

# Precision Mechatronic Engineering for Foreign Students at Minghsin University of Science and Technology

## Courses for the PME Master Degree

First Academic Year						
	First Semester			Second Semester		
	Course	Credit	Hour	Course	Credit	Hour
Required Courses	Seminar(I)	1	2	Seminar(II)	1	2
	English for Science (I)	1	2			
Electives Courses	Theory of gearing and its applications	3	3	Image inspection technology	3	3
	Introduction to modern control methods	3	3	Advanced kinematics	3	3
	Linear system	3	3	System vibration	3	3
	Precision Machine Design	3	3	Laser technology and application	3	3
	Finite element analysis	3	3	Introduction to design and analysis of experiments	3	3
	Laser metrology	3	3	Mechatronics Practice	3	3
	Practice of computer control system	3	3	Object-oriented programming	3	3
	Advanced Quality Control	3	3			
Second Academic Year						
	First Semester			Second Semester		
	Course	Credit	Hour	Course	Credit	Hour
Required Courses	Seminar(III)	1	2	Seminar(IV)	1	2
	Thesis	3	3	Thesis	3	3
Electives Courses	Case study	2	2			
	Technology management	3	3			
	Optimal design	3	3			
	System reliability analysis	3	3			

Note :

1. Graduate students shall take 6-15 credits for the first academic year and 3-15 credits for the second academic year.
2. Minimum credits required for this program: 35 credits with 11 required credits and 24 elective credits which may include some pre-approved inter-institution elective credits.
3. PME might approve inter-institution elective credits; however the total taken PME elective credits shall not be lower than 18 credits.
4. The listed elective courses are for references only and are subjected to changed.