Department of Computer Science and Information Engineering Curriculum Requirements for Enrollees in the Academic Year 112 (Fall 2023)

Program Four-year technical college program of the Day Division													
Special Program None Special Program None	Prog	gram	Four-year technical college program of the Day Division										
Special Program	Gro	oup	None										
Department Curriculum 112, 04, 17 - 112, 11, 28 - 113, 04, 25 - 113, 09, 03 - 114, 04, 15	Class	Туре	Regular Class										
College Curriculum College Curriculum I12.05.17 \cdot I12.12.05 \cdot I13.05.23 \cdot I13.09.11 \cdot I14.05.16	Special	Program	None										
University Curriculum 112.05.29 \cdot 112.12.12 \cdot 113.06.03 \cdot 113.09.23 \cdot 114.06.09			Department Curriculum 112.04.17、112.11.28、113.04.25、113.09.03、114.04.15										
University Curriculum 112, 05, 29 - 112, 12, 29 - 113, 06, 03 - 113, 199, 23 - 114, 06, 09			College Curriculum	112.0	5.17、	112. 12. 05 、	114. 05. 16						
Study Duration 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 per semester. Students in Grades 3 and 4 must take no fewer than 9 credits and no more than 28 credits Subject Category Credits	Curriculum	Committee	University Curriculum	112.0	5. 29、	112. 12. 12 、	114. 06. 09						
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			Academic Affairs	112. 05. 29 \ 112. 12. 29 \ 113. 06. 03 \ 113. 09. 23 \ 114. 06. 09									
Credit Load per Credits Credits Subject Category Credits			At least 128 credits n	equir	ed (no	ormally 4 ye	ears).						
Required Required Required Required Required Required Regulations Regu			credits per semester.	Stude	nts in	Grades 3 a							
Required 82 Credits Major Required 60 Credits	Required ar	nd Elective	Credits	Sul	ject	Category		Cre	dits				
College Major O Credits				Gen	eral E	Education		22 Cr	edits				
General Education S Credits	Requ	ired	82 Credits	Má	ajor R	equired		60 Cr	edits				
Cross-disciplinary Credit Courses Digital Technology Micro- Credit Program Learning(0/1) A Micro-Credit Program in Digital Technology offered by the student's respective college with the approval of their own college. Crodit Program Learning(0/1) Practical Project Program: Cross-disciplinary Credit Program: Digital Technology Micro Program Project Program Projec				College Major			0 Credits						
Graduation Course Title Cross-disciplinary Credit Courses Cross-disciplinary Credit Courses Digital Technology Micro-Credit Program Learning(0/1) Cross-disciplinary Credit Program Cross-disciplinary Credit Program Learning(0/1) Practical Project Practical Project Practical Project Practical Project Practical Project Special Project(2/2) Course Remarks Course Course Semester, First Year Course Course Course Name Course Course Name Course Course Name Conservation of Credits Notes Course Course Name Course Course Course Name Course Name Course Name Course Name Course Name Course Name Course Name	Elective			General Education			8 Credits						
Cross-disciplinary Credit Courses Program Learning(0/1) Digital Technology offered by their offered by their respective college before graduation, or a (micro) credit program college. A Micro-Credit Program in Digital Technology offered by the student's respective college before graduation, or a (micro) credit program from another college with the approval of their own college. A Micro-Credit Program in Digital Technology offered by the student's respective college Credit Program Learning(0/1) A Cocording to the regulations of each department Program A Cocording to the regulations of each department Program Project (2/2) Practical Projects, and Graduation Design' 2. Regulations of Each Department Graduation Requirements Gold Cross-disciplinary Credit Program: Cross-disciplinary Learning Gold Project Program Program Digital Technology Micro-Program Program Digital Projects, and Graduation Practical Projects, and Gr			46 Credits	Major Elective				edits	dits				
