Department of Electronic Engineering

Curriculum Requirements for Enrollees in the Academic Year 112 (Fall 2023)

Program	Four-year technical college program of the Day Division	
Group	None	
Class Type	Regular Class	
Special Program	None	
Curriculum Committee	Department Curriculum	112.4.14、114.04.15
	College Curriculum	112.5.24、114.05.16
	University Curriculum	112.5.29、114.06.09
	Academic Affairs	112.5.29、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 and Elective	Credits	Subject Category	Credits
Required	88 Credits	General Education	22 Credits
		Major Required	66 Credits
		College Major	0 Credits
Elective	40 Credits	General Education	8 Credits
		Major Elective	32 Credits
Other Regulations			
Remarks	"Computer Course" means computer access is required (computer and internet usage fee).		

First Semester, First Year					Second Semester, First Year				
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
General Education	496103	Chinese(1)	2/2		General Education	496203	Chinese(2)	2/2	
General Education	492001		2/2		General Education	492002	English (II)	2/2	
General Education	4912A0	physical education (1)	1/2		General Education	4912B0	physical education (2)	1/2	
General Education	490103	Community Service and Learning(1)	0/1		General Education	490203	Community Service and Learning(2)	0/1	
General Education	497A00		2/2		General Education	497B00		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	Computer Course
Major Required	403A20	Introduction to Electronic Engineering	1/1		Major Required	403A08	Electrical Circuits	3/3	
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	

19 Credits, 23 Hours					22 Credits, 25 Hours				
First Semester, Second Year					Second Semester, Second Year				
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
General Education	496303	Practical Chinese	2/2		General Education	496503	Human Rights and Legal	2/2	
General Education	496403	Contemporary Taiwan and Moder World	2/2		General Education	492004	English (IV)	2/2	
General Education	492003	English(III)	2/2		General Education	4913D0	physical education (4)	1/2	
General Education	4913C0	physical education (3)	1/2		General Education	497D00		2/2	
General Education	497C00		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	Computer Course
Major Required	403B53	Philosophy Ethics	2/2		Major Required	403C15	Program Design	2/3	Computer Course
Major Required	403C13	Integrated Circuit Logic Design and Practice	3/4		Major Elective	403P48	The principle and applications of sensor and actuator	3/3	
					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	

22 Credits, 25 Hours					31 Credits, 35 Hours				
First Semester, Third Year					Second Semester, Third Year				
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / 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	403P42	Introduction to Radio Frequency Communication Module	3/3	
Major Required	403K07	Technology of Semiconductor Packing	3/3		Major Elective	403P54	Programmable Logic Controller Principle and Application	3/3	
Major Elective	403N98	Internship of Circuit Design and Layout	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	403Q34	Solar Cell Overview	3/3		Major Elective	403P83	English for Electronics	2/2	
					Major Elective	403P85	Opto-Electronic Devices Measurement Practice	2/3	
					Major Elective	403P90	Solar Cell Practical Ability Certification	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	
20 Credits, 21 Hours					31 Credits, 35 Hours				
First Semester, Fourth Year					Second Semester, Fourth Year				
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
General Education	492103	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		Major Required	403A62	Practical ability of electronic certification	0/3	
Major Elective	403P47	Introduction to IC Packaging and Testing	3/3		Major Required	403B47	Practical Training	2/4	
Major Elective	403P57	Introduction to Smart Vehicles	3/3		Major Elective	403N12	Creativity	2/2	
Major Elective	403P58	Introduction to Electrostatic Protection Principles	3/3		Major Elective	403N23	Semiconductor Reliability Engineering	3/3	
Major Elective	403P59	Visual Recognition Application Practice	2/3		Major Elective	403P16	Advanced Packaging Process Technology	3/3	
Major Elective	403P64	Semester Off-campus Internship (1)	9/9		Major Elective	403P60	Integrated Circuit Failure Analysis	3/3	
Major Elective	403Q04	Optoelectronic Display Devices	3/3		Major Elective	403P62	Smart Factory Practice	2/3	
Major Elective	403Q28	The Measurement of the Semiconductor Device Lab	2/3		Major Elective	403P63	Smart Manufacturing Digital Virtual and Real Integration	2/3	
Major Elective	403W11	Testing for EMC Compliance	2/3		Major Elective	403P65	Semester Off-campus Internship (2)	9/9	
32 Credits, 38 Hours					26 Credits, 35 Hours				