111學年度日間部 機械工程系 四技課程規劃表

	第一學年(111)						第二學年(112)						第三學年(113)	V			
		_	學期	T.				_	學期	下台			7. — 7. 1 (1.15)		學期	下	學期
	科目	_	1	學分			科目	-	時數				科目		時數		_
	體育	0	2	0	2	100	分類通識	2	2	2	2	NG.		+ //	叫双	+ 11	a-1 -3
校	分類通識	2	2	2	2	校	分類通識	2	2			校					\vdash
必修	分類通識	2	2	2	2	必	77 M-2014					必		_			\vdash
修	小計	4	6	4	6	修	小計	4	4	2	2	修	小計		990		
	微積分(一)(二)	3	3	3	3		科技英文(三)(四)	2	2	2	2		4.0				
	物理(一)(二)	2	2	2	2		11473(-7/-)				_			_			\vdash
	工程倫理	2	2														
院	應用中文(一)(二)	2	2	2	2	院						mt-					
	科技英文(一)(二)	2	2	2	2	必必				-		院必					
修	程式設計	3	3			修						修			_		
	人工智慧概論			3	3												\vdash
	7 - 4 10 10 10			-				-		-	\neg						
	小計	14	14	12	12		小計	2	2	2	2		小計				
	機械製造	2	2				電腦機械繪圖	2	3		-		機械材料試驗	2	3		0.00
	工廠實習(一)	2	3				工程數學(一)	3	3		\neg		數控工具機實習	2	3	-	
	機械製圖			2	3		静力學	2	2				機械元件設計	3	3	\neg	_
	工廠實習(二)			2	3		電機學實務	2	2		\neg		熱力學	2	2	\neg	
	機電系統概論			2	2		液氣壓學實務	3	3				實務專題(一)(二)	1	1	1	1
-56						-dz	PLC控制技術及實習	1	2		\neg		機械設計製圖	_	Ť	2	3
專業						一于	動力學			2	2	專業	流熱實驗			1	2
必必						-8.50	材料力學(一)			2	2	未必	精密量具及檢驗			2	2
修						修	機構學			3	3	修	THE DE PROPERTY.				
	***************************************						機械材料			3	3						
							機電整合及實驗	7		2	3						
							自動控制實務			3	3						
							電子學實務			2	2						
	小計	4	5	6	8		小計	13	15	17	18		小計	10	12	6	8
													智慧製造實務	3	3		
										\neg	\neg		微處理機實務	3	3		
									\neg		\neg		綠色科技與工程概論	3	3		
											\neg		半導體製程與設備	3	3		
										\neg	\neg		工程數學(二)			3	3
									\neg				熱處理實務			3	3
專						專			\neg		\neg	專	表面工程應用			3	3
業	55M(M255)					業			\neg	\neg	\neg	業	氣壓控制技術實務		\dashv	3	3
選修						選修			\neg		\neg	選修	電腦輔助設計		\neg	3	3
19						19			\neg		\exists	13	機器人工程			3	3
									\dashv	\neg	\neg		電腦輔助製造		\dashv	3	3
				\neg	_				\dashv		\neg		圖形化程式設計實務		\dashv	3	3
				\neg	\neg				\dashv	\neg	\dashv		逆向工程技術			3	3
		\neg		\neg					\dashv	\dashv	\dashv		系統整合實務		\dashv	3	3
		\neg		\neg	\neg				\dashv	\dashv	\dashv		雷射加工技術		\dashv	3	3
	M - 49 h 4 4 4 1				\neg						_		14 At 14 AZ 164				_

	第四學年(1	14)			
	科目	上	- 料	下	- 契期
	AT B	學分	時數	學分	時數
校必					
修	小計				
院必					
修	小計				
專					
業必					
修	小計			0	0
	自動光學檢測技術	3	3		
	模流分析及應用	3	3		
	奈米技術概論	3	3		
	電腦輔助工程	3	3		
	量測技術與應用	3	3		
	太陽熱能實務	3	3		
	人機介面與圖形監控技術	3	3		
專	材料科學與工程	3	3		
業選	系統化創新方法	3	3		
必修	CAD/CAM實務應用	3	3		
	跨域創意實務	3	3		
	校外實習	9	9		
	創意性機構設計			3	3
	電腦輔助模具設計			3	3
	自動化精密機械設計實務			3	3
	精密機械振動與實務			3	3
	五軸加工實務技術			3	3

