## Department of Computer Science and Information Engineering Curriculum Requirements for Enrollees in the Academic Year 113 (Fall 2024)

Prog	gram	Four-year technical college program of the Day Division										
Gro	oup	None										
Class Type		Regular Class										
Special Program		None										
		Department Curriculum 113.04.25 \ 113.09.03 \ 114.04.29										
		College Curriculum	113. 05. 23 \ 113. 09. 11 \ 114. 05. 16									
Curriculum	Committee	University Curriculum 113.06.03 \ 113.09.23 \ 114.06.09										
		Academic Affairs 113.06.03 \ 113.09.23 \ 114.06.09										
	on Credits Duration	At least 128 credits required (normally 4 years).										
	Load per	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	Sul	oject	Category		Cred	dits				
			Gen	eral E	Education	19 Credits						
Requ	iired	76 Credits	Ma	ajor R	equired		57 Cr	edits				
			C	ollege	e Major	0 Credits						
Elective		F9 C - 1' + -	Gen	eral E	Education	8 Credits						
Elec	ctive	52 Credits	Ma	ajor E	lective		44 Cr	redits				
Graduation		Course Title			Descri	Regulations/Notes						
Cross-dis Credit	sciplinary Courses	Cross-disciplinary Program Learning(0/1)	Students must complete at least one (micro) credit program offered by their respective college before graduation, or a (micro) Establishment of credit program from another college with the approval of their own college.									
Cross-dis Credit		Micro- Credit Program	A Micro-Credit Program in Digital. Technology offered by the student's respective college  2. Guidelines for to Implementation of Interdisciplinary (Micro) Credit Programs					f				
Practical Project		Practical Project(2/2)	According to the regulations of each department  1. Regulations for the Implementation of "Practical Projects, Special Projects, Research Projects, and Graduation Design"  2. Regulations of Each Department							f ects, , s,		
Other Regulations												
Remarks		"Computer Course" means computer access is required (computer and internet usage fee).  Graduation Requirements:  「G01」: Cross-disciplinary Credit Program: Cross-disciplinary Learning  「G02」: Cross-disciplinary Credit Program: Digital Technology Micro Program  「G04」: Practical Project										
First S		emester, First Year				Second Semester, First Year						
Course	Course	Course Name	Credits Notes Course Hours			Course	our se name		Credits / Hours	Notes		
General Education	496818	Literary Appreciation and Expression	2/2		General Education	496518	Human Righ Legal	ights and 2/2				
General Education	492001	<u>,</u> <del></del>	2/2		General Education	496918	Practical (	1 Chinese 2/2				

General Education	4912C0	Physical Education(1)	2/2		General Education	492002	English (II)	2/2	
General Education	490318	Community Service & Learning(1)	0.5/1		General Education	4912D0	Physical Education(2)	2/2	
General Education	497A00		2/2		General Education	490418	Community Service & Learning(2)	0.5/1	
Major Required	401066	Introduction to Computer Science	3/3	Compu ter Cours e	General Education Liberal Arts Elective	497B00		2/2	
Major Required	40 I A 26	Discrete Mathematics	3/3		Major Required	40 I A 41	Linear Algebra	3/3	
Major Required	40IA42	Programming Language(1)	3/3	Compu ter Cours e	Major Required	40 I A 43	Programming Language(2)	3/3	Compu ter Cours e
Major Required	40 I A48	Physics	3/3		Major Required	40 I A 58	Laboratory of Physics	2/2	
Major Required	40IA49	Calculus	3/3		Major Elective	40 I NH2	Python Programming	3/3	Compu ter Cours e
	23. 5	Credits, 24 Hours				21.5	Credits, 22 Hours		
		emester, Second Year					emester, Second Year		
Course	Course	Course Name	Credits	Notes	Course	Course	Course Name	Credits	Notes
General	492003	English(III)	Hours 2/2		General	496418	Contemporary Taiwan	Hours 2/2	
Education General	497C00		2/2		Education General	497D00	and Moder World	2/2	
Education Major	491C00 40IA23	Data Structure	3/3	Compu	Education  Major	491D00 40IA16	Digital System Design	3/3	
Required				ter Cours e	Required				
Major Required	40IA36	Electronic Circuits	3/3		Major Required	40 I A22	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	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 NL4	Data Base Management System	3/3	Compu ter Cours e
Major Elective	40 INL1	Object Oriented Programming	3/3	Compu ter Cours e	Major Elective	40 I NL5	Java Programming	3/3	Compu ter Cours e
Major Elective	40 INL2	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
		Credits, 30 Hours	33 Credits, 33 Hours						
