Far East University Curriculum of Mechanical Engineering Department for Four-Year Bachelor's Degree Program
-Day Division (Effective from Fall 2022)

-Day Division (Effective from Fall 2022)											
			第一	學年	第二	學年	第三	學年	第四	學年	
				1st school year		ool year	3rd sch	ool year	4th school year		
		科目名稱	上學期	下學期	上學期	下學期	上學期	下學期	上學期	下學期	
		Subject				2nd semester		2nd semester			
			學分 時數	學分 時數 Credits Hours	學分 時數 Credits Hours	學分 時數 Credits Hours	學分 時數			學分 時數 Credits Hours	
		岡 ナ (1)(2)	Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours	
		國文(1)(2)	2/2	2/2							
		Chinese (1) (2)									
	17 m	英文聽力與閱讀(1)(2)	2/2	2/2							
		English Listening and Reading(1)(2)									
	基礎	體育(1)(2)(3)(4)	2/2	2/2	2/2	2/2					
	必修	Physical Education(1)(2)(3)(4)									
	Required General	服務教育與大學社會責任(1)(2)	0 / 1	0 / 1							
	Education	Service Education and University Social	0/1	0/1							
	Courses	Responsibility (1)(2)									
		英文閱讀與寫作			2/2						
		English Reading and Writing	0.4 =	0.4 =	4 / 4	0.4.0	0.4.0	0 / 0	0 / 0	0.4.0	
		小計Subtotal	6/7	6/7	4/4	2/2	0/0	0/0	0/0	0/ 0	
		創意思考與AI智慧生活		2/2							
校訂		Creative Thinking and AI Smart Living									
課程		倫理與品格			2/2						
Stipulated	通識博	Ethics and Character Education			=: <b>=</b>						
Courses	雅必修	科學與自然、人文與社會				0 / 0	0 / 0	0 / 0			
	Required	Science and Nature, Humanities and				2/2	2/2	2/2			
	Liberal Arts Courses	Social Sciences									
		創意實作								2/2	
		Innovations and Implementations									
		公民教育 Citional in Education								2/2	
		Citizenship Education	0 / 0	0/0	0/0	0/0	0/0	0/0	0 / 0	4 / 4	
		小 計Subtotal	0/0	2/2	2/2	2/2	2/2	2/2	0/0	4/4	
	一般 選修 General Elective Courses	全民國防教育軍事訓練(1)(2)(3)(4)	0/0	0/0	0/0	0 / 0					
		National Defense Education and	2/2	2/2	2/2	2/2					
		Military Training (1)(2)(3)(4)									
		健康與護理(1)(2)(3)(4)	2/2	2/2	2/2	2/2					
		Health and Nursing(1)(2)(3)(4)	4 / 4	4 / 4	4 / 4	4 / 4	0 / 0	0 / 0	0 / 0	0 / 0	
		小 計Subtotal	4/4	4/4	4/4	4/4	0/0	0/0	0/0	0/0	
		微積分	3/3								
		Calculus									
		物理	3/3								
		Physics									
	課程	電腦軟體應用		2/2							
		Computer Software Application									
	College	職場倫理 Employment Ethics		2/2							
	Courses										
		簡報製作與表達 Presentation and Communication Skills				2/2					
			0 / 0	1/1	0 / 0	9/9	0 / 0	0 / 0	0 / 0	0 / 0	
		小計Subtotal	6/6	4/4	0/0	2/2	0/0	0/0	0/0	0/0	
		工程概論	1/ 1								
		Introduction of Engineering									
		圖學與電腦繪圖 C. L. C.	3/3								
		Graphics and Computer Graphics									
		機械製造		2/2							
		Manufacturing Engineering									
		程式設計 Programming Design		3/3							
專業必		Programming Design									
修課程		數控工具機與實習			9/9						
Profess		Computer Numerical Control Machine			3/3						
ional		Tools and Practice									