專業選修課程開課	規劃
學期	時數
第一學年第一學期	0
第一學年第二學期	0
第二學年第一學期	0
第二學年第二學期	0
第三學年第一學期	7
第三學年第二學期	9
第四學年第一學期	9
第四學年第二學期	0
開課時數總計	25

科目類別:

共同科目:體育 通識科目:分類通識

專業科目:院必修、專業必修、專業選修

注意事項:

- 1.本校訂有學生基本能力與畢業門檻實施辦法。
- 2.學生需修習勞作教育(0學分4小時),並於第一學年上下二學期實施。
- 3.一~三年級每學期應修習16~30學分,四年級每學期應修習9~30學分。
- 4.最低畢業學分:128學分;必修學分:100學分;選修學分:28學分(選修學分含跨系選修學分);
- 惟於本系專業選修學分不得低於16學分。
- 5.畢業年級相當於國內高級中學二年級之國外或香港、澳門同類同級學校畢業生,以
- 同等學歷修讀本校學士學位者,最低畢業學分:140學分;必修學分:100學分;
- 選修學分:40學分(選修學分含跨系選修學分),惟於本系專業選修學分不得低於28學分,
- 可延長修業年限三年。





MUST Curriculum Planning for Undergraduate Students for Academic Years 2022-2025 Department of Mechanical Engineering

	1st year(11	1)					2 nd year(11	2)					3 rd year(113	()			
	Course		1st nester		2 nd nester		Course		lst nester		2 nd nester		Course		st		2 nd nester
	Course	Cr.	hr.	Cr.	hr.		Course	Cr.	hr.	Cr.	hr.		Course	Cr.	hr.	Cr.	hr.
MIOT O	Physical Education	0	2	0	2	Norman o	Classified General Education	2	2	2	2	A THORNE					
MUST Core Required	Classified General Education	2	2	2	2	MUST Core Required	Classified General Education	2	2			MUST Core Required					
Courses	Classified General Education	2	2	2	2	Courses						Courses					
	Subtotal	4	6	4	6		Subtotal	4	4	2	2	Courses	Subtotal		4,1965)	SHARM	
	Calculus (I) (II)	3	3	3	3		Technical English (III) (IV)	2	2 .	2	2						
	Physics (I) (II)	2	2	2	2												
School	Ethics for Engineers	2	2			School						School				_	
Professional	Applied Chinese(I)(II)	2	2	2	2	Professional						Professional					
Required	Technical English(I)(II)	2	2	2	2	Required						Required					
Courses	Introduction to Programming	3	3			Courses						Courses					
	Introduction to Artificial Intelligence			3	3												
	Subtotal	14	14	12	12		Subtotal	2	2	2	2		Subtotal			The sale	
TO BE LESS	Manufacturing Processes	2	2				Computer Aided Mechanical Drafting	2	3				Material Testing	2	3		
	Shop Practice (I)	2	3				Hydraulics and Pneumatics Practice	3	3				CNC Machine Tools Practice	2	3		
	Mechanical Drawing			2	3		Applied Mechanics (Statics)	2	2				Design of Machine Elements	3	3		
	Shop Practice (II)			2	3		Mechatronics and Practice	2	2				Thermodynamics	2	2		
	Introduction to Mechatronics			2	2		Engineering Mathematics (I)	3	3				Project (I)(II)	1	1	1	1
							Control Technology in PLC with	1	2				Mechanical Design and Drawing			2	3
Department						Department compulsory	Dynamics	-	_	2	2	Department	Fluid Thermal Experiment			1	2
courses						courses	Mechanics of Materials (I)			2	2	courses	Precision Instrument and Parts			2	2
							Mechanism			3	3		Inspections		-		-
							Materials of Mechanical Engineering			3	3						
							Introduction to Mechatronics			2	3						
							Automatic Control Practice			3	3						
							Electronics Practice			2	2						
	Subtotal	4	5	6	8		Subtotal	13	15	17	18		Subtotal	10	12	6	8
													Intelligent Manufacturing Practice	3	3		
													The Microprocessor Practice	3	3		
													Introduction to Green Technique	3	3		
										_	_		and Engineering Semiconductor Manufacturing		A		
													Process and Equipments	3	3		
													Engineering Mathematics (II)			3	3
													Heart Treatment			3	3
Department Elective					-	Department Elective						Department Elective	Surface Engineering			3	3
Courses						Courses					_	Courses	Pneumatic Control Technology			3	3
						Compes						Comisco	Computer-Aided Design		L	3	3
									-				Robotic Engineering			3	3
													Computer-Aided Manufacturing			3	3
													Graphic Language Design Technology in Reverse			3	3
													Engineering			3	3
													System Integration Practice			3	3
													Technology in Laser Manufacturing			3	3

