MUST Curriculum Guide for Undergraduate Students for Academic Years 2020-2023, Department of Electro-Optical Engineering

Year 1 (2020)						Year II (2021)						Year III (2022)							
1st 2nd semester semester						-		1	st ester	semi	nd					1st 2nd semester semes			
	Course title						Course title	Cr.		Cr.		L	Course title	Cr.	hr.		hr.		
	OPhysical Education	1	2	1	2		OPhysical Education	1	2			L	General Education Courses	2	2	2	2		
	/(All-out Defense Education Military Training(I)(II)	0	2	0	1		Classified General Education	2	2	2	2	L	OLaw, Politics and Society	2	2				
	Chinese Reading and Expressions (I)(II)	2	2	2	2		The Theory of History and Civilization			2	2	L	©Ethics for Engineers			1	1		
	©English (1)(II)	2	2	2	2		Technical English(I)(II)	2	2	2	2		©English Proficiency Training			1	1		
C	△Physics(1)(II)	2	2	2	2	С	OChinese Reading and Expressions (III)			1	1	C		2	2				
	△Chemistry and Laboratory	2	3					3	3	2	2		₩Optoelectronic Material & Device Physics	2	2		L		
	△Calculus(1)(II)	3	3	3	3		#Engineering Mathematics(I)(II)	3	3	3	3		※Optoelectric Lab(II)(III)	2	3	2	3		
	△Physics Laboratory(1)(II)	1	2	1	2	Г		3	3							2	2		
	△Introduction to programming	2	3				#Electronics Lab(II)	1	3			Γ	₩Project of Optoelectronics-capstone			1	2		
	Antroduction and application of artificial intelligence	2	2			Г		2	2										
	*Optics			2	2		#Introduction to Modern Physics	3	3										
	**Basic Electronics			3	3		#Geometrical Optics			2	2	Γ					Ĺ		
				3	3		∰Optoelectric Lab(I)			2	3	Γ							
				1	3														
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	Summation	17	23	20	25		Summation	20	23	16	17		Summation	10	11	9	11		
	Introduction to Optoelectric Industry	2	2			Г	Programming Language	2	2				Certification of Solid Design CAD and License Counseling	2	2				
	Basic Circuit Theory	2	2				Vacuum Technology	2	2			Γ	Computer-aided Optical System Design	2	2				
	Photoelectric Drawing and modeling			2	2		■Certification of Solid Design CAD			2	2	Γ	Graphical Programming Language Design	2	2				
	Electronic Circuit and License Counseling			2	2		CAD of Solid Design			2	2	Г	■Practice of Digital Circuits	2	2				
E	Electronic circuit and Electric counseling						Material Science and Engineering			2	2	Г	Green Energy Photoelectric Laboratory	2	2				
							Introduction to Bio-Medicine			2	2	Γ	Optical Fiber Engineering	2	2				
E						Е		T				E	Thin Film Technology	2	2		Г		
-			T			lt							Solid State Lighting and License Counseling	2	2				
						lh		\top				T	Computer-aided Illumination System Design			2	2		
		H	r			lt						T	■ Applied Circuits in Optoelectronics			2	2		
			1	-	H	1		1			\sqcap	r	Flat Panel Display	T		3	3		
					\Box			T			П	T	Optoelectronic Device and Application		Г	2	2		
				F		lŀ		T			\sqcap	r	Chromatics			2	2		
						lŀ		\vdash			П	r	Optoelectronic Semiconductor Manufacturing Technology	1		2	2		
-			+	-				1			\sqcap	1	Semiconductor Manufacturing Technology			2	2		
_		-	\vdash	+	H	ᅡ		+	1		\vdash	1	Optical Thin Film and Coating Technology		Т	2	2		
					\vdash	lŀ		T	1		Н	1	Common Course of Kernel Career Competencies			3	3		
		-	-	+	\vdash			+	+	-	\vdash	1	Optoelectronic Detection Engineering	-	1	2	2		
			1				I .						Optoblectronic Detection Engineering						

	Course title		1st semester		2nd semester	
	Course title	Cr.	hr.	Cr.	hr.	
С	#Project of Optoelectronics	1	2	1	2	
_	Summation	1	2	1	2	
	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			
E	Micro Opto Electro Mechanical Device and System	3	3			
	Lab of Property Practice(I) (II)	9	9	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	

Item	Cr.	hr.
General Education Courses	30	33
△ Basic Professional Courses (required by school)	18	22
₩Required Professional Courses	46	56
Elective Professional Courses	34	34
★All-out Defense Education Military Training.	0	3
Total	128	148

C/E = Compulsory / Elective

Cr./hr.=Credit/Hour





- The university requires students to achieve basic competencies and meet graduation requirements
- 2. Students are required to take 4 hours of Service Education courses (0 credit) during their first 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 credits required for graduation are 128 credits (94 required credits and at least 34 elective credits).

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 8. Those that do not choose the practicum are not allowed to take any of the 3 courses.

 9. 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 94 compulsory credits, and at least 46 elective credits (including inter-departmental elective credits), while elective professional course credits shall not be fewer than 34. The program can be extended up to 3 acade 10. The elective courses listed in the tables are subejet to adaptation when necessary.



