

MUST Curriculum Planning for Undergraduate Students for Academic Years 2024-2027,
Department of Electronic Engineering

1st year(2024)					2nd year(2025)					3rd year(2026)									
	Course	1st semester		2nd semester			Course	1st semester		2nd semester			Course	1st semester		2nd 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														
	Subtotal	6	6	6	6		Subtotal	2	2	2	2		Subtotal						
School Professional Required Courses	Applied English(I)(II)	2	2	2	2	School Professional Required Courses	Applied English(III)(IV)	2	2	2	2	School Professional Required Courses							
	Applied Chinese(I)(II)	2	2	2	2														
	Calculus(I)(II)	3	3	3	3														
	Introduction to Computers and Programming	2	2																
	Chemistry & Chemistry Laboratory	2	2																
	Physics & Physics Laboratory			2	2														
	Introduction to Artificial Intelligence			2	2														
	Subtotal	11	11	11	11		Subtotal	2	2	2	2		Subtotal						
Compulsory Courses	Basic Circuit Theory(I)(II)	3	3	3	3	Compulsory Courses	Electronics(I)(II)	3	3	3	3	Compulsory Courses	Special Topics Practice	1	1	1	1		
	Electronic Lab	2	2					Engineering Mathematics (I)	3	3					Ethics for Engineers	2	2		
	Computer Programming Lab			2	2			Digital Logic	3	3									
	electronic circuit Lab			2	2			Object Oriented Programming Lab	2	2									
								Analog Electronic Lab	2	2									
	Subtotal	5	5	7	7		Digital System Design			3	3								
							Digital Logic Lab			2	2								
							Subtotal	13	13	8	8		Subtotal	3	3	1	1		
Elective Courses						Elective Courses	Introduction to IC Package	3	3			Elective Courses	Digital IC Layout Practice	3	3				
							Basic Wheel Robot Practice	3	3					Cloud IC Testing Simulation Practice	3	3			
							Computer Aided Layout Lab	3	3					Semiconductor Devices	3	3			
							PLD Lab			3	3				Integrated Circuits Engineering	3	3		
							Introduction to IC Design			3	3				Single-Chip Microcontroller System Lab	3	3		
							Single-chip Micro-computer Practice			3	3				Mobile Communication Practice	3	3		
							Robot Assembly Control Practice			3	3				Hardware Description Language Practice	3	3		
							IC Package Practice			3	3				Electromagnetics	3	3		
							Engineering Mathematics (II)			3	3				Certification of Digital Electronics	3	3		
															JAVA Programming	3	3		
															Hardware Description Language Practice	3	3		
															Microcomputer interface Practice	3	3		
															AI Machine Learning Practice			3	3
															Semiconductor Process Technology			3	3
															IC Reliability Engineering			3	3
												FPGA Design Practice			3	3			
												Robot Application Practice			3	3			
												Automatic Senses Design Practice			3	3			
												Python Practice			3	3			
												Communication Systems			3	3			
												Communication Systems Practice			3	3			
												Integrated Circuit Testing Practice			3	3			

4th year(2027)					
	Course	1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
MUST Core Required Courses					
	Subtotal				
School Professional Required Courses					
	Subtotal				
Compulsory Courses	Off-Campus Practice Training	9	9		
	Subtotal	9	9	0	0
Elective Courses	Off-Campus Practice Training			9	9
	Memory Layout Design Practice	3	3		
	Advanced IC Package Technology	3	3		
	Integrated Circuit System Integration Test	3	3		
	IoT Application Practice	3	3		
	Wireless Technology Practice	3	3		
	RF circuit design	3	3		
	Digital Communication Practice	3	3		
	Industry Safety and Healthy	3	3		

Cr./hr.=Credit/hour

【Remarks】

1. Minimum graduation credits: 128 credits, including _40_ elective credits (at least _31_ credits for this major, the rest can be other departments).
2. The first, second, and third grade, students must take 16-30 credits each semester, and 9-30 credits each semester in the 4th grade.
3. Elective courses for listed are subject to change if necessary.
4. According to university regulations, students are required to meet the graduation requirement of basic proficiency and professional skills.
5. For off-campus internship courses, please follow the relevant implementation regulations.
6. Students having graduated from a foreign country, including Hong Kong and Macau, with the equivalent study of the sophomore level of the ROC's high school, or with a high school equivalent degree, who are studying for a bachelor's degree, the minimum graduation credits are 140, and the study period can be extended by 3 academic years.

明新科技大學電子系
課程教學小組

電子工程系 張承勛
主任

半導體學院 張合
院長

