MUST Curriculum Planning for Undergraduate Students for Academic Years 2023-2026 Department of Semiconductor and Electro-Optical Technology

	Year	111 112			Year		112 113				Year		113				
	Course		3 2023	-	2023	1	Course	_	2024		2024		Course	FEB	2025	SEF	202
		Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.		V:0430300	Cr.	hr.	Cr.	
	Physical Education	1	2	1	2								Classified general Education- Taiwan Life and Law	2	2		
	Chinese Pinyin Pronunciation Practice	1	2										Classified general Education- Taiwanese Society	2	2		t
	Chinese Listening Practice	1	2										Classified general Education- Taiwanese Culture			2	T
MUST Core	Chinese Conversation Practice	1	2			MUST Core						MUST Core	Classified general Education- Taiwanese Art			2	
Required	Chinese Reading and Comprehension	1	2			Required						Required	Talwaitst Att				t
Courses	Chinese Writing Practice	1	2			Courses						Courses					+
	chinese tutoring	0	5		(t
	Chinese Literature			3	3												t
	Chinese Culture		-	3	3	in de la					-						\dagger
	Subtotal	6	17	7	8		Subtotal	0	0	0	0		Subtotal	4	4	4	t
School	Technical English(I)(II)	2	2	2	2	School				-		School	Technical English(III)(IV)	2	2	2	t
rofessional			1			Professional						Professional	Ethics for Engineers			2	t
Required Courses	Subtotal	2	2	2	2	Required Courses	Subtotal	0	0	0	0	Required Courses	Subtotal	2	2	4	t
	Physics	3	3				Lab of Property Practice(I)(II)	9	9	9	9		Introduction to Modern Science	3	3		t
	Applied Mathematics	2	2										Davisa	3	3		I
	Basic Circuit Theory	2	2										Electronics Lab(II)	3	3		ļ
ompulsory	Introduction to Optoelectric Industry Computer Data Processing	2	2	2	3	Compulsory					_	Compulsory	Optoelectric Lab			3	Ļ
Courses	Electronics Circuits		-	3	3	Courses		-		-		Courses	Laser Engineering	-	-	3	╀
	Electronics Lab(I)	_	1	3	3			-							-		+
	Geometrical Optics			3	3		CONTRACTOR OF THE CONTRACTOR O										t
	Subtotal	9	9	11	12		Subtotal	9	9	9	9		Subtotal	9	9	6	T
	Computer Aided Design Model and Engineering Drawings			2	2		Optoelectronics Technology (I)(II)	2	2	2	2		CAD of Solid Design	3	3		Γ
	Vacuum Technology			2	2		Material Science and Engineering	2	2				Solid State Lighting	3	3		t
	Material Science and Engineering			2	2		Introduction to Computers and Programming	2	2				Certification of Solid Design CAD and Product Design	3	3		Γ
	Introduction to Bio-Medical Engineering			2	2		Solid State Lighting	2	2				Technology Management	3	3		
	Engineering Applied Mathematics			2	2		Introduction to Artificial Intelligence	2	2				Photonics applications	3	3		
	Introduction to Computers and Programming			2	2		Micro-computer Application	3	3				Thin Film Technology	3	3		
							Mobile Computing Practice	3	3				Semiconductor Manufacturing Equipement	3	3		
							App Programming	3	3				Certification of Solid Design CAD	3	3		
							Practical Vacuum Technology	3	3				Semiconductor Packaging Process and Equipment	3	3		Γ
							Surface Engineering and AI Assistance	3	3				Nanomaterials	3	3		Ī
Elective						Elective	Introduction of Flat Panel Displays	3	3			Elective	Computer-Aided Optical System Design	3	3		
Courses						Courses	Engineering statistics			2	2	Courses	Optical Thin Film and Coating Technology			3	Γ
							Chromatics			2	2		Data Science			3	
							CAD of Solid Design			2	2		Memory Device Technology			3	Ĺ
													Computer-Assisted lighting system design			3	I
													Optical Factory			3	ľ
													Silicon Nano-device Detection and			3	ſ
													Analysis Chromatics		-	3	H
													Optoelectronic Device and			3	t
				-						-			Application Optoelectronic Semiconductor				+
													Manufacturing Technology			3	1
													Digital Logic Design			3	L
						\dashv		-		Python Application		_	3	\vdash			
			-					-	-				Solar Photovoltaic Technology Machine Learning	_	\dashv	3	+
											-		Smart Industry and Manufacturing			3	+

	1	14	115			
	Course	FEB	2026	SEP 2026		
	Course	Cr.	hr.	Cr.	hr	
MUST Core Required						
Courses	Subtotal	- 0	0	0	0	
School Professional Required						
Courses	Subtotal	0	0	0	0	
Compulsory Courses						
Courses	Subtotal	0	0	0	0	
	Lab of Property Practice(III)(IV)	9	32	9	32	
	Project of Optoelectronics	3	3			
	Solar Photovoltaic Technology Optociectronic Detection	3	3		_	
	Chromatics	3	3			
	Artificial Intelligence-Deep Learning	3	3			
	Labview Programming Design	3	3			
Elective	Python Program Application	3	3			
Courses	Machine Learning with Python	3	3			
	Generative AI and Applications	3	3			
	spectral analysis	3	3			
	Project of Optoelectronics			3	3	
	Creative Design in Optoelectronics			3	3	
	Nano Bio-Photonics			3	3	
	Technology of Organic Light- Emitting Diode Display			3	3	

Cr./hr.=Credit/hour

Remarks:

- 1. Minimum credits required for graduation: 128 credits including 84 compulsory credits,
- and at least 44 elective credits (including the interdepartmental elective credits). 2. Inter-departmental elective credits are transferable. Professional elective course credits shall not be fewer than 32.
- 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. Off-campus practice courses: Lab of Property Practice (I)(II)(III)(IV), 1 credit requires no more than 80 hours
- The actual internship hours for Lab of Property Practice(I)(II) are 36 to 40 hours per week, and the actual internship hours for Lab of Property Practice (III) and (IV) are 32 to 40 hours per week.
- 5. The elective courses listed in the tables are subejct to adaptation when necessary.







