Far East University Curriculum of Mechanical Engineering Department for Four-Year Bachelor's Degree Program
-Day Division (Effective from Fall 2021)

	Day Divi			學年		學年	第三	學年	第四學年		
			•	ool year		ool year		ool year	4th school year		
I			上學期	下學期	上學期	下學期	上學期	下學期	上學期	下學期	
			1st semester	 	1st semester			2nd semester		2nd semester	
			學分 時數 Credits Hours	學分 時數 Credits Hours	學分 時數 Credits Hours		學分 時數 Credits Hours	學分 時數 Credits Hours	學分 時數 Credits Hours	學分 時數 Credits Hours	
		國文(1)(2)			Cicuis Hours	Creatio Trouts	Creatio Trouts	Crouns Hours	Ciculis Tionis	Cicuis Tions	
		Chinese (1) (2)	2/2	2/2							
		英文聽力與閱讀(1)(2)	0.4.0	2 / 2							
		English Listening and Reading(1)(2)	2/2	2/2							
	通識基礎	體育(1)(2)(3)(4)	2/ 2	2/2	2/2	2/2					
		Physical Education(1)(2)(3)(4)	L/ L	2/ 2	<i>L/ L</i>	<i>L</i> / <i>L</i>					
	必修 Required	服務教育與大學社會責任(1)(2)	0 / 1	0 / 1							
	General	Service Education and University Social Responsibility (1)(2)	0/1	0/1							
	Education	英文閱讀與寫作									
	Courses	English Reading and Writing			2/2						
		英語聽講練習				0 / 0					
		English Listening and Speaking Practice				2/2					
l		小 計Subtotal	6/7	6/7	4/4	4/4	0/0	0/0	0/0	0/0	
		創意思考與訓練		2/2							
校訂	通識博 雅必修 Required Liberal Arts	Creative Thinking and Training		<i>27 2</i>							
課程		倫理與品格			2/2						
Stipulated Courses		Ethics and Character Education 科學與自然、人文與社會									
		大字典自然、人文典在曾 Science and Nature, Humanities and				2/2	2/2	2/2			
		Social Sciences				<i>D</i> / <i>D</i>	<i>D</i> / <i>D</i>	<i>27 2</i>			
		健康促進與外國語文					2/ 2	2/ 2			
		Health Promotion and Foreign Languages					2/ 2	2/ 2			
		創意實作								2/2	
		Innovations and Implementations 公民教育									
		公尺収月 Citizenship Education								2/2	
		小 計Subtotal	0/0	2/2	2/2	2/2	4/4	4/4	0/ 0	4/4	
	General	全民國防教育軍事訓練(1)(2)(3)(4)									
		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 Calculus	3/3								
		物理	2 / 5								
	院必修	Physics	3/3								
	課程	電腦軟體應用		2/2							
		Computer Software Application		4/ 4							
		職場倫理		2/2							
	Courses	Employment Ethics 簡報製作與表達									
		間報報作與衣達 Presentation and Communication Skills				2/2					
		小計Subtotal	6/6	4/4	0/0	2/ 2	0/ 0	0/ 0	0/0	0/0	
		工程概論									
		Introduction of Engineering	1/ 1								
		圖學與電腦繪圖	3/3								
		Graphics and Computer Graphics	U/ U								
		機械製造 Manufacturing Engineering		2/2							
		Manufacturing Engineering 程式設計									
		程式 訳 司 Programming Design		3/3							
		0		J							

Far East University Curriculum of Mechanical Engineering Department for Four-Year Bachelor's Degree Program
-Day Division (Effective from Fall 2021)

