

# 113學年度日間部國際產學合作專班(秋季班)-半導體與光電科技系選修課程變動表

113學年度科目	第__學年/學期	學分/時數	114學年度科目	第__學年/學期	學分/時數	變動類別(停開、新增、更改課程名稱、學分)	修訂及重補修原則說明
			固態照明	二下	2/2	新增	
			奈米科技應用	二下	3/3	新增	
			真空技術實務	二下	3/3	新增	
			半導體製程技術	二下	3/3	新增	
			光電實驗	二下	3/3	新增	
			雷射工程	二下	3/3	新增	

系課務委員簽章：



系主任簽章：



院長簽章：





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		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	2	2	MUST Core Required Courses					MUST Core Required Courses	Taiwanese Society	2	2	2	2			
	chinese tutoring	0	5																
	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	7	17	12	12		Subtotal	0	0	0	0		Subtotal	2	2	2	2		
School Professional Required Courses	Technical English(I)(II)	2	2	2	2	School Professional Required Courses					School Professional Required Courses	Technical English(III)(IV)	2	2	2	2			
	Subtotal	2	2	2	2		Subtotal	0	0	0	0		Subtotal	2	2	4	4		
Compulsory Courses	Physics	3	3			Compulsory Courses	Lab of Property Practice	9	36	9	36	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 Optoelectric Industry	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	36		9	36		Subtotal	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			Thin Film Technology	2	2					Technology Management	3	3		
	Introduction and Application of Artificial Intelligence			3	3			Vision optics	2	2					Photonics applications	3	3		
	Introduction to Semiconductor Materials Industry			3	3			Micro-computer Application	3	3					Thin Film Technology	3	3		
	Material Science and Engineering			2	2			Mobile Computing Practice	3	3					Semiconductor Inspection technology	3	3		
								App Programming	3	3					Semiconductor Manufacturing	2	2		
								Practical Vacuum Technology	3	3					Certification of Solid Design CAD	3	3		
								Surface Engineering and AI Assistance	3	3					Nanomaterials	3	3		
								Introduction of Flat Panel Displays	3	3					Data Science	3	3		
								CAD of Solid Design			2		2		Chromatics			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		Computer-Assisted Design of Optical			3	3
								Solar Photovoltaic Technology			2		2		Computer-Assisted Design of Optical			3	3
								Measurement of LEDs			2		2		Digital Logic Design			3	3
								Solid State Lighting			2		2		Python Application			3	3
								Applications of Nanotechnology			3		3		Memory Device Technology			3	3
								Practical Vacuum Technology			3		3		Semiconductor Lab			3	3
								Semiconductor Manufacturing Technology			3		3		Semiconductor Packaging Process and Equipment			3	3
								Optoelectric Lab			3		3		Semiconductor Manufacturing			3	3
								Laser Engineering			3		3		CAD of Solid Certification			3	3
								Certification of Solid Design CAD			3		3		Semiconductor Materials and Applications			3	3
															Photonics Biomedical Engineering			3	3
															Computer-Assisted Lighting System			3	3
															Optical Factory			3	3
															Silicon Nano-Device Detection and			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		2nd semester	
		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	40	9	40
	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			3	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.

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 陳啟文