

中華大學 土木工程學系 112 學年度碩士班課程規劃表
Master Program in Department of Civil Engineering For 2023

111.12.01 111 學年度第 1 學期第 2 次系課規會議討論通過
Enacted at the 2nd Department Curriculum Committee of academic year 111, on December 01, 2022.
112.06.07 111 學年度第 2 學期第 2 次建築學院課規會議審議通過
Approved at the 2nd College Curriculum Committee of academic year 111, on June 07, 2023.
112.06.14 111 學年度第 4 次校課規會議審議通過
Approved at the 4th University Curriculum Committee academic year 111, on 14 June, 2023.

選別 Term	時序 Timing	上學期課程 First Semester	下學期課程 Second Semester	備註 Remark
	領域 field			
必修 課程 Required Courses	共同 Common	書報討論(0) Seminar	書報討論(0) Seminar	
		論文指導與研究(0) Thesis Seminar	論文指導與研究(0) Thesis Seminar	限碩二以上修習 Restricted to Master. 2 or above
選修 課程 Professional Elective Course	永續 Sustainable	工程技術史(3) History of Engineering Technology	永續工程專題(3) Seminar on Sustainable Engineering	
		綠色產業與技術(3) Green Industry and Technology	建築環境規劃專論 Monograph on Built Environment Planning	
	結構 Structure	非破壞性檢測科技(3) Non-Destructive Testing Technology	鋼結構原理與設計(3) Theory and Design of Steel Structure	
		房屋建築結構設計特論(3) Special Topics on Structural Design of House Architecture	結構安全分析與設計(3) Analysis and Design of Structural Safety	
		有限元素法(3) Finite Element Method	地震工程(3) Earthquake Engineering	
	大地 Geotechnical	大地工程與實務(3) Geotechnical Engineering and Practice	高等土壤力學(3) Advanced Soil Mechanics	
		地下水模式分析(3) Analytical Groundwater Modeling	邊坡穩定分析(3) Slope Stability Analysis	

選別 Term	時序 Timing	上學期課程 First Semester	下學期課程 Second Semester	備註 Remark
	領域 field			
選修 課程 Professional Elective Course	管理 Management	營建規劃與時程管理(3) Construction Planning and Schedule Management	施工品質管制探討(3) Construction Quality Management : Cases Study	
		AI 與數據分析(3) Introduction to AI and Data Analysis	專案管理(3) Project Management	
	工程 實務 Engineering Practice	地下化交通建設工程設計與施工實務(3) The Design and Construction of Major Transportation Projects by the Underground Methods	高架化交通建設工程設計與施工實務(3) The Design and Construction of Major Transportation Projects by The Elevated Methods	
		鐵路車站設計與施工實務(3) The Railway Stations Design and Cases Study	橋樑施工與檢測(3) Bridge Construction and Inspection	
		營造安全衛生管理(3) The Safety and Health Management of Construction	隧道工程與實務(3) Tunnel Engineering and Practice	
		營建工程實務探討(3) Construction Project Management: Cases Study	建築資訊模型應用(3) Implementation of Building Information Modeling	
學分小計 Credit Subtotal		36	39	

備註：

1. 畢業學分 24 學分(Graduation requirement : 24 Credits)。
2. 至少需修習兩學期之「書報討論」及兩學期之「論文指導與研究」。並至「台灣學術倫理教育資源中心」網站完成線上課程且通過測驗取得修課證明後始符合畢業資格(Graduate student need to take 2 semesters of Seminar, and at least 2 semesters of Thesis Seminar. And required to take the specific on-line thesis course on the website of Research Ethics in Education (<http://ethics.nctu.edu.tw>) and pass the exam and get a certificate)。
3. 其餘相關規定詳見「土木工程學系碩士班學生修業辦法」(Please refer to the Study Regulations for the Master's Program of the Department)。
4. 以上資料以當學期開課狀況為主(The number of courses offered each academic year will be adjusted according to the actual approved standards)。