MUST Curriculum Planning for Undergraduate Students of Academic Year 2026-2029,
Department of Semiconductor and Electro-Optical Technology

	Year	114		115			Year	115		116			Year	116		117	
	Course	FEB 2026		Sep2026			Course	FEB 2027		SEP 2027			Course	FEB 2028		SEP 2028	
		Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.
MUST Core Required Courses	Physical Education	2	2	2	2	MUST Core Required Courses						MUST Core Required Courses	Technical English(III)(IV)	2	2	2	2
	Technical English(I)(II)	2	2	2	2								Taiwanese Society	2	2		
	chinese tutoring	0	5										Taiwanese Art			2	2
	Chinese Pinyin Pronunciation Practice	1	2														
	Chinese Listening Practice	1	2														
	Chinese Conversation Practice	1	2														
	Chinese Reading and Comprehension	1	2														
	Chinese Writing Practice	1	2														
	Chinese Literature			3	3												
	Chinese Culture			3	3												
	Taiwanese Culture			2	2												
	Taiwan Life and Law			2	2												
	Subtotal	**9**	**19**	**14**	**14**		**Subtotal**	**0**	**0**	**0**	**0**		**Subtotal**	**4**	**4**	**4**	**4**
School Professional Required Courses						School Professional Required Courses						School Professional Required Courses	Ethics for Engineers			2	2
	Subtotal	**0**	**0**	**0**	**0**		**Subtotal**	**0**	**0**	**0**	**0**		**Subtotal**	**0**	**0**	**2**	**2**
compulsory courses	Physics	3	3			compulsory courses	Lab of Property Practice	9	32	9	32	compulsory courses	Introduction to Modern Science	3	3		
	Applied Mathematics	2	2										Semiconductor Material and Device	3	3		
	Basic Circuit Theory	2	2										Electronics Lab(II)	3	3		
	Introduction to Semiconductor and Photonics	2	2										Laser Engineering			3	3
	Computer Data Processing			3	3								Optoelectric Lab			3	3
	Electronics Circuits			3	3								Semiconductor Manufacturing			3	3
	Electronics Lab(I)			3	3												
	Geometrical Optics			3	3												
	Subtotal	**9**	**9**	**12**	**12**		**Subtotal**	**9**	**32**	**9**	**32**		**Subtotal**	**9**	**9**	**9**	**9**
Elective Courses	Vacuum Technology			2	2	Elective Courses	Material Science and Engineering	2	2			Elective Courses	Certification of Solid Design CAD and License Counseling	3	3		
	Introduction to Bio-Medical Engineering			2	2		Introduction to Computers and Programming	2	2				Optical Thin Film and Coating Technology	3	3		
	Engineering Applied Mathematics			2	2		Solid State Lighting	2	2				Technology Management	3	3		
	Introduction and Application of Artificial Intelligence			3	3		Thin Film Technology	2	2				Photonics applications	3	3		
	Introduction to Semiconductor Materials Industry			3	3		Vision optics	2	2				Thin Film Technology	3	3		
	Material Science and Engineering			2	2		Micro-computer Application	3	3				Semiconductor Inspection 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				Nanomaterials	3	3		
							Surface Engineering and AI Assistance	3	3				Computer-Aided Optical System Design	3	3		
							Introduction of Flat Panel Displays	3	3				Semiconductor Packaging Process and Equipment	3	3		
							CAD of Solid Design			2	2		Data Science			3	3
							Introduction to Artificial Intelligence			2	2		Optoelectronic Device and Application			3	3
							Engineering statistics			2	2		Solar Photovoltaic Technology			3	3
							Chromatics			2	2		Digital Logic Design			3	3
							Light - Emitting - Diode Technology			2	2		Python Application			3	3
							Measurement of LEDs			2	2		Memory Device Technolegy			3	3
							Solar Photovoltaic Technology			2	2		Semiconductor Lab			3	3
													Semiconductor Manufacturing Equipement			3	3
													CAD of Solid Certification			3	3
													Semiconductor Materials and Applications			3	3
													Photonic Biomedical Engineering			3	3
													Computer-Assisted lighting system design			3	3
													Optical Factory			3	3
													Silicon Nano-device Detection and Analysis			3	3
													Certification of Solid Design CAD			3	3
													Machine Learning			3	3
													Smart Industry and Manufacturing			3	3

	Year	117		118	
	Course	FEB 2029		SEP 2029	
		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	Lab of Property Practice(III)(IV)	9	32	9	32
	Project of Optoelectronics	3	3	3	3
	Solar Photovoltaic Technology	3	3		
	Optoelectronic Detection Engineering	3	3		
	Chromatics	3	3		
	Artificial Intelligence-Deep Learning	3	3		
	Labview Programming Design	3	3		
	Python Program Application	3	3		
	Machine Learning with Python	3	3		
	Generative AI and Applications	3	3		
	spectral analysis	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_90_ compulsory credits, and at least _38_ elective credits(including the interdepartmental elective credits).
2.For off-campus internship courses, please follow the relevant implementation regulations.
3. 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.

4.The elective courses listed in the tables are subejct to adaptation when necessary.

5.This form created in _02.19 2025_.