Carrage		Semester, Third Year	Credits	Notes	C		Semester, Third Year	Credits	Notes
Course	Course	Course Name	/ Hours		Course	Course	Course Name	Hours	notes
Major Required	40IA38	Algorithm	3/3	Compu ter Cours e	Major Required	40 I A24	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   Majo	Receive   401NB7   Artificial intelligence   3/3   Computer   Course   Co										
Major   Majo	Restrict   Months   Java Application   Second		40IN38	Signals and Systems	3/3			40 I N 2 3		2/2	
Major   Majo	Major Elective   401NL8   Java Application   7/3   Comp   Elective   401NL9   Introduction to Cloud Management   Major Elective   401NL1   Deep Learning   Major Elective   401NL2   Software Engineering   3/3   Comp   Elective   401NL2   Deep Learning   Major Elective   401NL2   Software Engineering   3/3   Comp   Elective   401NL2   Deep Learning   Major Elective   401NL3   Introduction to Internet of Things   3/3   Comp   Elective   401NL3   Introduction to Internet of Things   3/3   Comp   Elective   401NL3   Introduction to Internet of Things   3/3   Comp   Elective   401NL3   Deep Learning   Major Elective   401NL4   Practice of Intelligent Robot   3/4   Comp   Elective   401NL3   Development and Development and Design   Major Elective   401NL4   System and Cybersecurity   Major Elective   401NL4   Major El		40 I NE7		3/3	ter Cours		40IN48		3/3	
	Major Elective   401MJ   Assembly Language   8/3   Comparation   10		40 I NL8		3/3	Compu ter Cours		401NF9		3/3	
Major Elective	Major Elective   401NM2   Numerical Methods   3/3   Compute   Elective   Course		40 I NL9		3/3	Compu ter Cours		401NI4	Deep Learning	3/3	ter Cours
Major Elective   401NM2   Software Engineering   3/3   Comparison   Cours   Elective   Major Elective   401NM3   Introduction to Internet of Things   3/3   Comparison   Major Elective   401NM4   Practice of Internet of Things   3/3   Comparison   Major Elective   401NM4   Practice of Internet of Things   3/3   Comparison   Major Elective   401NM5   Saart Phone   3/3   Comparison   Major Elective   401NM5   Major Practice   Major Elective   401NM5   Major Elective   401NM5   Major Practice   Major Elective   401NM5   Major El	Major Elective   401NM2   Software Engineering   3/3   Computer   Course		40 I NM1	Numerical Methods	3/3	Compu ter Cours		401NM6	Offensive	3/3	Compu ter Cours
Major Elective   401NM3   Introduction to Internet of Things   3/3   Compt Cours   Elective   Cours   Elective   Elective   Major Elective	Major Elective   401NM3   Introduction to Internet of Things   3/3   Computer Course   Major Elective   401NM4   Practice of Intelligent Robot   3/3   Computer Course   Major Elective   401NM5   Backend Web Development and Design   Major Elective   401NM6   Major Elective   401NM7   Major Elective   401NM7   Practice of Image Processing Systems   3/3   Major Elective   401NM6   Major Practice of Image Processing Systems   3/3   Major Elective   401NM6   Major Practice of Image Processing Systems   3/3   Major Elective   401NM6   Major Practice of Image Processing Systems   3/3   Major Elective   401NM6   Ma		40INM2	Software Engineering	3/3	Compu ter Cours		40INM7		3/3	Compu ter Cours
Major Elective   401NM4   Practice of Intelligent Robot   3/3   Compared Flective   401N01   Full Stack Web Development and	Major Elective		40INM3		3/3	Compu ter Cours		401NM8		3/3	Compu ter Cours
Major Elective   401NM5   Backend Web Development and Develo	Major Elective   401NM5   Backend Web   Development and   201   Cours   Cour		40 I NM4		3/3	Compu ter Cours		401NO1	Development and	3/3	Compu ter Cours
Major Elective   Majo	Major Elective   401NP4   System and Cybersecurity   3/3		40INM5	Development and	3/3	Compu ter Cours		401NO9	The Practice of IOT	3/3	Compu ter Cours
First Semester, Fourth Year   Course   Course   Course   Name   Credits   Notes   Course   Course   Course   Course   Name   Course   Cou	Course Course Name   Credits   Notes   Course   Course Name   Course Name   Course   Course Name   Course Najor   Course		40 I NP4		3/3	Ü					
Course   Course   Course   Course   Name   Credits   Notes   Course   Course   Course   Name   Credits   Notes   Course   Course   Name   Credits   Notes   Course   Course   Course   Course   Name   Credits   Notes   Course   C	Course Course Course Name   Credits   Notes   Course   Course Name   Course N										
