

**MUST Curriculum Planning for Graduate Students for Academic Year 2022-2023,
Institute of Precision Mechatronics Engineering**

1 st year(111)						2 nd year(112)						
	Course	1 st semester		2 nd semester			Course	1 st semester		2 nd semester		
		Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.	
MUST Core Required Courses	Research Methodology and Thesis Writing	1	2			MUST Core Required Courses						
	Seminar	1	2	1	2							
	Subtotal						Subtotal					
Department compulsory courses						Department compulsory courses	Thesis	3	3	3	3	
	Subtotal	0	0	0	0		Subtotal	3	3	3	3	
Department Elective Courses	Precision Machine Design	3		3		Department Elective Courses	Welding Metallurgy	3		3		
	Introduction to Robotics	3		3			Introduction to Artificial Intelligence	3		3		
	Finite Element Method and Engineering Application	3		3			Advanced Artificial Intelligence	3		3		
	3D Reverse Rapid Design	3		3			Applied Techniques of Fluid Mechanics	3		3		
	Materials Design and Selection	3		3			Precision Machine Design(II)	3		3		
	Special Topics of Semiconductor Technology	3		3			Computer-Aided Engineering - Case Study	3		3		
	Intelligent Mechatronics and Industrial Internet of Things	3		3			Metallurgy and properties of Mechanical	3		3		
	Laser Technology and Application	3		3			Introduction to Modern Control Methods	3		3		
	Practice of Computer Control System	3		3			Advance Heat Transfer Practical	3		3		
	Internship Practical Training(I)	9		9			Green technology and engineering	3		3		
							Internship Practical Training(II)	9		9		

Cr./hr.=Credit/hour

Remarks:

1. Minimum credits required for graduation are 30 credits (9 required credits and at least 21 elective credits)
2. Study credits per semester: the lower limit is 1 credit (6 credits not included for the thesis).
3. The department allows inter-departmental electives, but the credits of the department's major electives cannot be 15 credits.
4. All 6 thesis credits will be granted only after passing the oral exam.
5. In order to graduate, each graduate student must take at least two or more all-English courses amounting to at least 4 credits.
6. Internship(I) and Internship(II) not included in elective credits.
7. Graduate students shall take 6-20 credits each semester for the 1st academic year and 3-21 credits each semester during the 2nd academic year.
8. The elective courses are subject to change if necessary.