

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

1st year(2024)					2nd year(2025)					3rd year(2026)				
	Course	1st semester		2 nd semester		Course	1st semester		2 nd semester		Course	1st semester		2 nd semester
		Cr.	hr.				Cr.	hr.				Cr.	hr.	
MUST Core Required Courses	Physical Education	2	2	2	2						Taiwanese Society	2	2	
	Chinese tutoring	0	5								Taiwanese Art			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									
School Professional Required Courses	Taiwan Life and Law			2	2									
	Subtotal	7	17	12	12									
	Technical English(I)(II)	2	2	2	2									
	Subtotal	2	2	2	2									
Compulsory Courses	Physics	3	3											
	Applied Mathematics	2	2											
	Basic Circuit Theory	2	2											
	Introduction to Optoelectric Industry	2	2											
	Computer Data Processing			3	3									
	Electronics Circuits			3	3									
	Electronics Lab(I)			3	3									
	Geometrical Optics			3	3									
	Subtotal	9	9	12	12									
Elective Courses	Vacuum Technology			2	2									
	Introduction to Bio-Medical Engineering			2	2									
	Engineering Applied Mathematics			2	2									
	Introduction and Application of Artificial Intelligence			3	3									
	Introduction to Semiconductor Materials Industry			3	3									
	Material Science and Engineering			2	2									
Elective Courses	Material Science and Engineering	2	2											
	Introduction to Computers and Programming	2	2											
	Solid State Lighting	2	2											
	Thin Film Technology	2	2											
	Vision optics	2	2											
	Measurement of LEDs	2	2											
	Micro-computer Application	3	3											
	Mobile Computing Practice	3	3											
	App Programming	3	3											
	Practical Vacuum Technology	3	3											
Elective Courses	Surface Engineering and AI Assistance	3	3											
	Introduction of Flat Panel Displays	3	3											
	CAD of Solid Design			2	2									
	Introduction to Artificial Intelligence			2	2									
	Engineering statistics			2	2									
	Chromatics			2	2									
	Solar Photovoltaic Technology			2	2									
Elective Courses	Certification of Solid Design CAD and License Counseling	3	3											
	Optical Thin Film and Coating Technology	3	3											
	Technology Management	3	3											
	Photonics applications	3	3											
	Thin Film Technology	3	3											
	Semiconductor Inspection technology	3	3											
	Semiconductor manufacturing Equipment	2	2											
	Certification of Solid Design CAD	3	3											
	Nanomaterials	3	3											
	Computer-Aided Optical System Design	3	3											
Elective Courses	Semiconductor Packaging Process and Equipment	3	3											
	Data Science			3	3									
	Chromatics			3	3									
	Optoelectronic Device and Application			3	3									
	Solar Photovoltaic Technology			3	3									
	Digital Logic Design			3	3									
	Python Application			3	3									
	Memory Device Technology			3	3									
	Semiconductor Lab			3	3									
	Semiconductor manufacturing Equipment			3	3									
Elective Courses	CAD of Solid Certification			3	3									
	Semiconductor materials and Analysis			3	3									
	Photonic Biomedical Engineering			3	3									
	Computer-assisted lighting system			3	3									
	Optical Factory			3	3									
	Silicon wafer device Detection and Analysis			3	3									
	Certification of Solid Design CAD			3	3									
	Machine Learning			3	3									
	Smart Industry and Manufacturing			3	3									

4th year(2027)				
	Course	1st semester		2 nd semester
		Cr.	hr.	
MUST Core Required Courses				
	Subtotal	0	0	0
School Professional Required Courses				
	Subtotal	0	0	0
Compulsory Courses				
	Subtotal	0	0	0
Elective Courses	Lab of Property Practice(III)(IV)	9	32	9
	Project of Optoelectronics	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
	Nano Bio-Photonics			3
	Technology of Organic Light-Emitting Diode Display			3

Cr./hr.=Credit/hour

【Remarks】

- 1.Minimum graduation credits: 128 credits, including 38 elective credits (at least 29 credits for this major,
- 2.Elective courses for listed are subject to change if necessary.
- 3.According to university regulations, students are required to meet the graduation requirement of basic proficiency and professional skills.
- 4.For off-campus internship courses, please follow the relevant implementation regulations.
- 5.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.

