## Department of Electronic Engineering

Curriculum Requirements for Enrollees in the Academic Year 111 (Fall 2022)

Prog	gram	Four-year technical college program of the Day Division										
Gro	oup	None  Remules Class										
Class	Type	Regular Class										
Special Program		None										
Curriculum Committee		Department Curriculum 111.05.03 \ 114.02.24 \ 114.04.15										
		College Curriculum 111.05.20 \ 114.03.03 \ 114.05.16										
		University Curriculum 111.06.06 \ 114.03.10 \ 114.06.09										
		Academic Affairs 111.06.06 \ 114.03.10 \ 114.06.09										
Graduation Credits /Study Duration		At least 128 credits required (normally 4 years).										
Credit Load per Semester		Students in Grades 1 and 2 must take no fewer than 16 credits and no more than 28 credits per semester. Students in Grades 3 and 4 must take no fewer than 9 credits and no more than 25 credits per semester.										
Required an	nd Elective	Credits	Subject Category			Credits						
			General Education			16 Credits						
Requ	ired	88 Credits	Major Required			72 Credits						
			College Major			0 Credits						
D.I.		40.0 111	General Education			8 Credits						
Elec	tive	40 Credits	Major Elective			22 Credits						
Other Reg	gulations											
Rema	arks	"Computer Course" mean	ns com	puter	access is 1	required (c	omputer and internet u	sage f	ee).			
	First Se	emester, First Year				Second Semester, First Year						
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes			
General Education	403001	Chinese(1)	2/2		General Education	403002	Chinese(2)	2/2				
General Education	400E00	English(I)	2/2		General Education	400F00	English(II)	2/2				
General Education	403088	Community Service & Learning(1)	0/1		General Education	403031	Community Service & Learning(2)	0/2				
General Education	400A00	physical education (1)	1/2		General Education	400B00	physical education (2)	1/2				
General Education	300A00		2/2		General Education	300B00	General Courses (II)	2/2				
Major Required	403A03	Physics(1)	3/3		Major Required	403A04	Physics(2)	3/3				
Major Required	403A05	Physics Lab.	1/2		Major Required	403A07	Calculus(2)	3/3				
Major Required	403A06	Calculus(1)	3/3		Major Required	403026	Introduction to Computer	2/3	Compu ter Cours e			
Major Required	403A20	Introduction to Electronic Engineering	1/1		Major Required	403A08	Electrical Circuits	3/3	J			
Major Required	403C10	Introduction of Intelligent Control	2/2		Major Required	403B50	Career Counseling	2/2				
Major Required	403C11	Electronic Lab	2/3		Major Required	403C12	Practice of Intelligent Control Application	2/2				
Major Required	403042	Labor education (1)	0/1		Major Required	403043	Labor education (2)	0/1				

