

# Institute of Mechatronic Engineering

## Curriculum Requirements for Enrollees in the Academic Year 112 (Fall 2023)

Program	Master's Program for the Day Division								
Group	None								
Class Type	Regular Class								
Special Program	None								
Curriculum Committee	Department Curriculum		112.04.18						
	College Curriculum		112.05.17						
	University Curriculum		112.05.29						
	Academic Affairs		112.05.29						
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	Course	Course Name	Credits / Hours	Notes	Course	Course	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	MOD824	Digital Signal Processing and Sensor Application	3/3		Major Elective	MOD844	Mechanics Analysis of Electronic Packaging	3/3	
Major Elective	MOD833	Advanced Mechanism	3/3		Major Elective	MOD851	Technological English Presentation	3/3	
Major Elective	MOD840	Quality Engineering and Management	3/3		Major Elective	MOD854	Optical-Electrical Engineering	3/3	
Major Elective	MOD855	Linear System Theory	3/3		Major Elective	MOD856	Fracture & Failure Analysis	3/3	
Major Elective	MOD861	Advanced Heat Transfer	3/3		Major Elective	MOD858	Mechanics of Composite Materials	3/3	
Major Elective	MOD862	Mechanics of Piezoelectricity	3/3		Major Elective	MOD859	Pneumatic & Hydraulic servo system control	3/3	
First Semester, Second Year					Second Semester, Second Year				

[illegible]