

Department of Computer Science and Information Engineering
Curriculum Requirements for Enrollees in the Academic Year 111 (Fall 2022)

Program	Master's Program for the Day Division														
Group	None														
Class Type	Regular Class														
Special Program	None														
Curriculum Committee	Department Curriculum	111.04.27													
	College Curriculum	111.05.20													
	University Curriculum	111.06.06													
	Academic Affairs	111.06.06													
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	MOIA01	Seminar(1)	0/2		Major Required	MOIA02	Seminar(2)	0/2							
Major Required	MOIA07	English for Science and Technology	0/2		Major Elective	MOIE10	Electronic Design Automation	3/3	Computer Course						
Major Elective	MOIE02	Hardware Description Language	3/3	Computer Course	Major Elective	MOIE17	Embedded Systems	3/3							
Major Elective	MOIE03	Embedded Free Software Design	3/3	Computer Course	Major Elective	MOIE18	Medical Image Processing	3/3	Computer Course						
Major Elective	MOIE15	Image Processing Systems	3/3	Computer Course	Major Elective	MOIM13	The Design of Mobile Service Systems	3/3	Computer Course						
Major Elective	MOIM02	Mobile Multimedia Techniques	3/3	Computer Course	Major Elective	MOIM14	Practice of Data Center Virtualization	3/3	Computer Course						
Major Elective	MOIM03	Cloud Computing Practice	3/3	Computer Course	Major Elective	MOIM18	Artificial Intelligence	3/3							
Major Elective	MOIM16	Big Data Practice	3/3	Computer Course	Major Elective	MOIN05	Advanced operating system	3/3							
Major Elective	MOIN02	Practice of Sensors and Circuits Design	3/3		Major Elective	MOIN06	Advanced Algorithms	3/3							
Major Elective	MOIN03	Advanced Computer Architecture	3/3		Major Elective	MOIN07	Advanced Software Engineering	3/3							
Major Elective	MOIN04	Advanced Database System	3/3	Computer Course	Major Elective	MOIN11	Application and Software Security	3/3							
Major Elective	MOIN10	Practice of Information Security Management Systems	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
Major Required	MOIA03	Seminar(3)	0/2		Major Required	MOIA04	Seminar(4)	0/2
Major Elective	MOIE06	Advanced SOC Design	3/3		Major Required	MOIA08	Master Thesis	6/6
Major Elective	MOIE14	Healthcare Instrument Research and Design	3/3	Computer Course				
Major Elective	MOIE19	Intelligent Vision Systems	3/3	Computer Course				
Major Elective	MOIM20	Machine Learning	3/3	Computer Course				
Major Elective	MOIM21	Cyber Security	3/3	Computer Course				
Major Elective	MOIM22	Practice of Optical Sorting	3/3	Computer Course				