	4 th year(114)					
			st ester	2 nd semester		
	Course	Cr.	hr.	Cr.	hr	
MICTO						
MUST Core				-	-	
Required						
Courses	Subtotal					
School						
Professional						
Required		_			-	
Courses						
Courses	Subtotal	-				
Department						
compulsory						
courses	Subtotal	0	0	0	0	
	Automatic Optical Inspection	3	3			
	Technology	- 2				
	Mold Flow Analysis	3	3			
	Introduction to Nanotechnology	3	3			
	Computer-Aided Engineering	3	3			
	Application of the Measurement Technology Practice in Solar Thermal	3	3			
	Practice in Solar Thermal	3	3			
	Human Machine Interface (HMI) Practice	3	3			
Department Elective	Materials Science and Engineering	3	3			
Courses	The Theory of Inventive Problem Solving	3	3			
	CAD/CAM Practice and Application	3	3			
	Practices of Interdisciplinary Creactivity	3	3			
	Creative Design of Mechanical			3	3	
	Devices			,	,	
	Computer-Aided Mold Design			3	3	
	Practice of Automatic Precision			3	3	
	Machinery Design Theory and Practice of			3	3	
	Mechanical Vibrations			3	3	

Cr./hr.=Credit/hour

Remarks:

- According to university regulations, students are required to meet the graduation requirement of basic language proficiency and professional skills.
- 2. Students shall take 4 hours Service Education courses (0 credits) in the first and second semester of the first academic year.
- 3. In the first three years, students must take 16-30 credits per semester, and 9-30 credits per semester in the 4 year.
- Minimum credits required for graduation: 128 credits including 100 compulsory credits, and at least 28 elective credits (16 interdepartmental credits are included).
- 5. Students having graduated from a foreign country, including Hong Kong and Macau, with the equivalent of the second year of high school study of the ROC's high school sophomore level, or with a high school equivalent degree, need to take 140 credits including 100 compulsory credits, and at least 40 elective credits (including inter-departmental elective credits), while elective professional course credits shall not be fewer than 28. The program can be extended up to 3 academic years.
- 6.Students should take off-campus internship courses, and the relevant measures are handled in accordance with the Implementation of Off-campus Internship Teaching for Students in the Department of Mechanical Engineering".
- 7. Elective courses are subject to change if necessary.









修正後

4.最低畢業學分:128學分;必修學分:100學分;選修學分:28學分(選修學分含跨系選修學分);惟於本系專業選修學分不得低於16學分。 5.畢業年級相當於國內高級中學二年級之國外或香港、澳門同類同級學校畢業生,以同等學歷

香港、澳門同類同級學校畢業生,以同等學歷修讀本校學士學位者,最低畢業學分:140學分;必修學分:100學分;選修學分:40學分(選修學分含跨系選修學分),惟於本系專業選修學分不得低於28學分,可延長修業年限三年。

修正前

4.最低畢業學分:128學分;必修學分:109學分;選修學分:19學分(選修學分含跨系選修學分);惟於本系專業選修學分不得低於7學分。

5.畢業年級相當於國內高級中學二年級之國外或香港、澳門同類同級學校畢業生,以同等學歷修讀本校學士學位者,最低畢業學分:140學分;必修學分:109學分;選修學分:31學分(選修學分含跨系選修學分),惟於本系專業選修學分不得低於19學分,可延長修業年限三年。





機工程系那國益

工程學院李志鴻院 長李志鴻