

# Curriculum of International Master Program, 2024

## Department of Industrial Engineering and Management, Cheng Shiu University

School system	Master																
Class	International Master Program																
Course Meeting	113.04.19			系課程及選課輔導委員會議通過													
	113.05.23			院課程委員會議通過													
	113.06.03			校課程委員會議通過													
	113.06.03			教務會議通過													
The number of credits for graduation / Study period	Master's students need to pass a minimum of 30 required credits (The study period is 1 to 4 years)																
Required course / Elective course	Course credits	Related Legislation / Remark															
Required course	9 credits	Advanced Production and Operations Management/ 3 credits, Thesis/ 6 credits, Seminar/ 0 credit in four semesters, Research Methods/ 0 credit															
Elective course	21 credits	those who do not reach B1 in the Chinese Test should take the Chinese Teaching course.															
Number of credits taken each semester	The maximum of 18 credits each semester. Please do not less than 6 credits each semester in the first academic year.																
Remark	N/A																
1 <sup>st</sup> Fall				1 <sup>st</sup> Spring													
Course Type	Course Code	Course Title	Credits/ Hours	Course Type	Course Code	Course Title	Credits/ Hours										
Required Course	M06A01	Seminar (I)	0/2	Required Course	M06A02	Seminar (II)	0/2										
Required Course	M06A03	Advanced Production and Operations Management	3/3	Required Course	M06A05	Research Methods	0/2										
Required Courses	M06A16	Volunteer Services and Social Responsibility (I)	0/1	Required Courses	M06A17	Volunteer Services and Social Responsibility (II)	0/1										
2 <sup>nd</sup> Fall				2 <sup>nd</sup> Spring													
Course Type	Course Code	Course Title	Credits/ Hours	Course Type	Course Code	Course Title	Credits/ Hours										
Required Course	M06A03	Seminar (III)	0/2	Required Course	M06A04	Seminar (IV)	0/2										
Required Courses	M06A18	Volunteer Services and Social Responsibility (III)	0/1	Required Courses	M06A19	Volunteer Services and Social Responsibility (IV)	0/1										
				Required Course	M06B03	Thesis	6 Credits										
Fall				Spring													
Course Type	Course Code	Course Title	Credits/ Hours	Course Type	Course Code	Course Title	Credits/ Hours										
Language	M06A12	Chinese Teaching (I)	2/2	Language	M06A30	Advanced Chinese Conversation	2/2										
Language	M06A14	English for Science and Tech (I)	2/2	Language	M06A15	English for Science and Tech (II)	2/2										

Operation Management field Fall				Operation Management field Spring			
Course Type	Course Code	Course Title	Credits/ Hours	Course Type	Course Code	Course Title	Credits/ Hours
Elective Course	M06N08	Advanced Quality Management	3/3	Elective Course	M06N15	Manufacturing Management	3/3
Elective Course	M06N56	International Supply Chain management	3/3	Elective Course	M06N13	Inventory Management	3/3
Elective Course	M06N05	Advanced Engineering Economy	3/3	Elective Course	M06N57	Special Theory of Human Factors Engineering	3/3
Elective Course	M06N40	Scheduling Theory and Strategy	3/3	Elective Course	M06N19	Six Sigma	3/3
Elective Course	M06N52	Seminars of Project Management	3/3	Elective Course	M06N54	Special Theory of Reliability Engineering	3/3
Elective Course	M06N53	Special Theory of Human Resource Management	3/3	Elective Course	M06N43	Automatic Production System	3/3
Elective Course	M06N23	Marketing Strategy	3/3	Elective Course	M06N28	Performance Evaluation and Management	3/3
Elective Course	M06N60	The Application of AIot	3/3	Elective Course	M06N44	Operation Risk Management	3/3
Elective Course	M06N62	IoT Application	3/3	Elective Course	M06N51	Seminars of Industrial Management	3/3
Elective Course	M06N20	Industrial Management and Analysis	3/3	Elective Course	M06N66	Reverse Engineering and CAM	3/3
Elective Course	M06N65	Advanced Material Science	3/3	Elective Course	M06N63	SMEs & Entrepreneurship	3/3
Elective Course	M06N64	New Product Development Management	3/3	Elective Course	M06N70	Consumer Behavior	3/3
				Elective Course	M06N71	International Business Management	3/3
Decision Analysis field Fall				Decision Analysis field Spring			
Course Type	Course Code	Course Title	Credits/ Hours	Course Type	Course Code	Course Title	Credits/ Hours
Elective Course	M06N49	Statistical Data Analysis	3/3	Elective Course	M06N09	Design of Experiments	3/3
Elective Course	M06N55	Special Theory of Operations Research	3/3	Elective Course	M06N03	Fuzzy Theory and Applications	3/3
Elective Course	M06N01	Stochastic Model and Application	3/3	Elective Course	M06N24	Multivariate Analysis	3/3
Elective Course	M06N38	Creative Thinking	3/3	Elective Course	M06N41	Data Mining	3/3
Elective Course	M06N30	Regression Analysis	3/3	Elective Course	M06N42	Multiple Objective Programming	3/3
Elective Course	M06N34	System Simulation	3/3	Elective Course	M06N50	Theory of Inventive Problem Solving	3/3
Elective Course	M06N68	Taguchi Method Application	3/3				