Department of Computer Science and Information Engineering Curriculum Requirements for Enrollees in the Academic Year 111 (Fall 2022)

Class Type Regular Class Special Program None													
Class Type Regular Class Special Program Kone	Prog	gram	Four-year technical college program of the Day Division										
Department Curriculum	Gro	oup	None										
Department Curriculum	Class	Type	Regular Class										
College Curriculum College Curriculum III. 05. 20. III. 12. 14. II2. 05. 17. II2. 12. 05. II3. 05. 23 · II4. 05. 16	Special	Program	None										
Credit Committee Committ			Department Curriculum 111.04.27, 111.11.29, 112.04.17, 112.11.28, 113.04.25 \ 114.04.15										
University Curriculum 111.06.06, 111.12.26, 112.05.29, 112.12.12.13.06.03 × 114.06.09			College Curriculum	111.0	5. 20, 1	11. 12. 14, 11	2. 05. 17, 11	2. 12. 05, 113.	. 05. 23 \ 114. 05. 16				
At least 128 credits required (normally 4 years), Study Duration 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 28 credits per semester. Students in Grades 3 and 4 must take no fewer than 9 credits and no more than 28 credits General Education 16 Credits General Education 16 Credits General Education 16 Credits General Education 16 Credits General Education 8 Credits General Education 16 Credits General Education 8 Credits General Education 8 Credits General Education 16 Credits General Education 8 Credits General Education 8 Credits General Education 16 Credits General	Curriculum	Committee	University Curriculum	111.0	6. 06, 1	11. 12. 26, 11	2. 05. 29, 11	2. 12. 12, 113.	. 06. 03 • 114.	. 06. 09)		
Study Puration 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 28 credits per semester. Students in Grades 3 and 4 must take no fewer than 9 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 28 credits General Education 16 Credits General Education 16 Credits General Education 27 Credits General Education 27 Credits General Education 27 Credits General Education 28 General Education 28 Credits General Education 28 General Educ			Academic Affairs	ademic Affairs 111.06.06, 111.12.26, 112.05.29, 112.12.29, 113.06.03 \ 114.06.09									
Credit Load per Credits per semester. Students in Grades 3 and 4 must take no fewer than 9 credits and no more than 25 credits per semester.			At least 128 credits n	equir	ed (no	ormally 4 ye	ears).						
Required 83 Credits General Education			credits per semester.	Stude	nts in	Grades 3 a							
Required Rajor Required G7 Credits	Required an	nd Elective	Credits	Sub	dits								
College Major Coredits				Gen	eral E	Education		16 Cr	redits	ts			
General Education 8 Credits	Requ	ired	83 Credits	Ma	ajor R	equired		67 Cr	redits				
Graduation Course Title Cross-disciplinary Credit Courses Digital Technology Micro-Credit Program Learning(0/1) Practical Project Practical Project Regulations of the fepartment Cross-disciplinary Credit Program Learning(0/1) Practical Project Practical Project Remarks Remarks Cross-disciplinary Credit Program Learning(0/1) Practical Project Practical Project Practical Project Remarks Cross-disciplinary Credit Program Learning(0/1) Digital Technology offered by the student support of the student sepective college According to the regulations of each department Cross-disciplinary Credit Projects, Special Projects, Research Projects, and Graduation Design 2. Regulations of Each Department Cross-disciplinary Credit Program: Cross-disciplinary Learning Course Course Course Course Name Credits Notes Reneral 401023 Chinese(1) 2/2 General 401024 Chinese(2) 2/2 Centeral 400F00 English(II) 2/2 Conservation of the Credits Notes Received Course Course Name Regulation Security Credits Program Accourse Course Name Regulation Security Credits Research Received				С	ollege	Major 0 (0 Cr	redits				
Graduation Course Title Description Regulations/Notes Students must complete at least one (micro) credit program offered by their respective college before graduation, or a (micro) credit program from another college with the approval of their own college. Digital Technology Micro-Credit Program Learning(0/1) Cross-disciplinary Credit Program Learning(0/1) Digital Technology A Micro-Credit Program in Digital Technology offered by the student's respective college According to the regulations of each department According to the regulations of each department Practical Project Practical Projects, Special Projects, Special Projects, Special Projects, Special Projects, Special Projects, and Graduation Design' 2. Regulations of Each Department "Computer Course" means computer access is required (computer and internet usage fee). Graduation Requirements: [GO2] : Cross-disciplinary Credit Program: Cross-disciplinary Learning [GO2] : Cross-disciplinary Credit Program: Digital Technology Micro Program First Semester, First Year Second Semester, First Year Course Course Course Name Credits Notes	Elective			General Education				edits	dits				
Cross-disciplinary Credit Courses Cross-disciplinary Credit Courses			45 Credits	Major Elective				37 Cr	redits				
Cross-disciplinary Credit Courses Cross-disciplinary Credit Courses	Graduation		Course Title	Description					Regulations/Notes				
Cross-disciplinary Credit Program Learning(0/1) Technology offered by the student's respective college Credit Program Course				credit program offered by their respective college before graduation, or a (micro) Establishment of credit program from another college with						ent of	r the		
Practical Project Practical Projects, Special Pr			Micro- Credit Program	Technology offered by the student's Implementation Interdisciplina (Micro) Credit					tion o plinar	of			
Computer Course means computer access is required (computer and internet usage fee). Graduation Requirements:	Practical Project			department Implementation of "Practical Projects, Special Projects, Research Projects, and Graduation Design" 2. Regulations of I						ects, s, es,			
Graduation Requirements: G01 Cross-disciplinary Credit Program: Cross-disciplinary Learning G02 Cross-disciplinary Credit Program: Digital Technology Micro Program G04 Practical Project	Other Regulations												
First Semester, First Year Course Course Course Name Credits Notes Course Course Course Name Credits Hours Notes General Education General 400E00 English(I) 2/2 General 400E00 English(I) 2/2 General 400E00 English(I) 2/2 General 400E00 English(II) 2/2	Remarks		Graduation Requirement 「G01」: Cross-discipl 「G02」: Cross-discipl	ents: Eplinary Credit Program: Cross-disciplinary Learning Eplinary Credit Program: Digital Technology Micro Program						ee).			