			第一學年				學年	第三	. 學 年	第四學年 4th school year		
			1st school year			ool year		ool year				
3				學期	下學		上學期	下學期	上學期	下學期	上學期	下學期
										2nd semester		
	ਰ Cr			時數 Hours	學分 Credits I	 Yours	學分 時數 Credits Hours	學分 時數 Credits Hours	學分 時數 Credits Hours	學分 時數 Credits Hours	學分 時數 Credits Hours	學分 時數 Credits Hour
		工程數學(1)					2/ 2					
專業必		Engineering Mathematics (1)					Z/ Z					
修課程		數控工具機與實習										
Professional Required		Computer Numerical Control Machine					3/3					
Courses	系必修	Tools and Practice										
		工程力學與實驗 Engineering Mechanics and Experiment					3/3					
		可程式控制實習										
	課程	Programmable Logic Controller Practice					3/3					
	Required Department	機械材料與實驗						0 / 0				
	Courses	Mechanical Material and Test						3/3				
	Courses	感測器原理與應用						3/3				
		Application and Theory of Sensor						J/ J				
		機械設計(1)							3/3			
		Design of Machine Elements(1)							07 0			
		熱流概論與實驗 Introduction of Heat & Fluid and							0/0			
		Experiment							3/3			
		氣液壓學與實習										
		Introduction and Practice of Pneumatics and							3/3			
		Hydraulics										
		實務專題(1)(2)							1/3	1/3		
		Project(1)(2)							17 0	17 0		
		機電整合實習(1)								3/3		
		Practice of Mechatronic(1) 小 計Subtotal	4/	1	5/ 5		11/ 11	6/6	10/ 12	4/6	0/0	0/0
		工廠實習			J/ U	1	11/ 11	0/ 0	10/ 12	4/ 0	07 0	0/ 0
		Factory Practice	3/	3								
	護課程 模組	電腦輔助立體製圖			0 / 0							
		Computer-Aided 3D Drawing			3/3)						
		精密量測與實習										
		Theory and Practice of Precision					3/3					
		Measurement										
		熱處理與實習 Heat Treatment and Practice						2/2				
		冷凍空調原理與實務										
		Principle and Practice of Refrigeration and							3/3			
	and	Air Conditioning										
	Maintenance Course	車銑複合加工實務								3/3		
	Module	Milling and Turning Compound Processing								0, 0		
		電腦輔助製造 Computer Aided Manufacturing									3/3	
		模具設計實務										
;		Mold Design Practice										3/3
		小 計Subtotal	3/	3	3/ 3	}	3/3	2/ 2	3/3	3/3	3/3	3/3
		電工學與實習										
		Electric Machinery and Practice	3/	ა								
		工業配線			2/ 2	,						
		Industrial Distribution			<i>L</i> / <i>L</i>	'						
		機構學					2/2					
		Mechanism										
		數位邏輯與實習					3/3					
		Digital Logic Design and Practice	<u> </u>					l	<u> </u>	<u> </u>	<u> </u>	L

Far East University Curriculum of Mechanical Engineering Department for Four-Year Bachelor's Degree Program
-Day Division (Effective from Fall 2021)

