

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	Industry - Academia Collaboration Program								
Special Program	None								
Curriculum Committee	Department Curriculum	112.04.14							
	College Curriculum	112.05.24							
	University Curriculum	112.05.29							
	Academic Affairs	112.05.29							
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	84 Credits	General Education			9 Credits				
		Major Required			75 Credits				
		College Major			0 Credits				
Elective	44 Credits	General Education			8 Credits				
		Major Elective			36 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 Category	Course Number	Course Name	Credits/Hours	Notes	Course Category	Course Number	Course Name	Credits/Hours	Notes
General Education	496103	Chinese(1)	2/2		General Education	496203	Chinese(2)	2/2	
General Education	492203	English(1)	2/2		General Education	492303	English(2)	2/2	
Major Required	403A08	Electrical Circuits	3/3		General Education	403CZ5	Occupation Safety and Health	2/2	
Major Required	403B82	Shop Practice(1)	4/4		Major Required	403A84	Electronics	3/3	
Major Required	403C38	Calculus	2/2		Major Required	403B83	Factory Practices(2)	4/4	
Major Required	403A38	Introduction to Computer	3/3	Computer Course	Major Required	403C39	Python Programming	3/3	Computer Course
16 Credits, 16 Hours					16 Credits, 16 Hours				
First Semester, Second Year					Second Semester, Second Year				
Course Category	Course Number	Course Name	Credits/Hours	Notes	Course Category	Course Number	Course Name	Credits/Hours	Notes

General Education	403AZ6	Technological English	2/2		General Education	492603	English Conversation	1/1	
General Education	403BZ6	Organization Ethics & Culture	2/2		General Education	403DZ2	Sport and Physical Fitness	2/2	
Major Required	403A50	Technique of Semiconductor Processing	3/3		Major Required	403B85	Factory Practices(4)	4/4	
Major Required	403B84	Factory Practices(3)	4/4		Major Required	403C41	Practice of Intelligent Control Application	3/3	
Major Required	403B90	Electronic Lab.	3/3		Major Required	403C42	Integrated Circuit Logic Design and Practice	3/3	
Major Required	403C46	Solar Cell Overview	2/2		Major Required	403C43	Technology of Semiconductor Packing	3/3	

16 Credits, 16 Hours

16 Credits, 16 Hours

First Semester, Third Year

Second Semester, Third Year

Course Category	Course Number	Course Name	Credits/Hours	Notes	Course Category	Course Number	Course Name	Credits/Hours	Notes
Major Required	403B86	Factory Practices(5)	4/4		Major Required	403A94	Introduction Packaging Material Characteristics	3/3	
Major Required	403C44	Embedded System Overview	3/3		Major Required	403B42	Programmable control and internship	3/3	
Major Required	403C47	Solar Cell Measurement Practices	3/3		Major Required	403B87	Factory Practices(6)	4/4	
Major Elective	403P37	Sens They & Applications	3/3		Major Elective	403P75	Smart Phone Programming	3/3	Computer Course
Major Elective	403X23	Introduction to Equipment Package	3/3		Major Elective	403X22	Semiconductor Manufacturing Instruments	3/3	

16 Credits, 16 Hours

16 Credits, 16 Hours

First Semester, Fourth Year

Second Semester, Fourth Year

Course Category	Course Number	Course Name	Credits/Hours	Notes	Course Category	Course Number	Course Name	Credits/Hours	Notes
Major Required	403B88	Factory Practices(7)	4/4		Major Required	403B89	Factory Practices(8)	4/4	
Major Elective	403P16	Advanced Packaging Process Technology	3/3		Major Elective	403N90	Computer-Aided Drawing	3/3	Computer Course
Major Elective	403P23	Internship of Circuit Design and Layout	3/3	Computer Course	Major Elective	403P34	Practice of IoT Integrated Application	3/3	
Major Elective	403P40	Artificial Intelligence	3/3	Computer Course	Major Elective	403P47	Introduction to IC Packaging and Testing	3/3	
Major Elective	403P79	Introduction to Smart Manufacturing	3/3		Major Elective	403P60	Integrated Circuit Failure Analysis	3/3	
Major Elective	403X33	Solar Cell and Module Manufacturing Practice	3/3		Major Elective	403P80	Semiconductor Factory service training	3/3	

19 Credits, 19 Hours

19 Credits, 19 Hours