

MUST Curriculum Planning for Undergraduate Students for Academic Years 2024-2027  
Department of Semiconductor and Electro-Optical Technology

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	Physical Education	2	2			MUST Core Required Courses	Physical Education	2	2			MUST Core Required Courses	Taiwanese Culture and Laws	2	2				
	<b>Subtotal</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>		<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>		<b>2</b>	<b>0</b>	<b>0</b>				
School Professional Required Courses	Technical English(I)	2	2			School Professional Required Courses	Technical English(II)	2	2			School Professional Required Courses	Technical English(III)	2	2				
	Applied Chinese(I)	2	2					Applied Chinese(II)	2	2									
	Calculus(I)	3	3					Calculus(II)	3	3									
								Ethics for Engineers	2	2									
<b>Subtotal</b>	<b>7</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>							
Compulsory Courses	Physics	3	3			Compulsory Courses	Electronics Circuits	3	3			Compulsory Courses	Introduction to Modern Science	3	3				
	Basic Circuit Theory	3	3					Electronics Lab(I)	3	3					Semiconductor Material and Device	3	3		
	Computer Data Processing	3	3					Geometrical Optics	3	3					Electronics Lab(II)	3	3		
	Introduction to Semiconductor and Optoelectric Industry	2	2					Lab of Property Practice(II)			9		9		Lab of Property Practice(III)			9	9
	Lab of Property Practice(I)			9	9														
<b>Subtotal</b>	<b>11</b>	<b>11</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>							
Elective Courses	Vacuum Technology	2	2			Elective Courses	Material Science and Engineering	3	3			Elective Courses	Solid State Lighting	3	3				
	Introduction to Bio-Medicine	2	2					Introduction to Computers and Programming	3	3					Certification of Solid Design CAD and License Counseling	3	3		
	Introduction to Bio-Medicine	2	2					CAD of Solid Design	3	3					Optical Thin Film and Coating Technology	3	3		
	Photoelectric Drawing and modeling	2	2					Introduction to Artificial Intelligence	3	3					Technology Management	3	3		
															Photonics applications	3	3		
												Thin Film Technology	3	3					
												Flat Panel Display	3	3					

4th year(2027)					
	Course	1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
MUST Core Required Courses					
	<b>Subtotal</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
School Professional Required Courses	Technical English(IV)	2	2		
	<b>Subtotal</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>
Compulsory Courses	Laser Engineering	3	3		
	Optoelectric Lab	3	3		
	Project of Semiconductor and Optoelectronics	2	2		
	Semiconductor Manufacturing Technology	3	3		
	Lab of Property Practice(IV)			9	9
<b>Subtotal</b>	<b>11</b>	<b>11</b>	<b>9</b>	<b>9</b>	
Elective Courses	Chromatics	3	3		
	Optoelectronic Device and Application	3	3		
	Solar Photovoltaic Technology	3	3		
	Computer-Assisted Design of Optical Thin Films	3	3		
	Computer-Aided Optical System Design	3	3		
	Digital Logic Design	3	3		
	Python Application	3	3		
Solar Photovoltaic Power Technology	3	3			

Cr./hr.=Credit/hour

Remarks:

1. Minimum graduation credits: 128 credits, including 26 elective credits (at least 17 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.

半導體系課程  
規劃委員 1

半導體與光電科技系  
系主任 陳炳茂



半導體學院  
院長 張合