

Curriculum Map of 2024 Academic Year for Undergraduate. Department of Information Technology and Management of Tzu Chi University

| Course schedule for Fall 2024 | Year 1 | | Year 2 | | Year 3 | | Year 4 | | Educational Goals Core Competencies | Future Development |
|---|---|---|---|--|--|--|--|--------------|---|---|
| | 1st Semester | 2nd Semester | 1st Semester | 2nd Semester | 1st Semester | 2nd Semester | 1st Semester | 2nd Semester | | |
| The Core Required Courses of the School (33) | 1. General Studies Center Courses: Basic General Courses (Required) 18 credits, General Elective Courses 16 credits, General Courses of the Colleges 4 credits. 2. Physical Education Courses: Required Courses 2 credits, Interest Options for Active Physical Education Elective Courses 1 credit. 3. Foreign Language Courses: Elective Courses 2 credits. *The core required courses of the school are handled by the regulations of the College, the General Education Center, the Physical Education Center, and the Foreign Language Teaching Center. | | | | | | | | Educational Goals : 1. Cultivate information talents with humanistic qualities and emphasis on workplace ethics. 2. Cultivate information talents with system integration and problem-solving abilities. 3. Cultivate information talents with cross-field and international perspectives. Core Competencies : 1. Cultivate students with basic skills in information technology and management. 2. Cultivate students with professional skills in information technology and management. 3. Cultivate students' innovative and creative skills. 4. Cultivate students with the ability to integrate scientific and technological humanities literacy and information ethics. 5. Cultivate students' abilities in logical thinking, communication and coordination. 6. Cultivate students' abilities in cross-domain learning and diversified learning. | Further education : Domestic and foreign management master's programs. Employment : Internships on and off campus during the summer vacation of the junior year, integrating learning and application with the industry. Employment includes global Tzu Chi organizations, hospitals, private enterprises, management companies, and other information-related industries. |
| College Courses (Required) (6) | Introduction to Computer Science(2) | | Interdisciplinary Curriculum Applied in the Occupyp(2) | | Professional English(1) (1) | | Professional English(2) (1) | | | |
| Professional Basic Courses (Required) (27) | Calculus(2) Pratice of Introduction to Computer Science(1) Programming(2) Pratice of Programming(1) Management Fundamentals(3) | Management of Mathmatics(2) Object-Oriented Technology(2) Object-Oriented Technical Internship(1) | Data Structure(2) Data Structures and Lab(1) Probability(2) | Statistics(2) Database Management System(2) Database Management System Internship(1) | Operating System(3) | | | | | |
| Professional Core Courses (Required) (21) | Multimedia Production(3) | | Management Information System(3) | Algorithms(3) | Business Data Communications(3) Project planning(1) | Cloud Application(3) Practical Project 1(1) | Practical Project 2(1) Internship in Professional Practice(3) | | | |
| Employment Course Module I AI Big Data (Elective) (15) | | Internet of Things(3) | Data Mining(3) | Big Data Analytics(3) Artificial Intelligence(3) | AI Deep Learning(3) | Information Visualization(3) | AIoT Practice and Application(3) | | | |
| Employment Course Module II Digital Multimedia (Elective) (15) | | Digital Image Processing(3) | Unity Development Practice(3) | Unity Multi-Platform Application Development(3) | Video Clips(3) 3D Computer Animation(3) | Computer Animation(3) | Live Streaming and Marketing(3) | | | |
| General Elective Courses (16) | | An Introduction for Information Technology and Management(2) | Information Security Management(3) | E-Service and Learning(2) | | Mobile Applications Design(3) | Smart Health and Care(3) Web Planning and Design(3) Management Seminar(3) Medical Information Management(3) Mixed Reality(3) | | | |
| The Core Required Courses of the School(33)+College Courses (Required)(6)+ Professional Basic Courses (Required) (27)+ Professional Core Courses (Required)(21)+ Employment Course Module I AI Big Data (Elective)(15)+ Employment Course Module II Digital Multimedia (Elective) (15)+ General Elective Courses(16)=133 credits in total. | | | | | | | | | | |
| Course Regulations | 1. The graduation threshold for students of this Department is as follows: During the school period, students need to obtain any 2 pieces of domestic second-class skills certificates or international certificates, which are listed in the reward method for this school's students to obtain the department's professional certificates. 2. Electives are courses offered in the current semester. | | | | | | | | | |