General 401023 Chinese(1) 2/2 General 401024 Chinese(2) 2/2 General 400F00 English(I) 2/2 General 400F00 English(II) 2/2 Chinese(2) 2/2 Chinese(3) 2/2 Chinese(4) 2/2 Chinese(5) 2/2 Chinese(6) 2/2 Chinese(7) 2/2 Chinese(8) 2/2 Chinese(1)		First Se					Second S	Semester, Fi	rst Year				
General Education 40I023 Chinese(1) 2/2 General Education 40I024 Chinese(2) 2/2 General General General General Household General Ge	Course	Course	Course Name	/	Notes	Course	Course	Course	e Name	/	Notes		
General 400E00 English(I) 2/2 General 400E00 English(II) 2/2		401023	Chinese(1)				401024	Chinese(2)					
EQUICATION EQUICATION EQUICATION		400E00	English(I)	2/2			400F00	English(II))	2/2			

Ca 1	401001	0 0 . 0	0 /1		Ca 1	401000	0 0	0.71	
General Education	401061	Community Service & Learning(1)	0/1		General Education	401062	Community Service & Learning(2)	0/1	
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	40IA03	Physics(1)	3/3		Major Required	401022	Human Rights and Legal Education	2/2	
Major Required	40IA05	Laboratory of Physics	1/2		Major Required	40 I A 04	Physics(2)	3/3	
Major Required	40 I A 0 6	Calculus(1)	3/3		Major Required	40IA07	Calculus(2)	3/3	
Major Required	401013	Introduction to computer science	2/3	Compu ter Cours e	Major Required	40 I A41	Linear Algebra	3/3	
Major Required	40 I A 26	Discrete Mathematics	3/3		Major Required	40 I A 52	Programming Language(2)	2/3	Compu ter Cours e
Major Required	40 I A51	Programming Language(1)	2/3	Compu ter Cours e	Major Required	401037	Labor education(2)	0/1	0
Major Required	401036	Labor education(1)	0/1	-	Major Elective	40 I NH2	Python Programming	3/3	Compu ter Cours e
	21 (Credits, 27 Hours				23 (Credits, 27 Hours		
	First Se	emester, Second Year	r			Second S	Semester, Second Year	1	1
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
General Education	400G00	English(III)	2/2		General Education	400H00	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	401003	Practical Chinese	2/2		Major Required	401040	Contemporary Taiwan and Modern World	2/2	
Major Required	40 I A 1 0	Electronic Circuits(1)	3/3		Major Required	40 I A 1 1	Electronic Circuits(2)	3/3	
Major Required	40 I A 1 6	Digital System Design	3/3		Major Required	40 I A 17	Practice of Electronic Circuits	2/4	
Major Required	40 I A23	Data Structure	3/3	Compu ter Cours e	Major Required	40 I A22	Computer Architecture	3/3	
Major Elective	40IN02	Morality and Professional Ethics	2/2		Major Required	40 I A44	Practice of Electronic Circuits	3/3	
Major Elective	40IN15	Object Oriented Programming	2/3	Compu ter Cours e	Major Required	40IA53	Probability and Statistics	3/3	
Major Elective	40IN58	Electrical Circuits	3/3		Major Elective	40 I N 0 1	Career Consulting	2/2	
Major Elective	40IN60	Engineering Mathematics	3/3		Major Elective	40 I NK 6	Introduction to Information Security	3/3	
Major Elective	40INI9	Principle and Practice of Computer Network	3/4	Compu ter Cours e	Major Elective	40 I NL4	Data Base Management System	3/3	Compu ter Cours e
Major Elective	40INJ1	Web User Interface (UI) Design	2/3	Compu ter Cours e	Major Elective	40INL5	Java Programming	3/3	Compu ter Cours e
					Major Elective	40 I NL6	Embedded System Overview	3/3	Compu ter Cours e
					Major Elective	40 I NL7	Frontend Web Development and Design	3/3	Compu ter Cours e

	31 Credits, 35 Hours					38 Credits, 41 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	401A38	Algorithm	3/3	Compu ter Cours e	Major Required	40IA24	Operating Systems	3/3			
