### I-SHOU UNIVERSITY Department of Civil Engineering

### Curriculum for Master's Students Admitted in Academic Year 2024

### \*本系總畢業學分數為 38 學分,分下列三項:

#### **Required Credits for Graduation: 38 Credits**

- 1. 專業必修 14 學分 Required Professional Courses 14 Credits
- 2. 專業選修 24 學分 Elective Professional Courses 24 Credits
- 3. 總結性課程-碩士論文必修 <u>0</u> 學分 Thesis: required courses without credits (capstone courses) 0 Credit

#### 備註 Note:

- 1. 專業選修 24 學分中,至多可選修外所課程 6 學分,此 6 學分選修課須經指導老師同意後,本 系方承認為畢業學分。
- 1. Among the 24 credits of elective professional courses, a maximum of 6 credits can be taken from other colleges. The 6 credits of elective courses must be approved by the instructor, and the department will recognize them as graduation credits.
- 2. 課程規劃為配合學生需求,得增減開設課程。
- 2. Lesson Planning Lessons may be added or subtracted to meet student needs.

# 碩一課程表(113) First Year (2024)

Code	類別	課程代碼	課程名稱 Subject	上學期	下學期	必/選修	備註
Required Professional Courses	Category	Code	WATER AND STOLET	Fall	Spring	(C/E)	Remark
MooRola	Required Professional	M06011	專題討論(一) Special Topics Discussion ( I )	2		必/ C	
M06304		M06021	專題討論(二) Special Topics Discussion (II)		2	必/ C	
M06706		M06M01	學術研究倫理 Research Ethics		0	必/ C	
M06432		M06304	施工安全管理 Construction Safety Management	3	3	必/ C	
M06738		M06706	高等工程數學 Advanced Engineering Mathematics	3		必/ C	
M06427   智慧運輸系統   Intelligent Transportation System   3		M06432	結構動力學 Dynamics of Structures	3		必/ C	
上 木材料品質保證 Quality Assurance of Civil Engineering Materials   1		M06738	高等土壤力學 Advanced Soil Mechanics	3	3	必/ C	
M06782   Engineering Materials   3   1   1   1   1   1   1   1   1   1		M06427	智慧運輸系統 Intelligent Transportation System	3	3		
Engineering Materials		M06792	土木材料品質保證 Quality Assurance of Civil	3			
M06414		W100782	Engineering Materials				
M06146		M06150	工程管理實務議題 Seminar On Engineering	3	3		
M06771		M06414	永續與環境議題 Sustainable and Environmental Issues	3	3		
M06147		M06146	高等流體力學 Advanced fluid mechanics	3	3		
No		M06771	土木防災工程 Disaster Prevention in Civil Engineering	3	3		
Mode		M06147	工程計算方法 Engineering computation	3	3		
Methods   M06148   研究方法論 Research methodology   3   Methods   M06148   研究方法論 Research methodology   3   Methods   M06713   彈性力學 Theory of Elasticity   3   M06436   有限元素法 Finite Element Method   3   M06714   高等基礎工程 Advanced Foundation Engineering   3   M06780   管理科學 Management Science   3   M06780   管理科學 Management Science   3   M06718   Study   M06722   水及廢水處理技術 Water and Wastewater Treatment   3   M06708   土壤及地下水整治 Soil and Ground Water   3   M06708   基壤及地下水整治 Soil and Ground Water   3   M06023   專案管理 Construction Project Management   3   高等鋼筋混凝土設計 Advanced Reinforced Concrete   Design   M06033   高等鋼結構設計 Advanced Steel Structural Design   3   M06795   M06795   Techniques of strengthen   3   M06795   Techniques of strengthen   3   M06426   建築資訊模型 Building Information Modeling70   3   M06149   工程經濟學 Engineering Economics   3   M06149   工程經濟學 Engineering Economics   3		M06013	數據分析與統計方法 Data Analysis and Statistical				
Elective Professional Courses       M06713       彈性力學 Theory of Elasticity       3         M06436       有限元素法 Finite Element Method       3         M06714       高等基礎工程 Advanced Foundation Engineering       3         M06780       管理科學 Management Science       3         M06718       營建法規與案例分析 Construction Law and Case Study       3         M06722       水及廢水處理技術 Water and Wastewater Treatment       3         M06708       土壤及地下水整治 Soil and Ground Water       3         M06702       專案管理 Construction Project Management       3         高等鋼筋混凝土設計 Advanced Reinforced Concrete Design       3         M06729       Advanced Steel Structural Design       3         基構耐震評估與補強 Seismic Assessment and Retrofit Techniques of strengthen       3         M06426       建築資訊模型 Building Information Modeling70       3         M06149       工程經濟學 Engineering Economics       3			Methods	3	3		
M06436   有限元素法 Finite Element Method   3	專業選修	M06148	研究方法論 Research methodology	3	3		
Courses       M06436 有限元素法 Finte Element Method       3         M06714       高等基礎工程 Advanced Foundation Engineering       3         M06780       管理科學 Management Science       3         M06718       夢建法規與案例分析 Construction Law and Case Study       3         M06722       水及廢水處理技術 Water and Wastewater Treatment       3         M06708       土壤及地下水整治 Soil and Ground Water       3         M06023       專案管理 Construction Project Management       3         高等鋼筋混凝土設計 Advanced Reinforced Concrete Design       3         M06729       当       3         M06033       高等鋼結構設計 Advanced Steel Structural Design       3         M06795       結構耐震評估與補強 Seismic Assessment and Retrofit Techniques of strengthen       3         M06426       建築資訊模型 Building Information Modeling70       3         M06149       工程經濟學 Engineering Economics       3		M06713	彈性力學 Theory of Elasticity	3	3		
M06780   管理科學 Management Science   3		M06436	有限元素法 Finite Element Method	3	3		
M06718		M06714	高等基礎工程 Advanced Foundation Engineering	3	3		
M06718Study3M06722水及廢水處理技術 Water and Wastewater Treatment3M06708土壤及地下水整治 Soil and Ground Water3M06023專案管理 Construction Project Management3高等鋼筋混凝土設計 Advanced Reinforced Concrete Design3M06729Design3M06033高等鋼結構設計 Advanced Steel Structural Design3結構耐震評估與補強 Seismic Assessment and Retrofit Techniques of strengthen3M06426建築資訊模型 Building Information Modeling703M06149工程經濟學 Engineering Economics3	_	M06780	管理科學 Management Science	3	3		
M06708土壤及地下水整治 Soil and Ground Water3M06023專案管理 Construction Project Management3M06729高等鋼筋混凝土設計 Advanced Reinforced Concrete Design3M06033高等鋼結構設計 Advanced Steel Structural Design3结構耐震評估與補強 Seismic Assessment and Retrofit Techniques of strengthen3M06426建築資訊模型 Building Information Modeling703M06149工程經濟學 Engineering Economics3		M06718		3	3		
M06023專案管理 Construction Project Management3M06729高等鋼筋混凝土設計 Advanced Reinforced Concrete Design3M06033高等鋼結構設計 Advanced Steel Structural Design3结構耐震評估與補強 Seismic Assessment and Retrofit Techniques of strengthen3M06795建築資訊模型 Building Information Modeling703M06149工程經濟學 Engineering Economics3		M06722	水及廢水處理技術 Water and Wastewater Treatment	3	3		
高等鋼筋混凝土設計 Advanced Reinforced Concrete Design  M06033 高等鋼結構設計 Advanced Steel Structural Design  结構耐震評估與補強 Seismic Assessment and Retrofit Techniques of strengthen  M06426 建築資訊模型 Building Information Modeling70  3  M06149 工程經濟學 Engineering Economics  3  3  4  M06795  3  M06149  Advanced Reinforced Concrete 3  3  4  M06033  Advanced Steel Structural Design 3  Advanced Reinforced Concrete 3  Advanced Reinforced C		M06708	土壤及地下水整治 Soil and Ground Water	3			
M06729Design3M06033高等鋼結構設計 Advanced Steel Structural Design3基構耐震評估與補強 Seismic Assessment and Retrofit Techniques of strengthen3M06795Techniques of strengthen3M06426建築資訊模型 Building Information Modeling703M06149工程經濟學 Engineering Economics3		M06023	專案管理 Construction Project Management	3			
M06033高等鋼結構設計 Advanced Steel Structural Design3M06795結構耐震評估與補強 Seismic Assessment and Retrofit Techniques of strengthen3M06426建築資訊模型 Building Information Modeling703M06149工程經濟學 Engineering Economics3		M06729		3			
M06795結構耐震評估與補強 Seismic Assessment and Retrofit Techniques of strengthen3M06426建築資訊模型 Building Information Modeling703M06149工程經濟學 Engineering Economics3			Design				
M06795Techniques of strengthen3M06426建築資訊模型 Building Information Modeling703M06149工程經濟學 Engineering Economics3	-	M06033	高等鋼結構設計 Advanced Steel Structural Design	3			
Techniques of strengthen  M06426 建築資訊模型 Building Information Modeling70 3  M06149 工程經濟學 Engineering Economics 3		M06795	結構耐震評估與補強 Seismic Assessment and Retrofit	2			
M06149 工程經濟學 Engineering Economics 3			Techniques of strengthen		,		
		M06426	建築資訊模型 Building Information Modeling70		3		
本學年度必修學分數 Total Required credits for this year 4		M06149	工程經濟學 Engineering Economics	3	3		
	本	本學年度必修學分數 Total Required credits for this year				4	

