MUST Curriculum Planning for Undergraduate Students for Academic Years 2024-2027,

	1 (2001)				Dep	artment of	Semiconductor and I	cieci	J-01.	puc	al I	echnology					Commence of	
1st year(2024)						2nd year(2025)					3rd year(2026)							
	Course	1	st ester	2 <sup>nd</sup> semester			Course	1st semester		2 <sup>nd</sup> semester			Course		lst semester		2 <sup>nd</sup> semester	
		Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.		174.4 (1997)	Cr.	hr.	Cr.	h	
Required Courses  School Professional Required Courses	Classified general Education	2	2	2	2	MUST Core	Classified general Education	2	2	2	2	MICTO					T	
	Classified general Education	2	2	2	2	Required						MUST Core					T	
	Physical Education	2	2	2	2	Courses						Required						
Courses	Subtotal	6	6	6	6	Courses	Subtotal	2	2	2	2	Courses	Subtotal					
	Technical English(IXII)	2	2	2	2		Applied English(III)(IV)	2	2	2	2							
School Professional Required Courses	Applied Chinese(I)(II)	2	2	2	2													
School	Calculus(I)(II)	3	3	3	3	School						School						
Professional	Physics and Physics Laboratory	2	2			Professional						Professional						
	Chemistry and Laboratory	2	2			Required						Required						
Courses	Introduction to Programming	2	2			Courses						Courses						
	Introduction to Artificial Intelligence			2	2	di e	di di											
	Subtotal	1 13	13	9	9		Subtotal	2	2	2	2		Subtotal	11000	Carlos	- Julia	123	
	Vector Analysis	3	3				Electromagnetic(I)(II)	2	2	2	2		Special Topics Practice	1	1	1	1	
Compulsory Courses	Basic Electricity and Electricity Experiment			2	2		Engineering Mathematics(I)(II)	3	3	3	3		Optoelectric Lab(II)	2	2			
	Introduction to Semiconductors and Optoelectronics			2	2		Applied Electronics	2	2				Semiconductor Manufacturing Technology	3	3			
	Basic Electronics			2	2		Electronics Lab(II)	3	3				Ethics for Engineers			2	2	
	Electronics Lab(I)			3	3	Compulsory	Introduction to Modern Physics	3	3			Compulsory Courses	Laser Engineering			2	2	
	Introduction to Materials			2	2	Courses	Mechanism of Optoelectronic System	2	2				Semiconductor Lab			3	3	
							Geometrical Optics			2	2							
					$\perp$		Optoelectric Lab(1)			2	2							
							Semiconductor Materials and Devices			3	3							
	Subtotal	3	3	11	11		Subtotal	15	15	12	12		Subtotal	6	6	8	8	
	Introduction to Semiconductor and Optoelectric Industry	1	1				Programming Language	2	2				Certification of Solid Design CAD and License Counseling	2	2			
	Basic Circuit Theory	2	2						Computer-aided Optical System Design	2	2							
	Photoelectric Drawing and modeling			2	2		CAD of Solid Design			2	2	1	Graphical Programming Language Design	2	2			
	Electronic Circuit and License Counseling			2	2		Material Science and Engineering			2	2		Practice of Digital Circuits	2	2			
							Introduction to Bio-Medicine			2	2		Green Energy Photoelectric Laboratory	2	2			
			_				Integrated-Circuits Engineering			2	2		Thin Film Technology		2			
			-		_						_		Solid State Lighting and License Counseling	2	2		-	
			-	_									Wave Optics	2	2			
Elective			-			Elective						Elective	Optoelectronic Material & Device Physics	2	2		1	
Courses					-	Courses		-	_			Courses	Materials Analysis			3	_	
		-			-			-	-				Computer-aided Illumination System Design			2	_	
					-			-	-				Applied Circuits in Optoelectronics			2	-	
0 1112					$\vdash$					-			Flat Panel Display		-	3	-	
		-		-	-			-		-	-		Optoelectronic Device and Application			2	-	
		-						-	-		-		Chromatics		_	2	-	
								-		-			Optical Thin Film and Coating Technology  Optical Straightful Programmer Control of the Control	-	-	2	-	
		_						-					Optoelectronic Detection Engineering Introduction to Optical				_	
- 4						6							Microelectromechanical System			2	3	
													Semiconductor biomedical chip			2	2	
													Solar Photovoltaic Technology			3	3	

		1st 2 <sup>nd</sup>						
	Course		ster	semester				
		Cr.	hr.	Cr.	hr			
MUST Core								
Required								
Courses	Subtotal			9 2	1			
School								
Professional								
Required								
Courses	Subtotal							
	Off-Campus Practice Training	9	9	MIN.OURIC				
Compulsory				- 72				
Courses								
		-						
	Design and Operation of	9	9	0	0			
	TFT-LCD Panels	3	3					
	Creative Design in Optoelectronics	3	3					
	Liquid Crystal Materials and Optic	3	3					
	Computer-Assisted Design of Optical Thin Films	3	3					
	The Measurement of Semiconductors	3	3					
	Micro Opto Electro Mechanical Device and System	3	3					
Elective	Off-Campus Practice Training			9	9			
Courses	Sloar-Cell-Driven LED Display			3	3			
	Technology Management			3	3			
	Semiconductor Material Analysis			3	3			
	Nano Bio-photonics			3	3			
	Technology of Organic Light-Emitting Diode display			3	3			
	Projection Display Technology			3	3			

## Cr./hr.=Credit/hour

## [Remarks]

- 1. Minimum graduation credits: 128 credits, including 22 elective credits (at least 13 credits for this major, the rest can be other departments).
- 2. The first, second, and third grade, students must take 16-30 credits each semester, and 9-30 credits each semester in the 4th grade.

  3. Elective courses for listed are subject to change if necessary.

  4. According to university regulations, students are required to meet the graduation

- 4. According to university regulations, students are required to meet the graduation requirement of basic proficiency and professional skills.

  5. For off-campus internship courses, please follow the relevant implementation regulations.

  6. Students having graduated from a foreign country, including Hong Kong and Macau, with the equivalent study of the sophomore level of the ROC's high school, or with a high school equivalent degree, who are studying for a bachelor's degree, the minimum graduation credits are 140, and the study period can be extended by 3 academic years.





