

MUST Curriculum Planning for Undergraduate Students for Academic Years 2025-2028
Department of Mechanical Engineering

1 st year(114)						2 nd year(115)						3 rd year(116)					
	Course	1st semester		2 nd semester			Course	1st semester		2 nd semester			Course	1st semester		2 nd semester	
		Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.
MUST Core Required Courses	Classified general Education	2	2	2	2	MUST Core Required Courses	Classified general Education	2	2	2	2	MUST Core Required Courses	Classified general Education	2	2	2	2
	Physical Education	2	2	2	2		Applied English(III)(IV)	2	2	2	2						
	Applied Chinese(I)(II)	2	2	2	2												
	Applied English(I)(II)	2	2	2	2												
	Subtotal	8	8	8	8		Subtotal	4	4	4	4		Subtotal	2	2	2	2
School Professional Required Courses	Introduction to Computers and Programming	2	2			School Professional Required Courses					School Professional Required Courses						
	Introduction to Artificial Intelligence			2	2												
	Calculus (I) (II)	3	3	3	3												
	Physics (I) (II)	2	2	2	2												
	Subtotal	7	7	7	7		Subtotal	0	0	0		0	Subtotal	0	0	0	0
compulsory courses	Ethics for Engineers	2	2			compulsory courses	Computer Aided Mechanical Drafting	2	2			compulsory courses	Special Topics Practice	1	1	1	1
	Manufacturing Processes	2	2				Engineering Mathematics	3	3				Material Testing	2	2		
	Shop Practice (I)(II)	3	3	3	3		Applied Mechanics (Statics)	2	2				CNC Machine Tools Practice	3	3		
	Mechanical Drawing			2	2		Introuction to Mechatronics Practices	2	2				Design of Machine Elements	3	3		
							Basic Mechatronics	3	3				Precision Instrument and Parts Inspections			2	2
							Dynamics			3	3						
							Mechanics of Materials			3	3						
							Mechanism			3	3						
							Materials of Mechanical Engineering			3	3						
							Mechatronics and Practice			2	2						
							Automatic Control Practice			2	2						
	Subtotal	7	7	5	5		Subtotal	12	12	16	16		Subtotal	9	9	3	3
	Elective Courses							Elective Courses						Elective Courses	Intelligent Manufacturing Practice	3	3
											The Microprocessor Practice	3	3				

4 th year(117)					
	Course	1st semester		2 nd semester	
		Cr.	hr.	Cr.	hr.
MUST Core Required Courses					
	Subtotal	0	0	0	0
School Professional Required Courses					
	Subtotal	0	0	0	0
compulsory courses					
	Subtotal	0	0	0	0
Elective Courses	Practicum Training			9	9
	Automatic Optical Inspection Technology	3	3		
	Mold Flow Analysis	3	3		
	Introduction to Nanotechnology	3	3		
	Computer-Aided Engineering	3	3		
	Application of the Measurement Technology	3	3		
	Practice in Solar Thermal Energy	3	3		
	Human Machine Interface (HMI) Practice	3	3		
	Refrigeration Air-Conditioning Technology	3	3		
	The Theory of Inventive Problem Solving	3	3		
	CAD/CAM Practice and Application	3	3		
	Practices of Interdisciplinary Creativity	3	3		
	Creative Design of Mechanical Devices			3	3
	Computer-Aided Mold Design			3	3
	Practice of Automatic Precision Machinery Design			3	3
	Theory and Practice of Mechanical Vibrations			3	3
	Techniques in multi-axis machine tool			3	3

Cr./hr.=Credit/hour

- Remarks:
- 1.Minimum graduation credits: 128 credits; Compulsory credits: 94 credits.Elective credits: 34credits (elective credits include inter-departmental elective credits); the elective credits for majors in the department must not be lower than 22 credits.
 - 2.In the first three years, students must take 16-30 credits per semester, and 9-30 credits per semester in the 4th year.
 - 3.Elective courses are subject to change if necessary.
 - 4.Please implement according to the school's "Implementation Measures for Students' Basic Abilities and Graduation Thresholds".
 - 5.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 ".
 - 6.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__compulsory credits, and at least elective credits (including inter-departmental elective credits), while elective professional course credits shall not be fewer than.
 - The program can be extended up to 3 academic years.
 - 7.This form created in 2025/11/7