Department of Industrial Engineering and Management Curriculum Requirements for Enrollees in the Academic Year 112 (Fall 2023)

Program	Four-year technical co	ollege program of the I	Day Division						
Group	lone								
Class Type	Regular Class	legular Class							
Special Program	None								
	Department Curriculum 112.04.14								
	College Curriculum	112. 05. 17							
Curriculum Committee	University Curriculum	112. 05. 29							
	Academic Affairs 112.05.29								
Graduation Credits /Study Duration	At least 128 credits 1	t least 128 credits required (normally 4 years).							
Credit Load per Semester		and 2 must take no few Students in Grades 3 a ts per semester.							
Required and Elective	Credits	Subject Category	Cre	dits					
		General Education	22 Cr	redits					
Required	89 Credits	Major Required	67 Cr	redits					
		College Major	0 Cr	edits					
DI	20.0	General Education	8 Cr	edits					
Elective	39 Credits	Major Elective	31 Cr	redits					
Graduation	Course Title	Descri	iption	Regulations/Notes					
Cross-disciplinary Credit Courses	Cross-disciplinary Program Learning(0/1)	Students must complete credit program offered college before graduat credit program from ar the approval of their	1. Regulations for the Establishment of Credit Programs						
Cross-disciplinary Credit Program	Digital Technology Micro- Credit Program Learning(0/1)	A Micro-Credit Program Technology offered by respective college	2. Guidelines for the Implementation of Interdisciplinary (Micro) Credit Programs						
English Certificate	English Proficiency Test(0/2)	Students must pass the Proficiency Test (GEPT equivalent) during the	1. Principles for the Implementation of English Courses and English Proficiency Graduation Requirements						
Practical Project	Practical Project(2/2)	According to the regul department	1. Regulations for the Implementation of "Practical Projects, Special Projects, Research Projects, and Graduation Design" 2. Regulations of Each Department						
Professional	Professional	Students must obtain a	Regulations of Each						
Other Regulations									

"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

「G03」: English Proficiency Certificate

「G04」: Practical Project

「G05」: Professional Certificate

Course Remark:

「T02」: EMI Courses (English-Medium Instruction) are offered as scheduled during the semester

Remarks

semester.

		semester.								
First Semester, First Year					Second Semester, First Year					
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes	
General Education	496106	Chinese(1)	2/2		General Education	496206	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	490106	Community Service and Learning(1)	0/1		General Education	490206	Community Service and Learning(2)	0/1		
General Education	497A00		2/2		General Education	497B00		2/2		
Major Required	406497	Physics	3/3		Major Required	406431	Calculus (II)	3/3		
Major Required	406496	Calculus (I)	3/3		Major Required	435605	Calculus (2)	3/3		
Major Required	406058	Computational Thinking and Creative Programming	2/3	Compu ter Cours e	Major Required	406007	Programming Language	2/3	Compu ter Cours e	
Major Required	406421	Industrial Engineering and Management	3/3		Major Required	406424	Material Management	3/3		
Major Required 406441	406441	Manufacturing Processes	2/3	T02	Major Required	406444	Computer Aided Graphics	1/3	Compu ter Cours e	
					Major Required	406525	Introduction of Measurement	1/3		
	20	0 114 04 11				20	0. 1.4 0.7 H			
		Credits, 24 Hours					Credits, 27 Hours			
0	1	emester, Second Year	Credits	N-+	0		Semester, Second Year	Credits	N-+	
Course	Course	Course Name	Hours	Notes	Course	Course	Course Name	Hours	Notes	
General Education	496506	Human Rights and Legal	2/2		General Education	496306	Practical Chinese	2/2		
General Education	492003	English(III)	2/2		General Education	496406	Contemporary Taiwan and Moder World	2/2		
General Education	4913C0	physical education (3)	1/2		General Education	492004	English (IV)	2/2		
General Education	497C00		2/2		General Education	4913D0	physical education (4)	1/2		
Major Required	406008	Internet Application	2/3	Compu ter Cours e	General Education Liberal Arts Elective	497D00		2/2		
Major Required	406403	Statistics (I)	3/3		Major Required	406516	Statistics (II)	3/4		
Major Required	406422	Work Study	3/4		Major Required	406519	Database Management System	1/3	Compu ter Cours e	
Major Required	406518	Economics	2/3		Major Required	406801	Accounting	2/3		
Major Elective	406923	Ethics and Professional Ethics	2/2		Major Elective	406914	Career Consulting	2/2		
Major Elective	406925	Organizational Behavior	2/2		Major Elective	406922	The Training of Creative Thinking	2/2		
Major Elective	406940	Managing English Introduction	2/2		Major Elective	406981	Intelligent robot application	3/3		
Major Elective	406993	Material Requirement Planning	3/3		Major Elective	406998	Occupational safety and hygiene	3/3		
ETCCTIVC		Planning			ETCCTIVC		and hygiene			

