

## 正修科技大學 工業工程與管理系 112 學年度入學新生課程標準

<b>學制</b>		碩士班					
<b>特殊專班</b>		外國學生專班					
<b>課程會議</b>		112.04.14		系課程及選課輔導委員會議通過			
		112.05.17		院課程委員會議通過			
		112.05.29		校課程委員會議通過			
		112.05.29		教務會議通過			
<b>畢業應修學分數/修業年限</b>		碩士班：至少須修滿 30 學分 (修業期限以一至四年為限)					
<b>必修/選修</b>		<b>學分數</b>		<b>相關辦法/備註</b>			
<b>必修</b>		9 學分		碩士班研究生修業規定：含高等生產與作業管理 3 學分、論文 6 學分、書報討論 0 學分四學期、研究方法 0 學分一學期。			
<b>選修</b>		21 學分		1. 選修課程分為二個領域，高等品質管理與統計資料分析為必選核心課程。 2. 多益未達 375 分者應修科技英文(一)、多益未達 550 者應修科技英文(二)；華測成績未達 B1 級者應修華語文課程。			
<b>每學期所修學分數</b>		每學期修習課程最多 18 學分，至少 3 學分，但第一學年每學期不得少於 6 學分。					
<b>備註</b>		無					
<b>一年級上學期</b>				<b>一年級下學期</b>			
科目類別	科目代碼	科目名稱	學分/時數	科目類別	科目代碼	科目名稱	學分/時數
共同必修	M06A01	書報討論(一)	0/2	共同必修	M06A02	書報討論(二)	0/2
共同必修	M06403	高等生產與作業管理	3/3	共同必修	M06A05	研究方法	0/2
<b>二年級上學期</b>				<b>二年級下學期</b>			
科目類別	科目代碼	科目名稱	學分/時數	科目類別	科目代碼	科目名稱	學分/時數
共同必修	M06A03	書報討論(三)	0/2	共同必修	M06A04	書報討論(四)	0/2
				共同必修	M06B03	論文	6 學分
<b>語文上學期</b>				<b>語文下學期</b>			
科目類別	科目代碼	科目名稱	學分/時數	科目類別	科目代碼	科目名稱	學分/時數
語文	M06A12	華語文教學(一)	2/2	語文	M06A13	華語文教學(二)	2/2
語文	M06A14	科技英文(一)	2/2	語文	M06A15	科技英文(二)	2/2
<b>作業管理領域上學期</b>				<b>作業管理領域下學期</b>			
科目類別	科目代碼	科目名稱	學分/時數	科目類別	科目代碼	科目名稱	學分/時數
專業選修	M06N08	高等品質管理	3/3	專業選修	M06N15	製造管理	3/3
專業選修	M06N56	國際供應鏈管理	3/3	專業選修	M06N13	存貨管理	3/3
專業選修	M06N05	高等工程經濟	3/3	專業選修	M06N57	人因工程特論	3/3
專業選修	M06N40	排程理論與策略	3/3	專業選修	M06N19	六標準差	3/3
專業選修	M06N52	專案管理專題	3/3	專業選修	M06N54	可靠度工程特論	3/3
專業選修	M06N53	人力資源管理特論	3/3	專業選修	M06N43	自動化生產系統	3/3
專業選修	M06N23	行銷策略	3/3	專業選修	M06N28	績效評估與管理	3/3
專業選修	M06N60	智慧聯網應用技術	3/3	專業選修	M06N44	作業風險管理	3/3
專業選修	M06N62	物聯網應用實務	3/3	專業選修	M06N51	產業實務專題	3/3
專業選修	M06N20	產業經營分析	3/3	專業選修	M06N66	逆向工程與電腦整合製造	3/3
專業選修	M06N65	高等材料科學	3/3	專業選修	M06N63	中小企業與創業管理	3/3
專業選修	M06N69	行銷管理專題研討	3/3	專業選修	M06N70	消費者行為	3/3
專業選修	M06N64	新產品發展管理	3/3	專業選修	M06N71	國際企業管理	3/3
<b>決策分析領域上學期</b>				<b>決策分析領域下學期</b>			
科目類別	科目代碼	科目名稱	學分/時數	科目類別	科目代碼	科目名稱	學分/時數
專業選修	M06N49	統計資料分析	3/3	專業選修	M06N09	實驗設計	3/3
專業選修	M06N55	作業研究特論	3/3	專業選修	M06N03	模糊理論與應用	3/3
專業選修	M06N01	隨機模式與應用	3/3	專業選修	M06N24	多變量分析	3/3

專業選修	M06N38	創意思考	3/3	專業選修	M06N41	資料探勘	3/3
專業選修	M06N30	迴歸分析	3/3	專業選修	M06N42	多目標規劃	3/3
專業選修	M06N34	系統模擬	3/3	專業選修	M06N50	萃思方法	3/3
專業選修	M06N68	田口方法應用	3/3	專業選修			

