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

Course schedule for Fall 2024	Year 1		Year 2		Year 3		Educational Goals Core Competencies	Future Development
	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester		
Required subject (16)	Research methodology(2) Seminar I(1) Artificial intelligence(3)	Seminar II (1) Big data for intelligence medical(3) Thesis I(2)	Thesis II(2)	Thesis III(2)			**Educational Goals：** Cultivate students to be advanced information management professionals with integrated decision-making and research capabilities and the ability to make independent judgments. **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.	**Further education：** Domestic and foreign management doctoral programs. **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.
Elective subject (18)	Statistics(3) Algorithm(3) Advanced statistical analysis(3)	Machine learning(3) Smart health and care(3) Artificial Intelligence of Things(3) Data science(3)	Deep learning of artificial intelligence(3) Cloud computing and big data processing(3) Application of artificial intelligence in precision medicine(3) Smart wearable devices(3) New generation network technology(3) Decision analysis(3)	Data mining and visualization analysis(3) Big data management for strategic analysis(3) Smart health integrated management(3) Medical image processing(3) Elderly welfare technology(3) Intelligence long-term care	Thesis Research(3)			
	The minimum graduation credits are 34 credits: 16 for required subjects and at least 18 credits for elective courses.							
Course Regulations	1. Third-year students (included) and above must take the Thesis Research course. 2. 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. 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. Seminar I and II are EMI courses, i.e., language of instruction is English. 5. Electives are courses offered in the current semester.							