112學年度日間部 風力發電學位學程 四技課程規劃表

第一學年(112)						第二學年(113)					第三學年(114)						
	412	上學期 下學期		學期	41.0		上	學期	下學期			61.52	上學期		下學期		
	科目	學分	時數	學分	時數]	科目	學分 時數		學分	時數	£	科目	學分	時數	學分	時套
M	惟育	1	2	1	2		分類通識	2	2	2	2						
校	分類通識	2	2	2	2	校必	分類通識	2	2			校					
必修	分類通識	2	2	2	2	必修						必修					
	小計	5	6	5	6		小計	4	4	2	2		小計				
	微積分(一)(二)	3	3	3	3		科技英文(三)(四)	2	2	2	2						
	物理(一)(二)	2	2	2	2	433	工程倫理	2	2 _								
	應用中文(一)(二)	2	2	2	2					Cylinar							
院	科技英文(一)(二)	2	2	2	2	院						院					
弘	程式设计	2	2			必						必					
修	人工智慧概論			2	2	修						修					
	小計	11	11	11	11		小計	4	4	2	2		小計	la p			100
	風力發電概論	3	3				工程數學(一)	3	3			專業必修	電力系統	3	3		
	綠能科技	3	3				工程力學	3	3				離岸風電結構與海事工程	3	3		
	機電系統概論			2	2		電子學(一)	3	3				可程式控制器			3	3
	風力發電系統質務			3	.3		粒岸與陸域風電基礎	3	3				實務專題(一)(二)	1	1	1	1
	3,1					100	電機機械實習			1	2		粒岸與陸域風電堆運工程			3	3
吏						專	電機機械			3	3						
專業必修						業	电路径(一)			3	3						
						沙	電腦層圈(一)			3	3						
						修	建築BIM建模			- 3	3		1				
	小計	6	6	5	5	100	小計	12	12	13	14		小計	7	7	7	7
													工業安全衛生	3	3		
													訊號與系統	3	3		
												專業選修	微處理機實務	3	3		
										3			發電系統與能量轉換	3	3		
													配電工程	3	3		
													半早體製程與設備	3	3		
													電路學(二)	3	3		
專						專							电隔绘图(二)	3	3		
紫選						業選修							微電網系統			3	3
修修													智思環境監測實務			3	3
													非破壞性檢測實務			3	3
													雄建县			3	3
													電力電子實務			3	3
													智慧電網			3	3
													工程數學(二)			3	3
													電子學(二)			3	3
													小計	24	24	24	24

		上生	早期	下	學期
	科目	學分	時數	學分	時態
校					
必修	小計				
院必					
修	小計				5.4
專業	校外實習	4		9	9
必修	小計			9	9
¥.	風電實務(校外實習)	9	9		
	人並介面與國形監控技術	3	3		
	量測技術與應用	3	3		
	電力負載管理	3	3		
	電動機控制實務	3	3		
	環境影響評估	3	3		
車	工程採購與發包			3	3
業	專案管理			3	3
選	即時控制實務			3	3
修	控制系統設計			3	3
	機器人工程			3	3
	地理資訊系統實務	-		3	3
	小計	24	24	18	18

專業選修課程開課	見劃
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	9
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	27

料目類別: 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

項目	學分	時數
校必修	16	18
院必修	28	28
專業必修	59	60
專業選修	25	25
合計	128	131

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.學生寫終習勞作教育(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:103學分;選修學分:25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13學分。

5.單意年級報告部署內稿級中學二年版之器計成香港、議門兩額同級學校學選生,以 同等學歷經續承校學士學位告,最低學哲學分:14個學分;此學學分:183學分: 選修學分:37學分(國後學分含跨乘遊樂學分),惟介本集專業巡修學分不得執於25學分

可延收份章年限三年。 6.學生應修習校外實質課程,相關辦法依「本校風力發電學士學位學經學生校外實質數學實施要點」辦理。

7.四年級上學期校外實習選修9學分,科目名稱為風電實務,僅限參與校外實習者選修。

7.四年級工字期投外員首題於9字分, 村日名稱為城电員榜, 徑限子與校外員首省題於 8.表列選修課程僅供參考, 依實際狀況調整。





MUST Curriculum Planning for Undergraduate Students for Academic Years 2023-2026 Bachelor Program of Wind Power