Course Course Course Name Credits Notes Course Course Course Name Credits Notes Course Course Course Name Credits Notes Notes Course Course Name Credits Notes Notes Name (Source Name)  General Education 4918 English Proficiency qualification 7/2 College Major Practical Project 2/4 G04 College Major Practical Project 2/4 G04 College Name Program learning O/1 G02 Major Course Program for Engineering Digital Technology Digital Technology Name of Artificial Intelligence Processing Systems Processing Systems Processing Systems Najor Elective 401NB7 Practice of Image Processing Systems Najor Elective 401NG6 Innovation and Entrepreneurship Practice (1) 12/12 Major Elective Name Practical Project Name Najor Elective Name Najor Elective Name Najor Elective Najor Elective Name Najor Elective Name Najor Elective Name Najor Elective Najor Elective Name Najor Elective Najor Elective Name Najor Elective Name Najor Elective Najor Najor Najor Elective Najor Naj	Course Course Name  General Education  General Education  Major Required  Major Elective  Major Major Elective  Major Elective  Major Elective  Major Elective	'	36 (	Credits, 36 Hours	•	'		31	Credits, 31 Hours		•
General Education 49218 English Proficiency qualification 0/2 College Major Required 401N35 Practical Project 2/4 GO4 College Major Required Practical Project 2/4 GO4 College Major Practical Project Major Elective Program for Engineering Digital Technology GO4 Computer Cours Program for Engineering Program for Elective Project Management 3/3 Major Elective A01N13 Practical Applications of Artificial Intelligence Processing Systems Processing Systems Processing Systems Processing Systems Adolescent Project Major Elective A01N15 Practice of Image Processing Systems Processing Systems Processing Systems Processing Systems Processing Systems Processing Systems Adolescent Practice A01N05 Practice A01N05 Practice Processing Systems Printing A01N07 Practice Processing Systems Printing A01N08 Practicing of 3D Printing A01N08 Practicing of 3D Printing A01N08 Practice Practice Processing Systems Printing A01N08 Practice Practice Practices Processing Systems Practices Processing Systems Printing A01N08 Practices of Extended Reality Applications Practices Processing Systems Practices Processors Printing A01N08 Practices of Extended Reality Applications Practices Processors Proce	General Education   492118   English Proficiency qualification   401A35   Practical Project   2/4   604   College Major Required   401A35   Practical Project   2/4   604   College Major Required   401NG2   Big Data Analysis   3/3   Computer Course   Course Program for Engineering Digital Technology   Major Elective   401NG2   Big Data Analysis   3/3   Computer Course   Course   Course   Practical Applications of Artificial Intelligence   401NG2   Major Elective   401NG2   Practice of Image Processing Systems   401NG6   Innovation and Elective   401NG6   Innovation and Entrepreneurship   2/2   Major Elective   401NG5   Elective   401NG6		First Se	emester, Fourth Year				Second S	Semester, Fourth Year		
Major Required Major Course Program for Engineering Digital Technology Major Elective Major Major Elective Major Elective Major Elective Major Major Elective Major Major E	Major Required   A0IA35   Practical Project   A0IA35   A0ING2   A	Course	Course	Course Name	/	Notes	Course	Course	Course Name	/	Notes
Required Big Data Analysis   Some Delective   Author Delective   Autho	Required    Major Elective		492118		0/2			40TND9		0/1	G01
Major Elective Major	Major Elective  Major Elective	Major equired	40IA35	Practical Project	2/4	G04	Major	40TNF1	Micro Course Program for Engineering	0/1	G02
Major Elective   Majo	Major Elective   A0INB7   Practice of Image Processing Systems   A0INB7   Practice of Image Processing Systems   A0INB7   A0INB7   Practice of Image Processing Systems   A0INB7   A0INB7   Elective   A0INB7   Elective   A0INB7   Elective   A0INB7   Elective   A0INB7   Elective   A0INB8   Elective   A0INB9   Elective   A0INB		40 I NG2	Big Data Analysis	3/3	ter Cours		40INI3	Practical Applications of Artificial	3/3	ter Cours
Major Elective  Major Elective	Major Elective401NB7Practice of Image Processing Systems3/3Major Elective401NJ5Laws and Ethic in Information SecurityMajor Elective401NG6Innovation and Entrepreneurship2/2Major Elective401NO7Server Virtualization PracticeMajor Elective401NI5Field Practice(1)12/12Major Elective401NO8Practicing of 3D PrintingMajor Elective401NV4Summer Internship3/3Major Elective401NP2Practical TrainingMajor Elective401NO3Cloud Computing Practices3/3Computer Cours eMajor Elective401NP6Practices of Extended Reality ApplicationsMajor Elective401NP1Theory and Applications for Sensors3/3Computer Cours eComputer Cours eMajor Elective401NP1Practice of XR3/3Computer		40IN33	Project Management	3/3			401NI6	Field Practice(2)	12/12	
