0				Chinese Listening and speaking	3	3	0							
speaking							(III)										
華語讀寫(一)	_	_	_														
Chinese Reading and writing	3	5	0														
體育(一)			_														
Physical Education (I)	0	2	0														
華語聽說(二)																	
Chinese Listening and				3	5	0											
Speaking (II)																	
華語讀寫(二)																	
Chinese Reading and				3	5	0											
Writing (II)					ľ	ľ											
藝術與哲學																	
MAT and philosophy				2	2	0											
體育(二)																	
^{短 月 (一)} Physical Education(Ⅱ)				0	2	0											
	6	12	_	8	14	_		3	3	0							
小計	0			_			Drofessional Deguired Course				bo	ural					
- 62 by 63 /		校	门必	1100才	十日	(35 =	<mark>学分) Professional Required Course</mark>	es(3	S CI	eans	no	urs)					_
工程數學(一)	3	3	0				實務專題(一)	2	0	6							
Engineering Mathematics (I)							Project Study (I)										
熱力學							能源工程原理與實習										
Thermodynamics	3	3	0				Energy Engineering Principle	3	2	2							
							and Practices										
環境控制	3	3	0				產業實習(一)				9	0	9				
Environmental control	Ļ						Industry practice (I)	<u> </u>									
冷凍空調基礎裝修實務																	
Basic Practices of	3	2	2														
Refrigeration and Air-		1-	-														
Conditioning	<u> </u>	<u> </u>															
空調工程與實習																	
Air- Condition Engineering				3	2	2											
and Practices	L	L		L	L			L			L						L
冷凍工程及實習																	
Refrigeration Engineering				3	2	2											
and Practices																	
機電整合實務																	
Mechatronices integration				3	2	2											
practice																	
小計	12	11	2	9	6	6		5	2	8	9	0	9				
71.01	1.2						分) Professional Electives Cours										

쌰						l				1					文业帝羽(-)			
業選	自動控制 Automatic Control	3	3	0				工業安全 Industry Safety	3	3	0				產業實習(二) industry	9	0	9
修	燃料電池概論							現代控制							internship (Ⅱ) 專案研究			
	Introduction to Fuel Cells	3	3	0				Modern Control	3	3	0				Project research	3	3	0
	變頻節能控制 Variable Frequency Energy Saving Control	3	3	0				振動與噪音控制 Vibration and Noise Control	3	3	0				通風工程 Ventilation and Air Moving Engineering	3	3	0
	虛擬儀控軟體應用 Basic Programming and Application of Virtual Instrument Software	3	3	0				冷凍空調系統故障分析 Refrigeration and Air- Conditioning System Problem Diagnostic and Repair Procedure	3	3	0				綠建築與照明節 能 Energy Saving of Green Building and Lighting	3	3	0
	流體力學與流體機械 Fluid Dynamics and Fluid Mechanics	3	3	0				太陽能工程 Solar Energy Engineering	3	3	0							
	模糊控制概論 Fuzzy Control Theory				3	3	0	廠務技術 Facility System Technique	3	3	0							
	電腦立體製圖 Computer 3D graphics				3	3	0	熱交換器設計 Heat Exchanger Design	3	3	0							
	消防控制概論 Introduction to Fire Fighting Engineering				3	3	0	工程力學 Engineering Mechanics	3	3	0							
	工程數學(二) Engineering Mathematics (II)				3	3	0	無塵室技術 Cleanroom Technology	3	3	0							
	電子設備冷卻技術 Cooling Technique of Electronic Equipment				3	3	0	電腦輔助設計與實習 Computer Aided Design	3	1	2							
	科技溝通 Communication of Science and Technology				3	3	0	精密加工技術 Precision Machining Technique	3	3	0							
	冷凍空調設備與實習 Equipment and Practices of Refrigeration and Air- Conditioning				3	2	2	風力發電 Wind Power Generation				3	3	0				
	冷凍空調裝修實務 Practice of Refrigeration and Air-Conditioning Installation and Maintenance				3	2	2	實務專題(二) Project Study(Ⅱ)				2	0	6				
								特殊空調系統 Distinctive Air-Conditioning System				3	3	0				
								流場分析專業軟體應用 Computational Fluid Dynamics				3	3	0				
								校外實習(暑期) Off-campus internship on summer				2	0	2				
								冷凍空調工程規劃及管理 Planning and Management of Refrigeration and Air- Conditioning Engineering				3	3	0				

一、 畢業至少應修 72學分(必修52學分,本系專業選修20學分)。

Students should complete at least 72 credits before graduation, including 52 required credits, 20 elective credits (elective credits should have at least 20 credits from department elective courses)

備 二、 學生須於一年級第二學期結束前通過華語文能力A2(含)級以上測驗。如未能通過華語文能力A2(含)級以上測驗者,則學校應逕予退學。 Students must pass the Chinese Language Proficiency Test of A2 (inclusive) or above before the end of the second semester of the first grade. Those who fail to pass the Chinese language proficiency test of A2 (included) or above will be expelled from the school.

三、 學生應於第一學期修畢華語輔導課程(0學分5學時)。
Students should complete the Extracurricular Chinese Class in the first Semester.