Curriculums of MS Program at the Department of Information Management, Chang Gung University
(Applicable to Newly-Admitted Students for the 2024 Academic Year)

Area	Course Title	Credits	1st		2nd	
			Fall Semester	Spring Semester	Fall Semester	Spring Semester
Required (Department)	Seminar on Information Technology and Applications	2	2			
	Professional Ethics	2		2		
	Seminar on Information Management	2		2		
	Academic Writing	3		3		
	Seminar	1			1	
Elective (Foundmental Courses)	Big Data Processing and Analytical Techniques	3	3			
	Data Mining	3	3			
	Applied Multivariate Analysis	3	3			
	Combinatorial Optimization	3	3			
	Introduction to Deep Learning	2	2			
	Research Methods (I)	3	3			
	Research Methods (II)	3		3		
	Independent Study	6		2	2	2
	Web Mining and Text Mining	3		3		
	The Classification Topics in Artificial Intelligence	3		3		
	Business English Communication	2		2		
	Application Project for Deep Learning	2		2		
	Mixed Method: Research Design and Application	3		3		
	Social Network Analysis	3			3	
	Special Topic in Decision Analysis				3	
	Structural Equation Modeling SEM				3	
Elective in Information Management	Digital Marketing	2		2		
	Healthcare Management Information System	3		3		
	E-Business	3		3		
	Service Science and Management	3		3		
	Mobile Commerce	3		3		
	Smart Healthcare Topic	3		3		
	Digital Transformation: a Global Perspective	2		2		
	User Behavior and Management	3			3	
	Big Data Application and Electronic Commerce	3			3	
	Health Information Management	3			3	
Elective in Information Technology	Advanced Information Security	3	3			
	Wireless Communications	3	3			
	Medical Informatics	3	3			
	Image Processing	3	3			
	Medical Imaging	3		3		
	Special Topics in Information Security	3		3		
Elective in Industrial Applications	Information Systems Practice in Bank Finance	0.5	0.5			
	System Analysis on Bank Finance Information Systems	0.5	0.5			
	Healthcare Information Exchange Practice	0.5	0.5			
	System Analysis on Healthcare Information Systems	0.5	0.5			
Remarks	1. Graduation credits: 42 credits (including 6 credits for thesis) (1) Required credits: 10 course credits and 6 thesis credits. (2) Elective credits: 26 credits. A. At least 6 credits must be taken from basic elective courses, excluding Business English Communication. Business English Communication does not count towards graduation credits. B. A maximum of 9 credits from other departments can be recognized (Prior approval from the advisor and department is required, and an application form must be submitted for verification). C. Each graduate student must complete 15 elective credits designated by their advisor. 2. Other requirements: (1) Prerequisites: Students must have previously completed 2 out of the following 6 courses, each with at least 3 credits: Statistics, Management Information Systems, Systems Analysis and Design, Programming, Data Structures, and Computer Networks. Students must meet the prerequisite requirements before graduation. Prerequisite credits are not counted towards graduation credits. (2) International students may take English-taught courses from other departments, without the aforementioned 9-credit limit, but must submit an application in advance for approval by the departmental affairs committee.					