1st year(112)					2 nd year(113)						3 rd year(114)						
			Ist		2 nd				st ester		ester			1st semester			ester
	Course	Cr.	hr.	Cr.	hr.		Course	Cr.	hr.	Cr.	hr.		Course	Cr.	hr.	Cr.	h
III TELLINE	Physical Education	1	2	1	2		Classified General Education	2	2	2	2						
MUST Core	Classified General Education	2	2	2	2	MUST Core	Classified General Education	2	2			MUST Core					
Required	Classified General Education	2	2	2	2	Required Courses						Required Courses					
Courses	Subtotal	5	6	5	6	Courses	Subtotal	4	4	2	2	Courses	Subtotal				118
	Calculus (I) (II)	3	3	3	3	美国地区	Technical English (III) (IV)	2	2	2	2						
	Physics (I) (II)	2	2	2	2		Ethics for Engineers	2	2						1		
	Applied Chinese(I)(II)	2	2	2	2	0.1.1						School					L
School	Technical English(I)(II)	2	2	2	2	School Professional			Comment to the second			Professional					
Professional Required	Introduction to Programming	2	2	1		Required						Required					
Courses	Introduction to Artificial Intelligence			2	2	Courses						Courses					
	Subtotal	11	11	11	11		Subtotal	4	4	2	2		Subtotal				
	Introduction to Wind Power	3	3				Engineering Mathematics I	3	3				Power System	3	3		_
	Green Energy Technology	3	3				Engineering Mechanics	3	3				Offshore Wind Farm Structures and Maritime Engineering	3	3		
	Introduction to Mechatronics			2	2		Electronics 1	3	3				Programmable Logic Controller			3	1 8
	Circuit Theory I			3	3	Compulsory	Offshore & Onshore Wind Turbine Foundation	3	3				Special Practical Projects (I)(II)	1	1	1	
Compulsory							Electrical Machinery Practice			1	2	Compulsory	Offshore & Onshore Wind Operations and Maintenance Engineering			3	
courses	-					courses	Electrical Machinery			3	3	courses					
		-	_	-	-		Wind Power System Practice			3	3						
				-	-		Computer Aided Drawing I		-	3	3			20172-1			
			-	-	-		Building Information Modeling			3	3				-		
					-		Building information wordering			3	-						
	Subtotal	6	6	5	5		Subtotal	12	12	13	14		Subtotal	7	7	4	
													Industrial Safety and Health	3	3		_
													Signal and System	3	3		
													Microcontroller Practice	3	3		
												Elective Courses	Power Generation System and Energy Conversion Electric Distribution	3	3		
													Engineering	3	3		
													Semiconductor Manufacturing Process and Equipment	3	3		
													Circuit Theory II	3	3		-
Elective Courses						Elective Courses							Computer Aided Drawing II Smart Environmental	3	3		
													Monitoring Practices			3	
		-		-				-	-	-			Microgrid Systems Design		-	3	+
									-	-			Non-destructive Testing Practice		-	1000	+-
													Green Building			3	-
													Power Electronics Practices			3	_
												A SALE	Smart Grid			3	L
													Engineering Mathematics II			3	
				1								7,57 4 4 10 5	Electronics II			3	

	4 th year(115)		st	2	be,
	Course semester				ester
		Cr.	hr.	Cr.	hr
MUST Core					
Required					
Courses	Subtotal				
School Professional					
Required			17		
Courses	Subtotal	ME S			
0 1	Off-Campus Practice Training			9	9
Compulsory					
	Subtotal	0	0	9	9
	Industrial Practice Training	9	9		
	Human-Machine Interface and Graphics Monitoring Technology	3	3		
	Measurement Technology and Applications	3	3		
	Power Load Management	3	3		
	Electric Motor Control Practices	3	3		
Elective Courses	Environmental Impact Assessment	3	3		
Courses	Project Procurement & Contract Award			3	3
	Geographic Information System Practice			3	3
	Project management			3	3
	Real-time Control Practices			- 3	3
	Control System Design			3	3
	Robotics Engineering			3	3

Cr./hr.=Credit/hour

Remarks:

- 1. 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 4th year.
- 4. Minimum credits required for graduation: 128 credits including 103 compulsory credits, and at least 25 elective credits (13 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 103 compulsory credits, and at least 37 elective credits (including inter-departmental elective credits), while elective professional course credits shall not be fewer

than 25. 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. The optional off-campus intership in the first semester of the fourth grade is 9 credits. The subject name is Wind Power Practice, which is limited to those who participate in the off-campus internal

8. Elective courses are subject to change if necessary.