Major Required	401A47	Microcomputer Theorem and Practice	3/3	Compu ter Cours e	Major Required	40IA50	Forums of Computer Science and Information Engineering	2/2			
Major Elective	40IN38	Signals and Systems	3/3		Major Elective	40 I N 23	Originality Thinking Training	2/2			
Major Elective	40 I NE7	Artificial intelligence	3/3	Compu ter Cours e	Major Elective	40 I N48	Digital Signal Processing	3/3			
Major Elective	40 I NL8	Java Application Practice	3/3	Compu ter Cours e	Major Elective	40 I NF9	Introduction to Cloud Management	3/3			
Major Elective	40 I NL9	Assembly Language Programming	3/3	Compu ter Cours e	Major Elective	40INI4	Deep Learning	3/3	Compu ter Cours e		
Major Elective	40 I NM1	Numerical Methods	3/3	Compu ter Cours e	Major Elective	40INM6	Defensive and Offensive Cybersecurity	3/3	Compu ter Cours e		
Major Elective	40INM2	Software Engineering	3/3	Compu ter Cours e	Major Elective	40 I NM7	Embedded System Design	3/3	Compu ter Cours e		
Major Elective	40INM3	Introduction to Internet of Things	3/3	Compu ter Cours e	Major Elective	40INM8	Smart Phone Programming	3/3	Compu ter Cours e		
Major Elective	40INM4	Practice of Intelligent Robot	3/3	Compu ter Cours e	Major Elective	40 I NO1	Full Stack Web Development and Management Practice	3/3	Compu ter Cours e		
Major Elective	40INM5	Backend Web Development and Design	3/3	Compu ter Cours e	Major Elective	40 I NO9	The Practice of IOT Integration System	3/3	Compu ter Cours e		
Major Elective	40 I NO2	Operating System and Database Security	3/3	Compu ter Cours e							
		Credits, 36 Hours				31 (Credits, 31 Hours				
		emester, Fourth Year			Second Semester, Fourth Year Course Course North Year						
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Hours	Notes		
Major Required	401012	English Proficiency qualification	0/2		College Major	40TND9	Interdisciplinary program learning	0/1	G01		
Major Required	40 I A 35	Practical Project	2/4	G04	College Major Required	40TNF1	Interdisciplinary Micro Course Program for Engineering Digital Technology	0/1	G02		
Major Elective	40ING2	Big Data Analysis	3/3	Compu ter Cours e	Major Elective	40 I N 27	Practical Training	2/3			
Major Elective	40IQ12	Hardware/software Technology	3/3		Major Elective	40INI3	Practical Applications of Artificial Intelligence	3/3	Compu ter Cours e		
Major Elective	40IN33	Project Management	3/3		Major Elective	40 IN I 6	Field Practice(2)	12/12			
Major Elective	40 I N B 7	Practice of Image Processing Systems	3/3		Major Elective	40INJ5	Laws and Ethic in Information Security	3/3			
Major Elective	40ING6	Innovation and Entrepreneurship	2/2		Major Elective	40INJ9	IoT Threat Detection and Protection	3/3	Compu ter Cours e		

Major Elective	40INI5	Field Practice(1)	12/12		Major Elective	40 I NK5	Introduction to Industry 4.0	3/3			
Major Elective	40 I N K 4	Summer Internship	3/3		Major Elective	40 I NK9	Introduction to Smart Manufacturing	3/3	Compu ter Cours e		
Major Elective	40 I N O 3	Cloud Computing Practices	3/3	Compu ter Cours e	Major Elective	40 I NO7	Server Virtualization Practice	3/3	Compu ter Cours e		
Major Elective	40 I N O 5	Practice of Cyber Kill Chain	3/3	Compu ter Cours e	Major Elective	40 I NO8	Practicing of 3D Printing	3/3	Compu ter Cours e		
Major Elective	40 I N O 6	Theory and Applications for Sensors	3/3	Compu ter Cours e	Major Elective	40 I NP2	Practical Training	2/2			
Major Elective	40IQ13	Introduction to Smart Manufacturing	3/3								
Major Elective	40 I Q 14	Practical Application of AI Smart Equipments	3/3								
Major Elective	40 I Q 1 5	Labor Law	1/1								
	47 Credits, 51 Hours					37 Credits, 40 Hours					