慈濟大學資訊科技與管理學系　碩士班　113學年度課程地圖

Curriculum Map of 2024 Academic Year for Master's courses. Department of Information Technology and Management of Tzu Chi University

113學年入學課程表 Course schedule for Fall 2024	一年級 Year 1		二年級 Year 1		三年級 Year 3		教育目標 核心能力 Educational Goals Core Competencies	未來發展 Future Development
	上學期 1st Semester	下學期 2nd Semester	上學期 1st Semester	下學期 2nd Semester	上學期 1st Semester	下學期 2nd Semester		
必修科目 (16) Required subject (16)	研究方法(2) Research methodology(2) 專題研討(一)(1) Seminar I(1) 人工智慧(3) Artificialintelligence(3)	專題研討(二)(1) Seminar II (1) 智慧醫療大數據(3) Big data for intelligence medical(3) 碩士論文(一)(2) Thesis I(2)	碩士論文(二)(2) Thesis II(2)	碩士論文(三)(2) Thesis II(2)			**教育目標：** 培養學生具備整合性決策及研究能力，並能自主及獨立判斷的進階資訊管理專業人才。 **Educational Goals：** Cultivate students to be advanced information management professionals with integrated decision-making and research capabilities and the ability to make independent judgments. **核心能力：** 1、 培養學生具備資訊科技與管理之進階專業能力。 2、 培養學生具備研究思辨、問題分析與解決之能力。 3、 培養學生具備智慧科技跨領域專業之能力。 4、 培養學生具備人文關懷與國際觀之能力。 **Core Competencies：** 1. Cultivate students with advanced professional abilities in information technology and management. 2. Cultivate students' research thinking, problem analysis, and problem-solving abilities. 3. Cultivate students with cross-field professional abilities in smart technology. 4. Cultivate students' abilities in humanistic care and international perspective.	**升學：** 國內、外管理類博士班。 **Further education：** Domestic and foreign management doctoral programs. **就業：** 接軌產業界、學用合一。就業如全球慈濟志業體、醫院、公民營企業、管理公司等資訊相關行業。 **Employment：** Integrate with the industry and integrate learning and application. Employment opportunities include global Tzu Chi organizations, hospitals, private enterprises, management companies, and other information-related industries.
選修科目 (18) Elective subject (18)	統計(3) Statistics(3) 演算法(3) Algorithm(3) 進階統計分析(3) Advanced statistical analysis(3)	機器學習(3) Machine learning(3) 智慧醫療與照護(3) Smart health and care(3) 人工智慧物聯網(3) Artificial Intelligence of Things(3) 資料科學(3) Data science(3)	深度學習(3) Deep learning of artificial intelligence(3) 雲端運算與巨量資料處理(3) Cloud computing and big data processing(3) 人工智慧於精準醫療之應用(3) Application of artificial intelligence in precision medicine(3) 智慧穿戴式裝置(3) Smart wearable devices(3) 新一代網路技術(3) New generation network technology(3) 決策分析(3) Decision analysis(3)	資料探勘與視覺化分析(3) Data mining and visualization analysis(3) 大數據管理策略分析(3) Big data management for strategic analysis(3) 智慧醫療整合管理(3) Smart health integrated management(3) 醫學影像處理(3) Medical image processing(3) 老人福祉科技(3) Elderly welfare technology(3) 智慧長照管理(3) Intelligence long-term care management(3)	論文研究 Thesis Research(3)			
最低畢業學分34學分 = 必修16學分、選修18學分(含)以上 **The minimum graduation credits are 34 credits: 16 for required subjects and at least 18 credits for elective courses.**								
修課規定 Course Regulations	1.碩三(含)以上學生必選「論文研究」。Third-year students (included) and above must take the Thesis Research course. 2. 第一學期結束前須於臺灣學術倫理教育資源中心之網路教學平台修習學術倫理教育研究生課程或校內外辦理之學術倫理教育課程，並取得修課證明。Before the end of the first semester, you must take the Graduate Course in Academic Ethics Education at https://ethics.moe.edu.tw Center for Taiwan Academic Research Ethics Education or take other academic ethics education courses from the school or other schools to obtain a certificate of attendance. 3. 畢業前須以第一作者身份完成國內外研討會口頭或海報發表或期刊接受刊登至少一篇。Before graduation, make sure you publish at least one article as the first author in an academic conference (oral presentation or poster) in Taiwan or abroad - or via an academic journal acceptance. 4. 專題研討(一)、專題研討(二)為全英語上課。Seminar I and II are EMI courses, i.e., language of instruction is English. 5. 選修課程依當學期實際開設課程為主。Electives are courses offered in the current semester.							