

MUST Curriculum Planning for Undergraduate Students for Academic Years 2023-2026

Department of Semiconductor and Electro-Optical Technology

1st year(2023)					2nd year(2024)					3rd year(2025)							
	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	1	2			MUST Core Required Courses	Physical Education	1	2			MUST Core Required Courses	Taiwanese Culture and Laws	2	2		
	Subtotal	1	2	0	0		Subtotal	1	2	0	0		Subtotal	2	2	0	0
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				Applied Chinese(III)	2	2		
	Calculus(I)	3	3				Calculus(II)	3	3								
	Subtotal	7	7	0	0		Subtotal	9	9	0	0		Subtotal	4	4	0	0
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	2	3				Geometrical Optics	3	3				Electronics Lab(II)	3	3		
	Introduction to Semiconductor and Optoelectronic Industry	2	2				Lab of Property Practice(II)			9	9		Lab of Property Practice(II)			9	9
	Lab of Property Practice(I)			9	9												
	Subtotal	10	11	9	9		Subtotal	9	9	9	9		Subtotal	9	9	9	9
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(2026)					
	Course	1st semester		2nd semester	
		Cr.	hr.	Cr.	hr.
MUST Core Required Courses					
	Subtotal	0	0	0	0
School Professional Required Courses	Technical English(IV)	2	2		
	Applied Chinese(IV)	2	2		
	Subtotal	4	4	0	0
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
	Subtotal	11	11	9	9
Elective Courses	Chromatics	3	3		
	Optoelectronic Device and Application	3	3		
	Solar Photovoltaic Technology	3	3		
	Computer-Assisted Design of Optical Thin Film	3	3		
	Computer-Aided Optical System Design	3	3		
	Digital Logic Design	3	3		
	Python Application	3	3		

Cr./hr.=Credit/hour

Remarks:

- 1.Minimum credits required for graduation: 128 credits including 103 compulsory credits, and at least 25 elective credits (including the interdepartmental elective credits).
- 2.Inter-departmental elective credits are transferable. Professional elective course credits shall not be fewer than 13.
- 3.Students should take off-campus internship courses, Lab of Property Practice(I)(II)(III)(IV), and the relevant measures are handled in accordance with the Implementation of Off-campus Internship Teaching for Students in the Department of Semiconductor and Electro-Optical Technology.
- 4.The elective courses listed in the tables are subject to adaptation when necessary.