Far East University Curriculum of Mechanical Engineering Department for Four-Year Bachelor's Degree Program
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-Day Divisi								ht 189 L			
			學年		學年	I	學年	第四學年			
				ool year		ool year		ool year	4th school year		
科目名稱				下學期	上學期	下學期	上學期		上學期	下學期	
					1st semester		l		l	t	
				學分 時數	學分 時數						
ionai			Credits Hours	Credits Hour							
Required		工程力學與實驗			3/3						
Courses		Engineering Mechanics and Experiment			0, 0						
	系必修	可程式控制實習			3/3						
		Programmable Logic Controller Practice			07 0						
	課程	機械材料與實驗				3/3					
	Required Department	Mechanical Material and Test				ა/ ა					
		感測器原理與應用				0 / 0					
		Application and Theory of Sensor				3/3					
		機械設計									
		Design of Machine Elements					3/3				
		熱流概論與實驗									
		Introduction to Heat and Fluid and					3/3				
		Evneriment									
		<b>氣液壓學與實習</b>									
		Introduction and Practice of Pneumatics					3/3				
		and Hydraulics									
		實務專題(1)(2)					1 / 9	1 / 9			
		Project(1)(2)					1/3	1/3			
		機電整合實習						2 / 2			
		Practice of Mechatronic						3/3			
		小 計Subtotal	4/4	5/5	9/9	6/6	10/ 12	4/6	0/ 0	0/ 0	
			7/ 7	0/ 0	0/ 0	0/ 0	10/ 12	1/ 0	07 0	07 0	
	術與維護課程 模組 Manufacturing Technology and Maintenance Course	工廠實習	3/3								
		Factory Practice								-	
		電腦輔助立體製圖		3/3							
		Computer-Aided 3D Drawing									
		精密量測與實習			0 / 0						
		Theory and Practice of Precision			3/3						
		Measurement								<del> </del>	
		熱處理與實習				2/2					
		Heat Treatment and Practice								-	
		冷凍空調原理與實務					2 / 2				
		Principle and Practice of Refrigeration					3/3				
		and Air Conditioning								-	
		車銑複合加工實務						3/3			
		Milling and Turning Compound Processing						0, 0			
		電腦輔助製造							3/3		
		Computer Aided Manufacturing							0/ 0		
		模具設計實務								3/3	
		Mold Design Practice								0/ 0	
		小 計Subtotal	3/3	3/3	3/3	2/2	3/3	3/3	3/3	3/3	
	自動化	電工學與實習	9/9								
	實務課	Electric Machinery and Practice	3/3								
		數位邏輯與實習			0/0						
	Automation	Digital Logic Design and Practice			3/3						
	Practice Course	自動控制與實習				0 : -					
	Module	Automatic Control and Experiment				3/3					
	Module	微控器應用與實習									
		Microcontroller Application and Practice					3/3				
		氣壓順序控制與實習									
		大学 原子 真 自   Pneumatic Sequential Control and Practice						3/3			
		智慧生活應用與實習								<u> </u>	
		有志生冶應用與真自 Application and Practice of Smart life						3/3			
										<del>                                     </del>	
		電腦監控應用與實習 PC Based Control Application and Practice							3/3		
<b>ル</b> 士		PC-Based Control Application and Practice	l		L	l	L	l	l	J	

Far East University Curriculum of Mechanical Engineering Department for Four-Year Bachelor's Degree Program
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				• .					第四學年 4th school year		
		11 D B 16		ool year		ool year	3rd school year				
		科 目 名 稱		下學期	上學期	下學期	上學期		上學期	下學期	
		Subject				2nd semester					
			學分 時數	學分 時數	學分 時數	學分 時數 Credits Hours	學分 時數	學分 時數	學分 時數 Credits Hours	學分 時數 Credits Hours	
系專		工業影像檢測與實習	creates Hours	Cicuis Hours	Creato Hours	cicals Hours	creato Hours	creats Hours		creato Hours	
業選		Practice of Industrial Image Inspection							3/3		
修		機器人應用與實習									
-		Application and Practice of Manipulator								3/3	
課程 Professional			3/3	0/0	3/3	3/3	2/2	6/6	6/6	3/3	
Elective		小 計Subtotal	ე/ ე	0/ 0	ე/ ე	ე/ ე	3/3	0/ 0	0/ 0	<u> </u>	
Courses		工程力學		3/3							
		Engineering Mechanics									
		機構學			2/2						
		Mechanism									
		工程數學			2/2						
		Engineering Mathematics									
		工程材料			3/3						
		Engineering Materials			0, 0						
		熱力學			3/3						
		Thermodynamics			0/ 0						
	其他 Others	動力學				2/2					
		Dynamics				2/ 2					
		創意性機構設計與實習					3/3				
		Creative Mechanism Design and Practice					0/ 0				
		半導體製程					3/3				
		Semiconductor Process					0/ 0				
		材料力學						2/2			
		Mechanics of Materials						L/ L			
		能源工程						3/3			
		Energy Engineering						0/ 0			
		材料機械性質							2/2		
		Mechanical Property of Materials							Z/ Z		
		模流分析實務							3/3		
		Molding Flow Analysis and Practice							3/ 3		
		學期校外實習							9/		
		Off-Campus Internship							97		
		專利與工程創新								2/2	
		Patents and Engineering Innovation								2/ 2	
		產業校外實習								9/	
		Off-Campus Industrial Internship								9/	
		電腦輔助工程分析								3/3	
		Computer-Aided Engineering Analysis								ე/ ე	
		小 計Subtotal	0/0	0/0	2/2	2/2	6/6	5/5	14/5	14/5	
	選修學分										
	Minimum	合 計Total	3/ 3	2/ 2	4/4	7/7	6/6	10/ 10	9/ 9	5/5	
Elective	e Credits		111 Æ	05 H 02 P	払細ねが	(	合丝沼田	Amandal	Data: 2	022-05-03	
			111年	03月03日	仪酥柱贺	<b>で</b>	曾锹进迤	<i>i</i> Amenaea	Date · 20	144-03-03	