		-Day Divi		ective fro 學 年				留 左		留 左	
				学 平 ool year		學年 ool year	· ·	學 年 ool year	第四學年 4th school year		
科 目 名 稱 Subject			上學期	下學期	上學期	下學期	上學期	下學期	上學期	下學期	
				2nd semester				2nd semester		2nd semester	
Į.				學分 時數	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	
		可進階程式控制實習	Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours	Credits Hours	
	自動化	Practice of Advanced Programmable				3/3					
	實務課	Logic Control				0, 0					
	程模組 Automation	自動控制與實習				3/3					
		Automatic Control and Experiment				0/ 0					
		微控器應用與實習					3/3				
	Module	Microcontroller Application and Practice 電腦監控應用與實習									
系專業		BM 監 程 應 用 祭 頁 自 PC-Based Control Application and Practice					3/3				
系 等 亲 選修		氣壓順序控制與實習						0 / 0			
課程		Pneumatic sequential control and practice						3/ 3			
Professional		機電整合實習(2)							3/3		
Elective Courses		Practice of Mechatronic (2)									
Courses		機器人應用與實習 Application and Practice of Manipulator								3/3	
		小 計Subtotal	3/3	2/2	5/5	6/6	6/6	3/3	3/3	3/3	
		動力學	3, 3		0, 0		0, 0	0, 0	0, 0	0, 0	
		Dynamics				2/2					
		工程數學(2)				2/2					
		Engineering Mathematics(2)				27 2					
		材料力學					2/2				
		Mechanics of Materials 機械設計 (2)									
		Design of Machine Elements (2)						2/2			
	其他 Others	能源工程						2 / 2			
		Energy Engineering						3/ 3			
		表面處理與實習						3/3			
		Surface Treatment and Practice						07 0			
		工業影像檢測與實習 Practice of Industrial Image Inspection							3/3		
		專利與工程創新									
		Patents and Engineering Innovation							2/2		
		材料機械性質							2/ 2		
	0 111015	Mechanical Property of Materials							2/ 2		
		模流分析實務							3/3		
		Molding Flow Analysis and Practice 學期校外實習									
		子州 (大) 自 Off-Campus Internship							9/		
		產業校外實習								0 /	
		Off-Campus Industrial Internship								9/	
		電腦輔助工程分析								3/3	
		Computer-Aided Engineering Analysis									
		射出成型實務 Injection Molding Technology and								9/9	
		Injection Molding Technology and Practice								3/3	
		物聯網應用與實習									
		初聯網應用興賃音 Applications and Practice of IOT								2/2	
		小 計Subtotal	0/0	0/0	0/0	4/4	2/ 2	8/8	19/ 10	17/8	
擬開最但	選修學分	1. 1 54515141	0/ 0	0/ 0	0/ 0	1/ 1	<i>U/ U</i>	0/ 0	10/ 10	11/ 0	
Proposed	Minimum	合 計Total	3/ 3	5/5	5/5	5/5	6/6	8/8	9/9	5/5	
Electiv	e Credits		110	ケ06日20	口拉细伯		人人兴况 、	 過Amended	1 D-4- : 2	021 06 20	

110年06月29日 校課程發展委員會會議通過Amended Date: 2021-06-29

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07月30日 校課程發展委員會會議修正通過Amended Date: 2024-07-30

Far East University Curriculum of Mechanical Engineering Department for Four-Year Bachelor's Degree Program
-Day Division (Effective from Fall 2021)

	第一學年				第二學年				第三學年				第四學年			
	1st school year				2nd school year				3rd school year				4tl	h sch	ool year	
科目名稱	上点	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	1st semester 2nd seme		mester	ester 1st sen		mester 2nd semeste		1st semester		2nd semester		r 1st semester		2nd semester		
	學分	時數	學分	時數	學分	時數	學分	時數	學分	時數	學分	時數	學分	時數	學分	時數
								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38學分(含通識基礎必修20學分、通識博雅必修18學分)。

The stipulated compulsory credits shall be 38 credits.(20 credits for required general education courses, and 18 credits for required liberal arts courses.)

2.專業必修52學分(院必修12學分、系必修40學分)。

The professional compulsory credits shall be 52 credits.(12 credits for required college courses, and 40 credits for required department courses.)

3.系專業選修至少29學分。

The professional elective credits shall be not less than 29 credits.

4.一般選修至多9學分(開放學生自由選修本系或外系課程,其中「微學分課程」最多採計9學分)。

The general elective credits shall be up to 9 credits. (Open for students to freely choose courses within their own or other departments, with a maximum of 9 credits for 'Micro-Credit Courses')

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(含一般選修)」共計128學分。
Students are required to complete a total of 128 credits of "Stipulated Compulsory Course", "Professional Compulsory

Course", "Department Professional Elective Course", ("General Elective Course" 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.「創意思考與訓練」、「倫理與品格」課程在一、二年級開課,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 Ethics and Character Education shall be offered in the freshman and 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.