19 Credits, 24 Hours					22 Credits, 27 Hours					
	First S	emester, Second Year	Second Semester, Second Year							
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes	
General Education	400G00	English(III)	2/2		General Education	400Н00	English (IV)	2/2		
General Education	400C00	Physical Education (III)	1/2		General Education	400D00	physical education (4)	1/2		
General Education	300C00		2/2		General Education	300D00	General Courses (IV)	2/2		
Major Required	403017	Practical Chinese	2/2		Major Required	403049	Human Rights and Legal Education	2/2		
Major Required	403048	Contemporary Taiwan and Modern World	2/2		Major Required	403A10	Electronic Circuits(2)	3/3		
Major Required	403A09	Electronic Circuits(1)	3/3		Major Required	403A16	Digital System Design	3/3		
Major Required	403A22	Embedded System Overview	2/3		Major Required	403A71	Semiconductor Component Physics	3/3		
Major Required	403B51	Engineering Mathematics	3/3		Major Required	403C14	Introduction to Computer Network	2/3	Compu ter Cours e	
Major Required	403B53	Philosophy Ethics	2/2		Major Required	403C15	Program Design	2/3	Compu ter Cours e	
Major Required	403C13	Integrated Circuit Logic Design and Practice	3/4		Major Elective	403P48	The principle and applications of sensor and actuator	3/3	C	
		11400100			Major Elective	403P49	Fundamentals of optics	3/3		
					Major Elective	403P50	Introduction to Smart Manufacturing	3/3		
					Major Elective	403P51	Embedded System Interface Design	2/3		
		Credits, 25 Hours					credits, 35 Hours			
	I	Semester, Third Year	Credits	N	Second Semester, Third Year  Course Course Name Credits Notes					
Course	Course	Course Name	Hours	Notes	Course	Course	Course Name	/ Hours	Notes	
Major Required	403C16	Introduction to Artificial Intelligence	2/3		Major Elective	403P12	Solar Cell Measurement Practices	2/3		
Major Required	403J02	Introduction to Electromagnetics	3/3		Major Elective	403P14	Optoelectronic Devices	3/3		
Major Required	403K06	Wafer Process Technology	3/3		Major Elective	403P54	Programmable Logic Controller Principle and Application	3/3		
Major Required	403K07	Technology of Semiconductor Packing	3/3		Major Elective	403P55	Deep Learning Practice	3/3		
Major Elective	403P52	Electronic Material	3/3		Major Elective	403P56	Mobile Device Application Practice	2/3		
Major Elective	403P53	Air Pressure Principle and Application	3/3		Major Elective	403P92	Generative AI: Text and Image Synthesis Principles and Practice	3/3		
Major Elective	403Q16	Optoelectronic Display Devices	3/3		Major Elective	403Q02	Semiconductor Devices and Process Simulation Lab.	2/3	Compu ter Cours e	
Major Elective	403Q34	Solar Cell Overview	3/3		Major Elective	403W05	Antenna Design Pratice	2/3		
					Major Elective	403X22	Semiconductor Manufacturing Instruments	3/3		
					Major Elective	403X23	Introduction to Equipment Package	3/3		

23 Credits, 24 Hours					26 Credits, 30 Hours					
	First S	emester, Fourth Year				Second S	Semester, Fourth Year			
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits Hours	Notes	
Major Required	403027	English Proficiency qualification	0/2		College Major	40TND9	Interdisciplinary program learning	0/1		
Major Elective	403P18	Practice of IoT Integrated Application	2/3		College Major Required	40TNF1	Interdisciplinary Micro Course Program for Engineering Digital Technology	0/1		
Major Elective	403P24	Summer off-campus internship	3/3		College Elective Course	40TNG5	Industrial College Off-Campus Internship (2)	9/9		
Major Elective	403P47	Introduction to IC Packaging and Testing	3/3		College Elective Course	40TNG6	Professional competence certification	1/1		
Major Elective	403P57	Introduction to Smart Vehicles	3/3		Major Required	403A62	Practical ability of electronic certification	0/3		
Major Elective	403P58	Introduction to Electrostatic Protection Principles	3/3		Major Required	403B47	Practical Training	2/4		
Major Elective	403P59	Visual Recognition Application Practice	2/3		Major Elective	403N12	Creativity	2/2		
Major Elective	403P64	Semester Off-campus Internship (1)	9/9		Major Elective	403N23	Semiconductor Reliability Engineering	3/3		
Major Elective	403P95	Basic Electronic Device Theory and Applications	3/3		Major Elective	403N92	Business Practice	2/6		
Major Elective	403Q04	Optoelectronic Display Devices	3/3		Major Elective	403P16	Advanced Packaging Process Technology	3/3		
Major Elective	403Q28	The Measurement of the Semiconductor Device Lab	2/3		Major Elective	403P60	Integrated Circuit Failure Analysis	3/3		
Major Elective	403W11	Testing for EMC Compliance	2/3		Major Elective	403P62	Smart Factory Practice	2/3		
					Major Elective	403P63	Smart Manufacturing Digital Virtual and Real Integration	2/3		
					Major Elective	403P65	Semester Off-campus Internship (2)	9/9		
					Major Elective	403P93	Advanced Semiconductor Memory Device Fabrication Technology	3/3		
					Major Elective	403P94	Advanced Semiconductor Device Theory and Practice	3/3		
		Credits, 41 Hours					Credits, 57 Hours			