111年05月03日 校課程發展委員會會議通過Amended Date: 2022-05-03 112年02月22日 校課程發展委員會會議修正通過Amended Date: 2023-02-22 112年05月23日 校課程發展委員會會議修正通過Amended Date: 2023-05-23 113年10月04日 校課程發展委員會會議修正通過Amended Date: 2024-10-04

Far East University Curriculum of Mechanical Engineering Department for Four-Year Bachelor's Degree Program
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	,	第一	學年		,	第二	學年	,,,	j	第三	學年	,,,	第四學年			-
	1st school year				2nd school year			3rd school year			4tł	scho	ool ye	ear		
科目名稱	上學	上學期 下學期		上學	・期	b 下學期		上學期		下學期		上學期		下學期		
Subject	1st semester 2		2nd semester		1st semester		2nd semester		1st semester		2nd semester		r 1st semester		2nd semester	
	學分															
	Credits	Hours	Credits	Hours	Credits	Hours	Credits	Hours	Credits	Hours	Credits	Hours	Credits	Hours	Credits	Hours

#### 一、畢業總學分至少128學分:

The total number of credits completed to be eligible to graduate shall not be less than 128 credits.

1.校訂必修32學分(含通識基礎必修18學分、通識博雅必修14學分)。

The stipulated compulsory credits shall be 32 credits.(18 credits for required general education courses, and 14 credits for required liberal arts courses.)

2.專業必修50學分(院必修12學分、系必修38學分)。

The professional compulsory credits shall be 50 credits.(12 credits for required college courses, and 38 credits for required department courses.)

3.系專業選修至少26學分。

The professional elective credits shall be not less than 26 credits.

4. 跨系選修至少6學分。

The number of inter-department elective credits shall be not less than 6 credits.

※「微學分課程」最多採計12學分。

The number of 'Micro-Credit Courses' credits shall be up to 12credits.

二、畢業門檻: Graduation Threshold

1.學生於修業年限內,應修畢「校訂必修」、「專業必修」、「系專業選修(含跨系選修)」共計128學分。

Students are required to complete a total of 128 credits of "Stipulated Compulsory Course", "Professional Compulsory Course", and "Department Professional Elective Course" ("inter-college elective" included) within their academic years.

2.系專業能力門檻(遠東科技大學機械工程系畢業門檻實施要點辦理)。

備註 Note Department Professional Threshold (Far East University Regulations of Graduation Threshold of Mechanical Engineering Department )

3.英文能力門檻(遠東科技大學輔導學生取得英檢證照實施辦法辦理)。

English Proficiency Threshold (Far East University Regulations of Tutoring Students to Get English Proficiency Certificates) 三、校訂課程:Stipulated Courses

1.校訂課程不須依先後順序修課,不得互抵者,包括「國文(1)(2)、英文聽力與閱讀(1)(2)、體育(1)(2)(3)(4)」課程。

Stipulated courses are not required to be taken in sequence and the credits shall not be mutually transferred, including "Chinese (1) (2), English listening and reading (1) (2), and physical education (1) (2) (3) (4)" courses.

2.校訂課程不須依先後順序修課,得互抵者,僅為「服務教育與大學社會責任(1)(2)」課程。

Stipulated courses are not required to be taken in sequence and those that may be mutually complemented by each other may be only "Service Education and University Social Responsibility (1) (2)".

3.校訂課程不須依先後順序修課,包括「全民國防教育軍事訓練(1)(2)(3)(4)、健康與護理(1)(2)(3)(4)」課程。 Stipulated courses are not required to be taken in sequence, including National Defense Education and Military Training (1)(2)(3)(4) and Health and Nursing(1)(2)(3)(4).

4.「創意思考與AI智慧生活」、「倫理與品格」課程在一年級下學期、二年級上學期開課,得依實際情形上下學期調整。「倫理與品格」課程含括環境倫理、生命倫理及性別倫理三門,依實際情形排定一門,學生擇一修課即可。

Creative Thinking and Training and AI Smart Life shall be offered at the second semester of the freshman and at the first semester of the sophomore year and be adjusted based on the actual situation in the first and second semesters. Ethics and Character Education includes three courses: environmental ethics, bioethics, and gender ethics. Each course may be arranged according to the actual situation, and students shall choose one course.

四、專業課程:Professional Courses:

1.「實務專題(1)(2)」課程應依先後順序修課,得互抵。

Project(1)(2) shall be taken in sequence and may complement each other.