Department of Computer Science and Information Engineering
Curriculum Requirements for Enrollees in the Academic Year 110 (Fall 2021)

Program	Master's Program for the Day Division								
Group	None								
Class Type	Regular Class								
Special Program	None								
Curriculum Committee	Department Curriculum								
	College Curriculum								
	University Curriculum	110.06.07							
	Academic Affairs	110.06.07							
Graduation Credits /Study Duration	At least 30 credits required (plus 6 thesis credits), with a study period of 1-4 years; actual graduation credits based on the table below.								
Credit Load per Semester	The courses and credits required for each semester are determined by the respective departments (or institutes). However, during the first academic year, the total number of credits per semester must not be fewer than 6 credits and not exceed 18 credits.								

Required and Elective	Credits	Subject Category
Required	6 Credits	Major Requirements (including Thesis)
Elective	24 Credits	Major Elective
Other Regulations		
Remarks	"Computer Course" means computer access is required (computer and internet usage fee).	

First Semester, First Year					Second Semester, First Year				
Course	Course	Course Name	Credits/Hours	Notes	Course	Course	Course Name	Credits/Hours	Notes
Major Required	M0IA01	Seminar(1)	0/2		Major Required	M0IA02	Seminar(2)	0/2	
Major Required	M0IA07	English for Science and Technology	0/2		Major Elective	M0IE08	Network Programming	3/3	Computer Course
Major Elective	M0IE01	Embedded Chip Design and Test	3/3	Computer Course	Major Elective	M0IE09	Application of Biomedical Wireless Measurement	3/3	
Major Elective	M0IE02	Hardware Description Language	3/3	Computer Course	Major Elective	M0IE10	Electronic Design Automation	3/3	Computer Course
Major Elective	M0IE03	Embedded Free Software Design	3/3	Computer Course	Major Elective	M0IM11	Mobile Software Design	3/3	Computer Course
Major Elective	M0IE04	Advance Neuronet-Fuzzy Theory	3/3		Major Elective	M0IM13	The Design of Mobile Service Systems	3/3	Computer Course
Major Elective	M0IE15	Image Processing Systems	3/3	Computer Course	Major Elective	M0IM14	Practice of Data Center Virtualization	3/3	Computer Course
Major Elective	M0IM02	Mobile Multimedia Techniques	3/3	Computer Course	Major Elective	M0IM18	Artificial Intelligence	3/3	
Major Elective	M0IM03	Cloud Computing Practice	3/3	Computer Course	Major Elective	M0IN05	Advanced operating system	3/3	
Major Elective	M0IM04	Mobile Communication Systems	3/3		Major Elective	M0IN06	Advanced Algorithms	3/3	
Major Elective	M0IM16	Big Data Practice	3/3	Computer Course	Major Elective	M0IN07	Advanced Software Engineering	3/3	
Major Elective	M0IN02	Practice of Sensors and Circuits Design	3/3		Major Elective	M0IN08	Information Security Practices	3/3	

Course	Course	Course Name	Credits/Hours	Notes	Course	Course	Course Name	Credits/Hours	Notes
Major Elective	M0IN03	Advanced Computer Architecture	3/3		Major Elective	M0IN11	Application and Software Security	3/3	
Major Elective	M0IN04	Advanced Database System	3/3	Computer Course					
First Semester, Second Year					Second Semester, Second Year				
Course	Course	Course Name	Credits/Hours	Notes	Course	Course	Course Name	Credits/Hours	Notes
Major Required	M0IA03	Seminar(3)	0/2		Major Required	M0IA04	Seminar(4)	0/2	
Major Elective	M0IE06	Advanced SOC Design	3/3		Major Required	M0IA08	Master Thesis	6/6	
Major Elective	M0IE11	Communication IC Design	3/3	Computer Course					
Major Elective	M0IE12	Embedded Game Software Design	3/3	Computer Course					
Major Elective	M0IE13	Advanced Medical Image Processing	3/3	Computer Course					
Major Elective	M0IE14	Healthcare Instrument Research and Design	3/3	Computer Course					
Major Elective	M0IE19	Intelligent Vision Systems	3/3	Computer Course					
Major Elective	M0IM07	Digital Home Networks	3/3						
Major Elective	M0IM10	Network simulation analysis	3/3	Computer Course					
Major Elective	M0IM20	Machine Learning	3/3	Computer Course					