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

1 st year(112)					2 nd year(113)					3 rd year(114)							
	Course	1st semester		2 nd semester			Course	l st semester		2 nd semester			Course	l st semester		2 nd semester	
	course	Cr.	hr.	Cr.	hr.		course	Cr.	hr.	Cr.	hr.		course	Cr.	hr.	Cr.	hr.
MUST Core Required Courses	Physical Education	1	2	1	2	MUST Case	Classified General Education	2	2	2	2	MUST Com					
	Classified General Education	2	2	2	2	Required	Classified General Education	2	2			Required					
	Classified General Education	2	2	2	2	Courses						Courses					
	Subtotal	5	6	5	6		Subtotal	4	4	2	2		Subtotal				
School Professional Required Courses	Calculus (I) (II)	3	3	3	3	4	Technical English (III) (IV)	2	2	2	2						
	Physics (I) (II)	2	2	2	2	-	Ethics for Engineers	2	2								
	Applied Chinese(I)(II)	2	2	2	2	School						School					
	Technical English(I)(II)	2	2	2	2	Professional						Professional Required Courses					
	Introduction to Programming	2	2			Required											
	Artificial Intelligence			2	2	Courses											
	Subtotal	11	11	11	11		Subtotal	4	4	2	2		Subtotal				
Compulsory courses	Introduction to Wind Power	3	3			-	Engineering Mathematics I	3	3			Power System		3	3		
	Green Energy Technology	3	3				Engineering Mechanics	3	3				and Maritime Engineering	3	3		
	Introduction to Mechatronics			2	2		Electronics I	3	3				Programmable Logic Controller			3	3
	Circuit Theory I			3	3		Offshore & Onshore Wind Turbine Foundation	3	3				Special Practical Projects (I)(II)	1	1	1	1
													Offshore & Onshore Wind				
						Compulsory	Electrical Machinery Practice			1	2	Compulsory	Operations and Maintenance Engineering			3	3
						courses	Electrical Machinery			3	3	courses					
							Wind Power System Practice			3	3						
							Computer Aided Drawing I			3	3						
							Building Information Modeling			3	3						
	Subtotal	6	6	5	5		Subtotal	12	12	13	14		Subtotal	7	7	4	4
													Industrial Safety and Health	3	3		
Elective Courses													Signal and System	3	3		
													Microcontroller Practice	3	3		
												Power Generation System and Energy Conversion		3	3		i i
													Electric Distribution	3	3		
						-							Engineering Semiconductor Manufacturing				
						-							Process and Equipment	3	3		
													Circuit Theory II	3	3		
						Elective Courses						Elective Courses	Computer Aided Drawing II	3	3		
													Smart Environmental Monitoring Practices			3	3
													Microgrid Systems Design			3	3
													Non-destructive Testing Practice			3	3
													Green Building			3	3
													Power Electronics Practices			3	3
							Smart Grid		Smart Grid			3	3				
													Engineering Mathematics II			3	3
													Electronics II			3	3

4 th year(115)										
	Course	l sem	st ester	2 nd semester						
	course	Cr.	hr.	Cr.	hr.					
MUST Core										
Required										
Courses	Subtotal									
School										
Professional Demoissed										
Courses										
	Subtotal									
Compulsory	Off-Campus Practice Training			9	9					
courses										
	Subtotal	0	U	y	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	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 internship.

8. Elective courses are subject to change if necessary.