### 碩二課程表(114) Second Year (2025)

類別 Category	課程代碼 Code	課程名稱 Subject	上學期 Fall	下學期 Spring	必/選修 (C/E)	備註 Remark
	M06031	論文指導(一) Thesis(I)	3		必/ C	Core
專業必修	M06041	論文指導(二) Thesis(Ⅱ)		3	必/ C	Core
Required	M06761	專題討論(三) Special Topics Discussion(Ⅲ)	2		必/ C	Core
Professional Courses	M06762	專題討論(四) Special Topics Discussion(IV)		2	必/ C	
	M06M00	碩士論文 Master Thesis		0	必/ C	
	M06M01	學術研究倫理 Research Ethics		0	必/ C	
本學年度必修學分數 Total Required credits for this year					10	

### 碩三課程表(115) Third Year (2026)

類別 Category	課程代碼 Code	課程名稱 Subject	上學期 Fall	下學期 Spring	必/選修 (C/E)	備註 Remark
專業選修 Elective	M06753	論文指導(三) Thesis(III)	1		選/E	
Professional Courses	M06754	論文指導(四) Thesis(IV)			選/E	
本學年度必修學分數 Total Required credits for this year					0	

# 碩四課程表(116) Fourth Year (2027)

類別 Category	課程代碼 Code	課程名稱 Subject	上學期 Fall	下學期 Spring	必/選修 (C/E)	備註 Remark
	M06755	論文指導(五) Thesis(V)	1		選/E	
專業選修 Elective	M06756	論文指導(六) Thesis(VI)	1		選/E	
Professional Courses	M06741	論文指導(七) Thesis(VII)	1	1	選/E	
Courses	M06745	論文指導(八) Thesis(VIII)	1		選/E	
本學	本學年度必修學分數 Total Required credits for this year				0	