Cross-disciplinary Credit Courses Cross-disciplinary Credit Courses Cross-disciplinary Credit Program Learning(0/1) Cross-disciplinary Credit Program Digital Technology A Micro-Credit Program in Digital Technology offered by the student's Credit Programs Credit Program Credit Program Digital Technology offered by the student's Celebrate Course Course	Graduation		Course Title	Description					Regulations/Notes				
Cross-disciplinary Credit Program Learning(0/1) A Micro-Credit Program in Digital Technology offered by the student's respective college Learning(0/1) Technology offered by the student's Learning(0/1) Technology offered by the student's Laplementation of Interdisciplinary (Micro) Credit Programs				credit program offered by their respective college before graduation, or a (micro) credit program from another college with					Establishment of				
Practical Project Practical Project(2/2) Project(2/2) Project(2/2) Other Regulations "Computer Course" means computer access is required (computer and internet usage fee). Graduation Requirements: Goal_: Cross-disciplinary Credit Program: Cross-disciplinary Learning Good_: Cross-disciplinary Credit Program: Digital Technology Micro Program First Semester, First Year Course Course Course Name Credits Notes Notes Course Course Name Credits Notes General A96118 Chinese(1) Z/2 General A96218 Chinese(2) Z/2 General A96518 Human Rights and Z/2			Micro- Credit Program	Technology offered by the student's respective college [Inte					Implementa Interdiscip (Micro) Cre	Implementation of Interdisciplinary (Micro) Credit Programs			
"Computer Course" means computer access is required (computer and internet usage fee). Graduation Requirements:	Practical Project			department Implementation of "Practical Projects Research Project and Graduation Design" 2. Regulations of						tion o l Proj ojects roject tion	f ects, , s,		
Remarks Graduation Requirements:	Other Regulations												
First Semester, First Year Course Course Course Name Credits Notes Course Course Course Name Credits Hours Notes General A96118 Chinese(1) 2/2 General A96218 Chinese(2) 2/2 General A92001 2/2 General A96518 Human Rights and 2/2	Remarks		Graduation Requirement 「G01」:Cross-discipl 「G02」:Cross-discipl	ts: linary linary	Credi	t Program:	Cross-disc	iplinary Lea	arning	sage f	ee).		
General 496118 Chinese(1) 2/2 General 496218 Chinese(2) 2/2 General 496318 Human Rights and 2/2 General 496318 Human Rights and 2/2 Chinese(2) 2/2 Chinese(3) Chinese(4) 2/2 Chinese(5) Chinese(6) 2/2 Chinese(7) 2/2 Chinese(8) Chinese(1) 2/2 Chinese(1) 2/2		First Se		<u>,, - v</u>		Second Semester, First			rst Year				
General Education 496118 Chinese(1) 2/2 General Education 496218 Chinese(2) 2/2 General Plant 492001 2/2 General Plant 496518 Human Rights and Human Rights 2/2	Course Course Name			/	Notes	Course	Course	Course	e Name	/	Notes		
General 492001 2/2 General 496518 Human Rights and 2/2		496118	Chinese(1)				496218	Chinese(2)					
	General	492001		2/2		General	496518		ts and	2/2			

General Education	4912A0	physical education (1)	1/2		General Education	492002	English (II)	2/2		
General Education	490118	Community Service and Learning(1)	0/1		General Education	4912B0	physical education (2)	1/2		
General Education	497A00		2/2		General Education	490218	Community Service and Learning(2)	0/1		
Major Required	40IA03	Physics(1)	3/3		General Education	497B00		2/2		
Major Required	40IA05	Laboratory of Physics	1/2		Major Required	40 I A 04	Physics(2)	3/3		
Major Required	40IA06	Calculus(1)	3/3		Major Required	40 I A 0 7	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	Ü	Major Required	40 I A 43	Programming Language(2)	3/3	Compu ter Cours e	
Major Required	40IA51	Programming Language(1)	2/3	Compu ter Cours e	Major Elective	40 I NH2	Python Programming	3/3	Compu ter Cours e	
	21 (Credits, 26 Hours				24 (Credits, 26 Hours			
	First Se	emester, Second Year				Second S	Semester, Second Year			