# Curriculum of International Master Program, 2023

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

<b>School system</b>		Master					
<b>Class</b>		International Master Program					
<b>Course setting</b>		112.04.14		系課程及選課輔導委員會會議通過			
		112.05.17		院課程委員會會議通過			
		112.05.29		校課程委員會會議通過			
		112.05.29		教務會議通過			
<b>The number of required credits for graduation / Study period</b>		Master's students must earn a minimum of 30 required credits(The study period is 1 to 4 years)					
<b>Required courses / Elective courses</b>		<b>Course credits</b>	<b>Related Legislation / Remark</b>				
<b>Required courses</b>		9 credits	Advanced Production and Operations Management/ 3 credits, Thesis/ 6 credits, Seminar/ 0 credit in four semesters, Research Methods/ 0 credit				
<b>Elective courses</b>		21 credits	<p>1. Elective courses are divided into two fields. 「Advanced Quality Management」 and 「Statistical Data Analysis」 are core courses, students have to complete those two courses in order to graduate.</p> <p>2. Students with TOEIC below 375 should take the Scientific English (I), and those with TOEIC below 550 should take the Scientific English (II); those who do not reach B1 in the Chinese Test should take the Chinese Teaching courses.</p>				
<b>Number of credits taken per semester</b>		The maximum of 18 credits per semester, with a minimum of 3 credits, but the first academic year not less than 6 credits per semester.					
<b>Remark</b>		N/A					
<b>1<sup>st</sup> Fall</b>				<b>1<sup>st</sup> Spring</b>			
Course Type	Course Code	Course Title	Credits/Hours	Course Type	Course Code	Course Title	Credits/Hours
Required Courses	M06A01	Seminar (I)	0/2	Required Courses	M06A02	Seminar (II)	0/2
Required Courses	M06403	Advanced Production and Operations Management	3/3	Required Courses	M06A05	Research Methods	0/2
<b>2<sup>nd</sup> Fall</b>				<b>2<sup>nd</sup> Spring</b>			
Course Type	Course Code	Course Title	Credits/Hours	Course Type	Course Code	Course Title	Credits/Hours
Required Courses	M06A03	Seminar (III)	0/2	Required Courses	M06A04	Seminar (IV)	0/2
				Required Courses	M06B03	Thesis	6 Credits
<b>Fall</b>				<b>Spring</b>			
Course Type	Course Code	Course Title	Credits/Hours	Course Type	Course Code	Course Title	Credits/Hours
Language	M06A12	Chinese Teaching (I)	2/2	Language	M06A13	Chinese Teaching (II)	2/2
Language	M06A14	English for Science and Tech (I)	2/2	Language	M06A15	English for Science and Tech (II)	2/2
<b>Operation Management field Fall</b>				<b>Operation Management field Spring</b>			
Course Type	Course Code	Course Title	Credits/Hours	Course Type	Course Code	Course Title	Credits/Hours
Elective Courses	M06N08	Advanced Quality Management	3/3	Elective Courses	M06N15	Manufacturing Management	3/3
Elective Courses	M06N56	International Supply Chain management	3/3	Elective Courses	M06N13	Inventory Management	3/3
Elective Courses	M06N05	Advanced Engineering Economy	3/3	Elective Courses	M06N57	Special Theory of Human Factors Engineering	3/3
Elective Courses	M06N40	Scheduling Theory and Strategy	3/3	Elective Courses	M06N19	Six Sigma	3/3
Elective Courses	M06N52	Seminars of Project Management	3/3	Elective Courses	M06N54	Special Theory of Reliability Engineering	3/3

Elective Courses	M06N53	Special Theory of Human Resource Management	3/3	Elective Courses	M06N43	Automatic Production System	3/3
Elective Courses	M06N23	Marketing Strategy	3/3	Elective Courses	M06N28	Performance Evaluation and Management	3/3
Elective Courses	M06N60	The Application of AIot	3/3	Elective Courses	M06N44	Operation Risk Management	3/3
Elective Courses	M06N62	IoT Application	3/3	Elective Courses	M06N51	Seminars of Industrial Management	3/3
Elective Courses	M06N20	Industrial Management and Analysis	3/3	Elective Courses	M06N66	Reverse Engineering and CAM	3/3
Elective Courses	M06N65	Advanced Material Science	3/3	Elective Courses	M06N63	SMEs & Entrepreneurship	3/3
Elective Courses	M06N69	Seminars of Marketing Management	3/3	Elective Courses	M06N70	Consumer Behavior	3/3
Elective Courses	M06N64	New Product Development Management	3/3	Elective Courses	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 Courses	M06N49	Statistical Data Analysis	3/3	Elective Courses	M06N09	Design of Experiments	3/3
Elective Courses	M06N55	Special Theory of Operations Research	3/3	Elective Courses	M06N03	Fuzzy Theory and Applications	3/3
Elective Courses	M06N01	Stochastic Model and Application	3/3	Elective Courses	M06N24	Multivariate Analysis	3/3
Elective Courses	M06N38	Creative Thinking	3/3	Elective Courses	M06N41	Data Mining	3/3
Elective Courses	M06N30	Regression Analysis	3/3	Elective Courses	M06N42	Multiple Objective Programming	3/3
Elective Courses	M06N34	System Simulation	3/3	Elective Courses	M06N50	Theory of Inventive Problem Solving	3/3
Elective Courses	M06N68	Taguchi Method Application	3/3				