

**MUST Curriculum Planning for Undergraduate Students of Academic Year 2024-2027,
Department of Mechanical Engineering**

Year		112				Year		113				Year		114				
	Course	FEB 2024		SEP 2024		Course	FEB 2025		SEP 2025		Course	FEB 2026		SEP 2026				
		Cr.	hr.	Cr.	hr.		Cr.	hr.	Cr.	hr.		Cr.	hr.	Cr.	hr.			
MUST Core Required Courses	Physical Education	2	2	2	2	MUST Core Required Courses					MUST Core Required Courses	Taiwanese Society	2	2				
	Chinese Pinyin & Pronunciation Practice	1	2											Taiwanese Art			2	2
	Chinese tutor	0	5															
	Chinese Listening	1	2															
	Chinese Daily Speaking	1	2															
	Chinese Reading	1	2															
	Chinese Writing	1	2															
	Chinese Literature			3	3													
	Chinese Culture			3	3													
	Taiwanese Classified General Education			2	2													
Taiwanese Culture			2	2														
Subtotal		7	17	12	12	Subtotal					Subtotal	2	2	2	2			
School Professional Required Courses	Technical English(I)(II)	2	2	2	2	School Professional Required Courses					School Professional Required Courses	Physics	2	2				
	Introduction to Programming			2	2													
	Subtotal	2	2	4	4		Subtotal						Subtotal	2	2	0	0	
compulsory courses	Applied Mathematics			3	3	compulsory courses	Industrial Practice (I)(II)	9	32	9	32	compulsory courses	Computer Aided Mechanical Drafting	3	3			
	Mechanical Concept and Mechanical Drawing	3	3											Automatic Control Practice	2	2		
	Introduction to Artificial Intelligence			3	3									Mechanical Materials	3	3		
	Manufacturing Processes	3	3											Fundamentals of Mechatronics	3	3		
														Design of Machine Elements			3	3
														Mechatronics and Practice			2	2
														Dynamics			2	2
														Precision Instrument and Parts Inspections			3	3
Subtotal	6	6	6	6	Subtotal	9	0	9	0	Subtotal	11	11	12	12				
Elective Courses	Introduction to Mechanical Engineering			3	3	Elective Courses	Machining Practice (I)(II)	3	3	3	3	Elective Courses	Welding Techniques	3	3			
	Applied Mechanics (Statics)	3	3											Semiconductor Manufacturing Process and Equipments	3	3		
														Engineering Mathematics	3	3		
														CAD of Solid Design	3	3		
														Pneumatics Practice	3	3		
														Systematic Innovation Method	3	3		
														Semiconductor Manufacturing Technology	3	3		
														Computer Aided Mechanical Analysis			3	3
														Product Design and Practice			3	3
														Mechanics of Materials			3	3
											Robotic Engineering			3	3			
											Computer-Aided Manufacturing			3	3			

Year		115			
	Course	FEB 2027		SEP 2027	
		Cr.	hr.	Cr.	hr.
MUST Core Required Courses	Subtotal				
School Professional Required Courses	Subtotal				
compulsory courses	Subtotal				
Elective Courses	Industrial Practice (III)(IV)	9	32	9	32
	Introduction to Systematic Innovation Method	3	3		
	Practical design of products	3	3		
	Technology in Reverse Engineering	3	3		
	Application in Thermo Engineering	3	3		
	Product Design Practice	3	3		
	Practices of Freezing and Air-Conditioning Engineering	3	3		
	Heat Treatment	3	3		
	Powder Metallurgy			3	3
	Surface Processing			3	3
	Computer Aided Manufacturing			3	3
	Metal Forming Design and Analysis			3	3

Cr./hr.=Credit/hour

Remarks:

1. Minimum credits required for graduation: 128 credits including 832 compulsory credits, and at least 45 elective credits(including the interdepartmental elective credits).
2. Undergraduate students shall take 5-hour chinese tutoring courses (0 credits) in the first semester of the first academic year.
3. The off-campus internship courses include: Industry Practice Internship (I), (II), (III), (IV), with a maximum of 80 hours of off-campus internship for one credit. Industry Practice Internship (I) and (II): The actual internship hours range from 32 to 36 hours per week. Industry Practice Internship (III) and (IV): The actual internship hours range from 32 to 40 hours per week.
4. The elective courses listed in the tables are subject to adaptation when necessary.

課務會議:114/12/15修訂通過

院務會議:114/12/18修訂通過

教務會議:115/1/7修訂通過