國立勤益科技大學 113 學年度日間部四年制機械工程系學分計畫表 National Chin-Yi University of Technology Curriculum for 2024 Four-Year Bachelor Program of Department of Mechanical Engineering

112.10.18 系課程及 112.11.08 系務會議審議通過 112.11.23 院課程會議審議通過 112.12.07.校課程委員會議及 112.12.12.臨時教務會議審議通過

112.11.25 优殊程言俄吞城地凹 112.12.07.校課程委員會議及 112.12.21.臨時教務會議審議通過							議通過	
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科目	Courses	學分 Credits	正課 Lecture	實習 Practice	學分 Credits	正課 Lecture	實習 Practice	
	共同必修科目(28 學分) General Required Cou			Fractice	Credits	Lecture	Fractice	
	第一學年First Year	1363 (20016	uito j					
國文(一)	Chinese (I)	2	2	0				
大一英文(一)	Freshman English (I)	2	2	0				
英文聽講(一)	Listening and Speaking (I)	1	1	0				
歴史與文化(一)	History and Culture (I)	2	2	0				
音樂鑑賞	Music Appreciation	1	1	0		+		
體育(一)	Physical Education (I)	0	2	0				
全民國防教育軍事訓練(一)	National Defense Education and Military Training (I)	0	2	0		+		
國文(二)	Chinese (II)	0		0	2	2	0	
大一英文(二)	Freshman English (II)				2	2	0	
英文聽講(二)	Listening and Speaking (II)				1	1	0	
歷史與文化(二)	History and Culture (II)				2	2	0	
藝術鑑賞	Art Appreciation				1	1	0	
體育(二)	Physical Education (II)				0	2	0	
全民國防教育軍事訓練(二)	•				0	2		
土八四四教月平尹訓殊(一)	National Defense Education and Military Training (II)	<u> </u>	<u> </u>	<u> </u>	U		0	
博雅通識課程	第二學年Second Year Liberal Education	2	2	0		т —		
		0	2	0		 		
體育(三)	Physical Education (III)	U		U	1	1	0	
博雅通識課程	Liberal Education	1			2	2	0	
博雅通識課程	Liberal Education	-			2	2	0	
體育(四)	Physical Education (IV)	<u> </u>	l	l	0	2	0	
1 ポーパ・フーいり 1 ロームウ	第三學年Third Year	1 2			T		1	
博雅通識課程	Liberal Education	2	2	0				
博雅通識課程	Liberal Education				2	2	0	
憲法與民主	Constitution and Democracy				2	2	0	
	第四學年Fourth Year (無必修課程No General R							
	專業必修科目(62學分) Department Required Co	ourses (62c	redits)					
the above	第一學年First Year	_			1		ı	
微積分(一)	Calculus (I)	3	3	0				
△程式語言	Programming Language	3	3	0				
●工廠實習	Factory Practices	1	0	3				
●電腦輔助機械製圖	Computer Aided Mechanical Drawing	1	0	3				
材料科學與工程	Material Science and Engineering	3	3	0				
微積分(二)	Calculus (II)				3	3	0	
●精密製造實習	Precision Manufacture Practices				1	0	3	
静力學	Statics				3	3	0	
製造學	Manufacturing Processes				3	3	0	
	第二學年Second Year							
材料力學(一)	Mechanics of Materials (I)	3	3	0				
工程數學(一)	Engineering Mathematics (I)	3	3	0				
電機學	Electrical Machinery	3	3	0				
動力學(一)	Dynamics (I)	3	3	0				
材料試驗	Experiment of Engineering Material	1	0	3				
機械工程實驗(一)	Experiment of Mechanical Engineering (I)	1	0	3				
工程數學(二)	Engineering Mathematics (II)				3	3	0	
應用電子學(一)	Applied Electronics (I)				3	3	0	
機構學	Mechanisms				3	3	0	
熱力學(一)	Thermodynamics (I)				3	3	0	
自動控制	Automatic Controls				3	3	0	
第三學年Third Year								
	Fluid Mechanics (I)	3	3	0				
流體力學(一)		3	3	0	1			
流體力學(一) 機械設計(一)	Mechanical Design (I)				1	+	1	
機械設計(一)	6 ()	2	0	6				
機械設計(一) 實務專題(一)	Project study (I)	2	0	3				
機械設計(一) 實務專題 (一) 機械工程實驗(二)	Project study (I) Experiment of Mechanical Engineering (II)				2	0	6	
機械設計(一) 實務專題(一) 機械工程實驗(二) 實務專題(二)	Project study (I) Experiment of Mechanical Engineering (II) Project study (II)				2	0	6 3	
機械設計(一) 實務專題 (一) 機械工程實驗(二)	Project study (I) Experiment of Mechanical Engineering (II)	1	0					

