

Institute of Mechatronic 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		110.04.24					
		College Curriculum		110.06.09					
		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		8 Credits		Major Requirements (including Thesis)					
Elective		22 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 Category	Course Number	Course Name	Credits/Hours	Notes	Course Category	Course Number	Course Name	Credits/Hours	Notes
Major Required	MOD002	Seminar(1)	1/2		Major Required	MOD004	Seminar(2)	1/2	
Major Elective	MOD801	Advanced Engineering Mathematics	3/3		Major Elective	MOD812	Nontraditional Manufacturing Technology	3/3	
Major Elective	MOD804	Advanced Material Science	3/3		Major Elective	MOD813	Mechatronics	3/3	
Major Elective	MOD806	Digital Control System Analysis and Design	3/3		Major Elective	MOD817	Reverse Engineering	3/3	
Major Elective	MOD808	Computer-Aided Design	3/3		Major Elective	MOD820	Vibration and Noise Control	3/3	
Major Elective	MOD810	Finite Element Method	3/3		Major Elective	MOD829	Real-Time Control System and Graphical Language	3/3	
Major Elective	MOD811	Technologica English Writing	3/3		Major Elective	MOD843	Mechanism Design	3/3	
Major Elective	MOD833	Advanced Mechanism	3/3		Major Elective	MOD844	Mechanics Analysis of Electronic Packaging	3/3	
Major Elective	MOD840	Quality Engineering and Management	3/3		Major Elective	MOD851	Technological English Presentation	3/3	
Major Elective	MOD855	Linear System Theory	3/3		Major Elective	MOD854	Optical-Electrical Engineering	3/3	
Major Elective	MOD861	Advanced Heat Transfer	3/3		Major Elective	MOD856	Fracture & Failure Analysis	3/3	
Major Elective	MOD862	Mechanics of Piezoelectricity	3/3		Major Elective	MOD858	Mechanics of Composite Materials	3/3	
					Major Elective	MOD859	Pneumatic & Hydraulic servo system control	3/3	