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes	
General Education	496318	Practical Chinese	2/2		General Education	496418	Contemporary Taiwan and Moder World	2/2		
General Education	492003	English(III)	2/2		General Education	492004	English (IV)	2/2		
General Education	4913C0	physical education (3)	1/2		General Education	4913D0	physical education (4)	1/2		
General Education	497C00		2/2		General Education	497D00		2/2		
Major Required	40IA23	Data Structure	3/3	Compu ter Cours e	Major Required	40 I A 1 6	Digital System Design	3/3		
Major Required	40IA36	Electronic Circuits	3/3		Major Required	40 I A 22	Computer Architecture	3/3		
Major Required	40 I A 46	Digital Logic Design	3/3		Major Required	40 I A44	Practice of Electronic Circuits	3/3		
Major Elective	40IN02	Morality and Professional Ethics	2/2		Major Required	40 I A53	Probability and Statistics	3/3		
Major Elective	40 I N 58	Electrical Circuits	3/3		Major Elective	40 I N 0 1	Career Consulting	2/2		
Major Elective	40 IN 60	Engineering Mathematics	3/3		Major Elective	40 I NL4	Data Base Management System	3/3	Compu ter Cours e	
Major Elective	40 I NL1	Object Oriented Programming	3/3	Compu ter Cours e	Major Elective	40INL5	Java Programming	3/3	Compu ter Cours e	
Major Elective	40 I NL2	Principle and Practice of Computer Network	3/3	Compu ter Cours e	Major Elective	40 I NL6	Embedded System Overview	3/3	Compu ter Cours e	
Major Elective	40INL3	Web User Interface (UI) Design	3/3	Compu ter Cours e	Major Elective	40 I NL7	Frontend Web Development and Design	3/3	Compu ter Cours e	
					Major Elective	40 I NP3	Information Security	3/3	Compu ter Cours e	
	33 Credits, 34 Hours					36 (Credits, 37 Hours			
	First S	Semester, Third Year			Second Semester, Third Year					

Major Required	40IA38	Algorithm	3/3	Compu ter Cours e	Major Required	40IA24	Operating Systems	3/3	
Major Required	40IA47	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 2 3	Originality Thinking Training	2/2	
Major Elective	40INE7	Artificial intelligence	3/3	Compu ter Cours e	Major Elective	40 I N 48	Digital Signal Processing	3/3	
Major Elective	40INL8	Java Application Practice	3/3	Compu ter Cours e	Major Elective	40INF9	Introduction to Cloud Management	3/3	
Major Elective	40INL9	Assembly Language Programming	3/3	Compu ter Cours e	Major Elective	40INI4	Deep Learning	3/3	Compu ter Cours e
Major Elective	40INM1	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	40INM7	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 NO 1	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 N O 9	The Practice of IOT Integration System	3/3	Compu ter Cours e
Major Elective	40INP4	System and Cybersecurity	3/3						
		Credits, 36 Hours Temester, Fourth Year					Credits, 31 Hours Demester, Fourth Year		
Course	Course	Course Name	Credits	Notes	Course	Course	Course Name	Credits	Notes
General Education	492118	English Proficiency qualification	Hours 0/2		College Major	40TND9	Interdisciplinary program learning	Hours 0/1	G01
Major Required	401A35	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	40INI3	Practical Applications of Artificial Intelligence	3/3	Compu ter Cours e
Major Elective	40IN33	Project Management	3/3		Major Elective	40INI6	Field Practice(2)	12/12	
Major Elective	401NB7	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	40 I NO7	Server Virtualization Practice	3/3	Compu ter Cours e
Major Elective	40INI5	Field Practice(1)	12/12		Major Elective	40 I N O 8	Practicing of 3D Printing	3/3	Compu ter Cours e
Major Elective	40 I NK 4	Summer Internship	3/3		Major Elective	40 I NP2	Practical Training	2/2	
Major Elective	401NO3	Cloud Computing Practices	3/3	Compu ter Cours e	Major Elective	40 INP6	Practices of Extended Reality Applications	3/3	Compu ter Cours e

Major Elective	40INO6	Theory and Applications for Sensors	3/3	Compu ter Cours e					
Major Elective	40 I NP1	Practice of XR Programming	3/3	Compu ter Cours e					
	37 Credits, 41 Hours					29 C	redits,	31 Hours	