Elective Entrepreneurship Elective Practice Cours e Cours e Practice Entrepreneurship Elective Entrepreneurship Elective Practice Practice tercours e Practice Summer Internship Elective Printing 3/3 Computer Cours e Printing 2/2 Elective A0INVA Summer Internship 3/3 Major Elective A0INVA Summer Internship 3/3 Computer Cours e Elective Practical Training 2/2 Elective A0INVA Summer Internship 3/3 Computer Cours e Elective Practical Training 2/2 Elective A0INVA Applications for Sensors 3/3 Computer Cours e Elective Practices of Extended Reality Applications 3/3 Computer Cours e Elective Practice of Extended Reality Applications Cours e Elective Practice of Extended Reality Applications 2/2 Elective Practice of Extended Reality Applications 2/2 Elective Elective Practice of Extended Reality Applications 2/2 Elective Electiv	Elective Entrepreneurship Elective Practice  Major Elective 40INI5 Field Practice(1) 12/12 Major Elective 40INV4 Summer Internship 3/3 Major Elective 40INV4 Summer Internship 3/3 Major Elective 40INV3 Cloud Computing Practices 3/3 Computer Cours e Heality Applications for Sensors 40INV1 Practice of XR 3/3 Compu	Major Elective	40 I NB7		3/3		Major Elective	40INJ5		3/3	
Major Elective40INI5Field Practice(1)12/12Major Elective40IN08Practicing of 3D Printing3/3Computer Cours eMajor Elective40INK4Summer Internship3/3Major Elective40INP2Practical Training2/2Major Elective40IN03Cloud Computing Practices3/3Computer Cours eMajor Elective40INP6Practices of Extended Reality Applications3/3Computer Cours eMajor Elective40INP1Theory and Applications for Sensors3/3Computer 	Major Elective  A0INO6  Theory and Applications for Sensors  Major Sensors  Major Computer Cours Elective  Major Elective  A0INO6  Applications for Sensors  Major Computer Cours Elective  Major Computer Cours Elective  A0INO6  Applications for Sensors  Major Major A0INO1  Practice of XR  3/3  Computer Cours Elective  Major Computer Cours Elective  A0INO6  Applications for Sensors  Major Computer Cours Elective  Major Computer Cours Elective  A0INO6  Applications for Sensors  Major Computer Cours Elective  Major Computer Cours Elective  A0INO6  Applications for Sensors  Major Computer Cours Elective  A0INO6  Applications for Sensors  Major Computer Cours Elective  A0INO6  Applications for Sensors  Major Computer Cours Elective  Major Computer Cours Elective  A0INO6  Applications for Sensors  Major Computer Cours Elective  Major Elective  A0INO6  ADINO6  Major Elective  A0INO6  ADINO6  ADINO		40 I NG6		2/2		Major Elective	40INO7		3/3	ter Cours
Major Elective40INK4Summer Internship3/3Major Elective40INP2Practical Training2/2Major Elective40INO3Cloud Computing Practices3/3Computer Cours eMajor 	Major Elective  Major Computer Cours elective  Applications for Sensors  Major Sensors  Major Computer Cours elective		40INI5	Field Practice(1)	12/12			40INO8		3/3	ter Cours
Major Elective 40INO3 Cloud Computing Practices 3/3 Computer Cours e Elective 40INP6 Practices of Extended Reality Applications 3/3 Computer Cours e Elective 40INP6 Practices of Extended Reality Applications of Elective 40INP1 Practice of XR Programming 3/3 Computer Cours e Elective Elective 40INP1 Practice of XR Programming 3/3 Computer Cours	Major Elective  Applications for Sensors  Major Sensors  Major Computer Cours e Elective  Applications for Sensors  Major Computer Cours e Sensors  Major Elective  A0INP6  Practices of Extended Reality Applications	Major Slective	40 I NK4	Summer Internship	3/3		Major Elective	40 I NP2	Practical Training	2/2	
Major Elective 40 INO6 Theory and Applications for Sensors 2/3/3 Computer Cours e 40 INP1 Practice of XR Programming 3/3 Computer Cours e	Major Elective 40 INO6 Theory and Applications for Sensors 3/3 Computer Cours e Cours e Sensors 3/3 Computer Cours e Sensors 1/2 Cours	Major	40 I NO3	Cloud Computing Practices	3/3	ter Cours	Major	40INP6		3/3	ter Cours
Major Elective 40INP1 Practice of XR Programming 3/3 Computer Cours	Major 40INP1 Practice of XR 3/3 Compu		40 I NO6	Applications for	3/3	Compu ter Cours					
			40 I NP1		3/3	Compu ter Cours					

37 Credits, 41 Hours 29 Credits, 31 Hours