	00	Cardita 20 H				25 (Credits, 30 Hours			
26 Credits, 30 Hours First Semester, Third Year					25 Credits, 30 Hours Second Semester, Third Year					
Course	Course	Course Name	Credits	Notes	Course	Course	Course Name	Credits	Notes	
Major	406425	Quality Management	Hours 3/4		Major	406432	Human Factors	Hours 3/3		
Required Major			2/3	Compu	Required Major		Engineering	3/4	T02	
Required	406461	System Analysis and Design	2/3	ter Cours e	Required	406505	Production and Operations Management	3/4	102	
Major Required	406501	Engineering Economy	3/3		Major Required	406529	Enterprise Resource Planning	3/3		
Major Required	406512	Operations Research	3/3		Major Elective	406824	Quality Assurance	3/3		
Major Elective	406806	Reliability Engineering	3/3		Major Elective	406842	Computer Aided Manufacturing	3/3		
Major Elective	406898	Management Information Systems	3/3		Major Elective	406895	Industry Analysis	3/3		
Major Elective	406908	Commerce Automation	3/3		Major Elective	406915	Multimedia Applications	3/3	Compu ter Cours	
Major Elective	406921	Marketing Management	3/3		Major Elective	406919	Logistics Management	3/3		
Major Elective	406926	Distribution Industry Management	3/3		Major Elective	406927	Service Management	2/2		
Major Elective	406929	Information Analysis and Application	2/3	Compu ter Cours e	Major Elective	406936	Finance Management	3/3		
Major Elective	406939	Cost Accounting	2/2		Major Elective	406982	Regression analysis application	3/3		
Major Elective	406996	Industrial Engineering Practice Internship(1)	4/8		Major Elective	406997	Industrial Engineering Practice Internship(2)	4/8		
					Major Elective	406999	Operational Research Application	2/2		
	34 (Credits, 41 Hours				38 (Credits, 43 Hours			
	First S	emester, Fourth Year				Second S	emester, Fourth Year			
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes	
General Education	492106	English Proficiency qualification	0/2	G03	College Major	40TND9	Interdisciplinary program learning	0/1	G01	
Major Required	406427	Facilities Planning	3/4		College Major Required	40TNF1	Interdisciplinary Micro Course Program for Engineering Digital Technology	0/1	G02	
Major Required	406531	Practical Project	2/2	G04	Major Required	406504	Professional Certificate Verification	0/2	G05	
Major Elective	406830	Big Data Analysis Technology and Application	3/3		Major Elective	406701	Lean Production Management	3/3		
Major Elective	406896	Industrial Engineering Practice Internship(3)	4/8		Major Elective	406828	Total Quality Management	3/3		
Major Elective	406916	Production Automation	3/3		Major Elective	406829	Project Management	3/3		
Major Elective	406920	E-Commerce	3/3		Major Elective	406831	Smart Manufacturing	3/3		
Major Elective	406928	Investment and Finance	3/3		Major Elective	406843	Computer Integrated Manufacturing	3/3		
Major Elective	406930	Enterprise Resource Planning System	3/3		Major Elective	406889	Management of Case Study	3/3		
Major Elective	406932	Supply Chain Management	3/3		Major Elective	406897	Industrial Engineering Practice Internship(4)	4/8		

Major Elective	406938	Introduction of Operation Risk Management	3/3		Major Elective	406909	Human Resources Management	3/3	
Major Elective	406946	Business Operations Simulation	3/3		Major Elective	406937	Strategy Management	3/3	
Major Elective	406961	Semester Internship (I)	9/18		Major Elective	406941	ERP Application for Manufacturing Module	3/3	
Major Elective	406978	Quality Engineering	3/3		Major Elective	406966	Semester Internship (II)	9/9	
Major Elective	406983	System simulation application	3/3		Major Elective	406979	Introduction to Fuzzy Theory	3/3	
Major Elective	406994	Summer off-campus internship	3/3						
51 Credits, 67 Hours			43 Credits, 51 Hours						