科目	Courses	上學期 First Semester	下學期 Second Semester

		學分 Credits	正課 Lecture	實習 Practice	學分 Credits	正課 Lecture	實習 Practice
	共同選修科目 General Electives Co						
	第一學年First Year (無排定共同選修課	程 None)					
全民國防教育軍事訓練(三)	第二學年Second Year National Defense Education and Military Training(III)	1	2	0		1	1
全民國防教育軍事訓練(四)	National Defense Education and Military Training (IV)	1	2	U	1	2	0
王八百万次五十十 叶叶(二)	第三學年Third Year			J.	-		
體育選修	Physical Education, Elective Course	1	2	0	1	2	0
全民國防教育軍事訓練(五)	National Defense Education and Military Training (V)	1	2	0			
	第四學年Fourth Year						
體育選修	Physical Education, Elective Course	1	2	0	1	2	0
	專業選修科目 Professional Electives (Courses					
物理學	第一學年First Year	I	1	1			0
- 物理学 - 化學	Physics Chemistry				3	3	0
科技英文	English for Science and Technology				3	3	0
11327.7	第二學年Second Year	<u>I</u>	J	J.	Ü		
CAE 概論	Introduction to CAE Analysis	3	3	0			
3D 參數化機械設計	3D Parametric Mechanical Design	3	3	0			
●CNC 加工(一)	CNC Machining (I)	3	3	0			
奈米材料概論 2011年	Introduction to Nanomaterials	3	3	0			
科技論文導讀 工程社科與應用	Guidance of Scientific Article Reading			-	3	3	0
工程材料與應用 訊號與系統	Engineering Material and Applications Signals and Systems				3	3	0
應用熱傳學	Applied Heat Transfer				3	3	0
幾何光學	Geometric Optics				3	3	0
數位邏輯	Digital logic				3	3	0
●CNC 加工(二)	CNC Machining (II)				3	3	0
電腦輔助立體製圖	Three Dimensional Computer Graphics				3	3	0
	第三學年Third Year	· -			1		
電腦輔助工程分析(一)	Computer Aided Engineering Analysis (I)	3	3	0			
機器人控制實務	Robot Control Practice	3	3	0			
再生能源技術 材料力學(二)	Technology and Application of Renewable Energy Mechanics of Materials (II)	3	3	0	-		
夾治具設計	Jig and Fixture Design	3	3	0			
AI 智慧機械概論	Introduction to Intelligent Machinery	3	3	0			
衝壓模設計	Stamping Die Design	3	3	0			
銲接學	Weldings	3	3	0			
鑄造學	Foundry	3	3	0			
●精密加工技術	Precision Machining	3	3	0			
切削刀具學 工具機組裝技術	Tooling for Metal Cutting Machine Tools Assembly Technology	3	3	0			
<u>工共機組表投票</u> 塑膠材料	Plastic Materials	3	3	0			
快速原型加工	Rapid Prototyping Processes	3	3	0			
電腦輔助製造	Computer Aided Manufacturing	3	3	0			
△C程式語言設計	Computer Programming C++ Language	3	3	0			
△LabVIEW 程式設計與應用	LabVIEW Programming and Applications	3	3	0			
變頻元件閘流體	VFD Elements and Thyristors	3	3	0			
工程統計學 半導體製程	Engineering Statistics Semiconductor Processing Technology	3	3	0			
高等工程數學	Advanced Engineering Mathematics	3	3	0			
问寸二任数于	Advanced Engineering Wathematics	3					
動力學(二)	Dynamics (II)				3	3	0
創意性機構設計	Creative Mechanism Design				3	3	0
流體力學(二)	Fluid Mechanics (II)			1	3	3	0
流體機械 電腦輔助產品設計	Fluid Machinery Computer Aided Product Design				3	3	0
工具機設計與量測	Machine Tool Design and Measurement				3	3	0
數值分析	Numerical Analysis				3	3	0
有限元素分析	Finite Element Analysis			İ	3	3	0
向量與張量分析	Vector and Tensor Analysis				3	3	0
逆向工程	Reverse Engineering				3	3	0
精密鑄造	Precision Casting				3	3	0
熱處理	Heat Treatment			-	3	3	0
陶瓷材料 雪账輔助敕入的雇用	Ceramic Materials Computer Aided Integration and Application				3	3	0
電腦輔助整合與應用 電腦整合製造	Computer Aided Integration and Application Computer Integrated Manufacturing				3	3	0
塑膠模具設計	Plastics Mold Design				3	3	0
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工具後持移分析 Machine Tool Structural Analysis 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	五軸加工技術	5-Axis Machine Tool Technology and Application				3	3	0
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度至技術 Without Plastic Processing		Thin Film Materials and Applications				3	3	0
要性的工		**				3	3	0
	塑性加工					3	3	0
該別語原理與應用		Introduction to Electric Vehicle				3	3	0
接客登合 Mechatronics and Integration						3	3	0
PC Based Zentrol Interface Techniques						3	3	0
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可葉度工程 Introduction to Reliability Engineering 3 3 3 3 数性代数 Introduction to Microforming 3 3 3 3 数に放射数 Introduction to Microforming 3 3 3 3 公人Java 程式等言故計 Lava Programming 3 3 3 3 不可能	數位 IC 實務	Digital IC Practices						0
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MATLAB 軟體之工程應用	微成形概論							0
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高等熱力學				_				
自動化光學量測系統	電腦輔助工程分析(二)				_			
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現代控制 Modern Control 3 3 0 自動化生產系統 Automatic Production Systems 3 3 0 模糊控制 Fuzzy Controls 3 3 0 AI 智慧機械聯網整合技術 Intelligent Machine Networking Integration Technology 3 3 0 工具機控制器實務 Machine Tool Controller Practice 3 3 0 条米科技物理 Nanotechnology Physics 3 3 0 太陽能概論 Introduction to Solar Energy Engineering 3 3 0 大電概論 Introduction to Solar Energy Engineering 3 3 0 大電概論 Introduction to Solar Energy Engineering 3 3 0 **大電概論 Introduction to Optoelectronics 3 3 0 **養明與專利 Innovative Invention and Patent Layout 3 3 0 ***聖女機概論 Introduction to Equipment of Biomedical Engineering 3 3 0 **汽車工程 Automotive Engineering 3 3 0 **汽車工程 Automotive Engineering<	應用電子學(二)	Applied Electronics (II)	3	3	0			
自動化生産系統	積體電路與介面	IC Interface	3	3	0			
模糊控制 Fuzzy Controls 3 3 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	現代控制	Modern Control	3	3	0			
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工具機控制器實務Machine Tool Controller Practice330奈米科技物理Nanotechnology Physics330太陽能概論Introduction to Solar Energy Engineering330造型藝術與創新設計Formative Arts and Innovation Design330光電概論Introduction to Optoelectronics330發明與專利Innovative Invention and Patent Layout330醫工設備概論Introduction to Equipment of Biomedical Engineering330汽車工程Automotive Engineering330淨察概論Introduction to Net Zero330生醫材料概論Introduction to Biological Materials330建電池設計與開發Design and Development of Lithium-ion Batteries33工程倫理Engineering Ethics33機械系統設計Mechanical System Design33複合材料力學Mechanics of Composite Material33科技論文寫作Technical Thesis Writing33數位控制Digital Control33生醫力學概論Introduction to Biomedical Mechanics33最佳化設計Optimal Design33航空產業概論Introduction to Aviation Industry33彈塑性力學Mechanics of Elasticity and Plasticity33		Fuzzy Controls	3	3	0			
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備註 Note:

