Department of Industrial Engineering and Management Curriculum Requirements for Enrollees in the Academic Year 114 (Fall 2025)

Program	Four-year technical co	ollege program of the I	Day Division						
Group	None								
Class Type	Regular Class								
Special Program	None								
	Department Curriculum	114. 04. 24							
	College Curriculum 114.05.16								
Curriculum Committee	University Curriculum 114.06.09								
	Academic Affairs 114.06.09								
Graduation Credits /Study Duration	At least 128 credits i	required (normally 4 ye	ears).						
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	19 Cr	redits					
Required	89 Credits	Major Required	70 Cr	redits					
		College Major	0 Cr	redits					
Planting	20 Caralita	General Education	tion 8 Credits						
Elective	39 Credits	Major Elective	31 Credits						
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 an the approval of their	d by their respective tion, or a (micro) nother college with	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	n in Digital	2. Guidelines for the Implementation of Interdisciplinary (Micro) Credit Programs					
English Certificate	English Proficiency Test(0/2)	Students must pass the Proficiency Test (GEP) equivalent) during the	「Basic Level (or	1. Principles for the Implementation of English Courses and English Proficiency Graduation Requirements					
Practical Project	Practical Project(2/2)	According to the regularization department	lations of each	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	at least one	Regulations of Each					
Other Regulations	工業工程實務實習(一)、	(二)、(三)、(四)為經本	条碩士班導師認定應補修	《之本系大學部專業課程》					

"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

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	First S	Semester, First Year				Second S	Semester, First Year		
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes
General Education	496806	Literary Appreciation and Expression	2/2		General Education	496906	Practical Chinese	2/2	
General Education	492001		2/2		General Education	492002	English (II)	2/2	
General Education	4912C0	Physical Education(1)	2/2		General Education	4912D0	Physical Education(2)	2/2	
General Education	490306	Community Service & Learning(1)	0.5/1		General Education	490406	Community Service & Learning(2)	0.5/1	
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	406090	Programming Language	3/3	Compu ter Cours
Major Required	406089	Computational Thinking and Creative Programming	3/3	Compu ter Cours e	Major Required	406424	Material Management	3/3	
Major Required	406421	Industrial Engineering and Management	3/3		Major Required	406533	Introduction of Measurement	3/3	
Major Required	406532	Manufacturing Processes	3/3		Major Required	406534	Computer Aided Drawing	3/3	
	23. 5	Credits, 24 Hours				23. 5	Credits, 24 Hours		
	First S	emester, Second Year				Second S	Semester, Second Year		
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Note
General Education	496506	Human Rights and Legal	2/2		General Education	496406	Contemporary Taiwan and Moder World	2/2	
General Education	492003	English(III)	2/2		General Education	497D00		2/2	
General Education	497C00		2/2		Major Required	406404	Statistics (II)	3/3	
Major Required	406536	Work Study and Practice	1/1		Major Required	406501	Engineering Economy	3/3	
Major Required	406092	Internet and AI Applications	3/3	Compu ter Cours e	Major Required	406537	Database Management System	3/3	T02
Major Required	406403	Statistics (I)	3/3		Major Elective	406800	Accounting	3/3	
Major Required	406535	Work Study	3/3		Major Elective	406802	English for Industrial Engineering	3/3	T02
Major Required	406091	Application of Internet	3/3	Compu ter Cours e	Major Elective	406914	Career Consulting	2/2	
Major Elective	406803	Economics	3/3		Major Elective	406922	The Training of Creative Thinking	2/2	
Major Elective	406923	Ethics and Professional Ethics	2/2		Major Elective	406981	Intelligent robot application	3/3	
Major Elective	406925	Organizational Behavior	2/2		Major Elective	406998	Occupational safety and hygiene	3/3	
Major Elective	406940	Managing English Introduction	2/2						

Major Elective	406993	Material Requirement Planning	3/3							
	31 Credits, 31 Hours					29 Credits, 29 Hours				
	First S	Semester, Third Year			Second Semester, Third Year					
Course	Course	Course Name	Credits	Notes	Course	Course	Course Name	Credits	Notes	
Major Required	406512	Operations Research	Hours 3/3		Major Required	406529	Enterprise Resource Planning	Hours 3/3		
Major Required	406538	Quality Management	3/3		Major Required	406540	Production and Operations Management	3/3	T02	
Major Required	406539	Quality Management and Practice	1/1		Major Elective	406824	Quality Assurance	3/3		
Major Elective	406806	Reliability Engineering	3/3		Major Elective	406825	Human Factors Engineering	3/3		
Major Elective	406809	System Analysis and Design	3/3	Compu ter Cours e	Major Elective	406842	Computer Aided Manufacturing	3/3		
Major Elective	406867	Information Analysis and Application	3/3	ŭ	Major Elective	406895	Industry Analysis	3/3		
Major Elective	406898	Management Information Systems	3/3		Major Elective	406915	Multimedia Applications	3/3	Compu ter Cours e	
Major Elective	406908	Commerce Automation	3/3		Major Elective	406919	Logistics Management	3/3		
Major Elective	406921	Marketing Management	3/3		Major Elective	406927	Service Management	2/2		
Major Elective	406926	Distribution Industry Management	3/3		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, 38 Hours				38 (Credits, 42 Hours			
	First Se	emester, Fourth Year		1	Second Semester, 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	406531	Practical Project	2/2	G04	College Major Required	40TNF1	Interdisciplinary Micro Course Program for Engineering Digital Technology	0/1	G02	
Major Required	406541	Facilities Planning	3/3		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	406832	Responsible consumption and production	3/3		
Major Elective	406930	Enterprise Resource Planning System	3/3		Major Elective	406843	Computer Integrated Manufacturing	3/3		

Major Elective	406932	Supply Chain Management	3/3	Major Elective	406889	Management of Case Study	3/3
Major Elective	406938	Introduction of Operation Risk Management	3/3	Major Elective	406897	Industrial Engineering Practice Internship(4)	4/8
Major Elective	406946	Business Operations Simulation	3/3	Major Elective	406909	Human Resources Management	3/3
Major Elective	406961	Semester Internship (9/18	Major Elective	406937	Strategy Management	3/3
Major Elective	406978	Quality Engineering	3/3	Major Elective	406941	ERP Application for Manufacturing Module	3/3
Major Elective	406983	System simulation application	3/3	Major Elective	406966	Semester Internship (II)	9/9
Major Elective	406994	Summer off-campus internship	3/3	Major Elective	406979	Introduction to Fuzzy Theory	3/3
	51 (Credits, 66 Hours			46 (Credits, 54 Hours	