	MUS	ST C	Curr	icul	um	Planning	for Undergraduate Stud	lents	for	Aca	ıden	nic Year	s 2023-2026				
Department of Semiconductor and Electro-Optical Technolo											nnology	<u>Y</u>					
1st year(2023)						2nd year(2024)				3rd year(2025)							
	Course		st iester	2nd semester			Course	1 sem	1st 2nd semester semester			Course		1 st semester		2nd semester	
	course	Cr.	hr.	Cr.	hr.		Course		hr.	Cr.	hr.		couse	Cr.	hr.	Cr.	hr.
	Physical Education	1	2	1	2		Classified general Education	2	2	2	2						
MUST Core	Classified general Education	2	2	2	2	MUST Core	Classified general Education	2	2			MUST Core					
Courses	Classified general Education	2	2	2	2	Courses						Courses					
	Subtotal	5	6	5	6		Subtotal	4	4	2	2		Subtotal	0	0	0	0
School Professional	Technical English(I)(II)	2	2	2	2	School Professional Paguirad	Technical English(Ⅲ)(IV)	2	2	2	2		Ethics for Engineers			2	2
	Applied Chinese(I)(II)	2	2	2	2												
	Calculus(I)(II)	3	3	3	3												
	Chemistry and Laboratory	2	3									School Professional Required Courses					
	Physics and Physics Laboratory	2	3														
Courses	Introduction to Computers and Programming	2	2			Courses										1	
	Basic Electricity and Electricity Experiment			2	3												
	Introduction to Artificial Intelligence			2	2			1									
	Subtotal	13	15	11	12		Subtotal	2	2	2	2		Subtotal	0	0	2	2
	Vector Analysis	3	3				Electromagnetic(I)(II)	3	3	2	2		Project of Optoelectronics-capstone	1	1	1	1
	Optics			2	2		Engineering Mathematics(I)(II)	3	3	3	3		Optoelectric Lab(II)	2	3		
Compulsory Courses	Basic Electronics			2	2		Applied Electronics	2	2				Semiconductor Manufacturing Technology	3	3		
	Electronics Lab(I)			1	3	Compulsory Courses	Electronics Lab(II)	1	3			Compulsory Courses	Laser Engineering			2	2
	Introduction to Materials			2	2		Introduction to Modern Physics	3	3				Semiconductor Lab			2	3
							Mechanism of Optoelectronic System	2	2								
							Geometrical Optics			2	2						
							Optoelectric Lab(I)			2	3						
							Semiconductor Materials and Devices			3	3						
	Subtotal	3	3	7	9		Subtotal	14	16	12	13		Subtotal	6	7	5	6
	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				Vacuum Technology	2	2				Computer-aided Optical System Design	2	2		
Elective Courses	Photoelectric Drawing and modeling			2	2		CAD of Solid Design			2	2		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		
													Thin Film Technology	2	2		
												Elective Courses	Solid State Lighting and License	2	2		
													Wave Optics	2	2		
						Elective							Optoelectronic Material & Device Physics	2	2		
						Courses							Materials Analysis			3	3
													Computer-aided inumination System			2	2
													Applied Circuits in Optoelectronics			2	2
													Flat Panel Display			3	3
													Optoelectronic Device and Application			2	2
													Chromatics			2	2
				L									Optical Thin Film and Coating Technology		Щ	2	2
													Optoelectronic Detection Engineering		\square	2	2
													Introduction to Optical Microelectromechanical System			2	2

	4th year(2026)					
	Course		st ester	2nd semester		
	Course	Cr.	hr.	Cr.	hr.	
MUST Core						
Required						
Courses	Subtotal	0	0	0	0	
School						
Required						
Courses	Subtotal	0	0	0	0	
	Off-campus internship	9	9			
Compulsory						
Courses						
	Subtotal	9	9	0	0	
Elective Courses	Design and Operation of TFT-LCD Panels	3	3			
	Creative Design in Optoelectronics	3	3			
	Liquid Crystal Materials and Optic	3	3			
	Solar Photovoltaic Technology	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			
	Off-campus internship			9	9	
	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:

Remarks:

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

- requirement of basic language proficiency and professional skills.
- 2.Students shall take 4 hours Service Education courses (0 credits) in the first and second semester

of the first academic year.

3.In the first three years, students must take 16-30 credits per semester, and 9-30 credits per

semester in the 4th year.

4. Minimum graduation credits: 128 credits; Compulsory credits: _102__ credits.Elective credits: _26_ credits (elective credits include inter-departmental elective credits); the elective credits for majors

in the department must not be lower than _14_ credits.

5.Students having graduated from a foreign country, including Hong Kong and Macau, with the

equivalent of the second year of high school study of the ROC's high school sophomore level, or

with a high school equivalent degree, need to take 140 credits including 38 compulsory credits, and

at least 26elective credits (including inter-departmental elective credits),

while elective professional course credits shall not be fewer than

The program can be extended up to 3 academic years.

6.Students should take off-campus internship courses, 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.

7. Elective courses are subject to change if necessary.