- 一、畢業至少應修滿 131 學分【必修 90 學分,選修至少 41 學分(須含本系專業選修至少 28 學分)】
 - Students should complete at least 131 credits before graduation, includes 90 required credits, 41 elective credits (elective credits should have at least 28 credits from professional elective courses).
- 二、本校訂有「國立勤益科技大學學生畢業門檻辦法」,畢業門檻條件:英文能力及自主學習,請依規定辦理。 Our school has established the "National Chin-yi University of Science and Technology Student Graduation Threshold Measures", Graduation threshold: English proficiency and independent study, please follow the regulations.

- 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 provided by College of General Education, are divided into 2 hours course with 2 credits or 3 hours course with 3 credits, ratified by the School Course Committee in 2012.
- 四、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.

 五、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.
- 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、學生須選讀本系所訂跨領域學程課程 並有成績登錄。 Students need to register for the course of inter-disciplinary program set by this department and have a record of grades

113 學年度 製造與管理 學程							
	本系課程	外系課程					
課程選別	學年	科目名稱(學分/學時)	課程選別	學年	科目名稱(學分/學時)		
必修	一上	工廠實習 (1/3)					
必修	一下	製造學 (3/3)					
選修	二下	工程材料與應用 (3/3)	選修	三上	科技管理 (3/3)		
選修	三上	電腦輔助工程分析(一)(3/3)	選修	三下	品質工程 (3/3)		

	113 學年度 自動化與人工智慧 學程						
		本系課程			外系課程		
課程選別	學年	科目名稱	課程選別	學年	科目名稱		
必修	一上	程式語言 (3/3)					
必修	二下	自動控制 (3/3)					
選修	二下	訊號與系統 (3/3)	選修	三上	影像處理概論 (3/3)		
選修	三上	機器人控制實務 (3/3)	選修	三下	Python 程式設計 (3/3)		

113 學年度 綠色能源 學程							
本系課程			外系課程				
課程選別	學年	科目名稱	課程選別	學年	科目名稱		
必修	一上	材料科學與工程(3/3)					
必修	二下	熱力學(一) (3/3)					
選修	二下	應用熱傳學 (3/3)	選修	三上	能源管理技術 (3/3)		
選修	三上	再生能源技術 (3/3)	選修	三下	節能技術概論 (3/3)		