

Undergraduate Curriculum of N.T.O.U. Department of Mechanical &
 Mechatronic Engineering
 (For 103 Academic Year Students)

Classification	Course	Credit	Year 1st		Year 2nd		Year 3rd		Year 4th	
			Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
General Required Courses	Chinese	6	3	3						
	English	6	2	2	2					
	General Education	16	2	2	4	4	2	2		
	Physical Education	0	0	0	0	0				
	Service-Learning Program-Campus Service (I)	0	0							
	Service-Learning Program-Campus Service (II)	0		0						
Subtotal of General Required Courses Credits		28	7	7	6	4	2	2	0	0
Departmental Required Courses	Engineering Graphics	1	1							
	Engineering Graphics Drawing	1	1							
	Matlab Programming Language	3	3							
	Work Shop Practice	1	1							
	Precision Measurement and Processing Experiments	1		1						
	Calculus	6	3	3						
	General Physics	3		3						
	General Physics Experiments	1		1						
	Mechanical Drawing	1		1						
	Mechanical Drawing Work Shop	1		1						
	Statics	3			3					
	Engineering Mathematics	6			3	3				

	Applied Electronics	3				3				
	Electric Circuits	3			3					
	Thermodynamics (I)	3			3					
	Thermodynamics (II)	3				3				
	Dynamics	3				3				
	Engineering Materials	3			3					
	Mechanics of Materials	3					3			
	Machine Design	3						3		
	Mechanism	3					3			
	Manufacture Process	3		3						
	Fluid Mechanics	3					3			
	Heat Transfer	3						3		
	Automatic Control Systems (1)	3					3			
	Research in Special Topics	2						2		
	Mechanical and Mechatronic Engineering Experiments (I)	1						1		
	Mechanical and Mechatronic Engineering Experiments (II)	1							1	
	General Chemistry	2	2							
	General Chemistry Experiments	1	1							
Subtotal of Departmental Required Courses Credits		74	12	13	15	12	12	9	1	0
Departmental Required Courses and Elective Courses of Main Specialty	Main Specialty	12					3	3	3	3
Subtotal of Departmental Required Courses and Elective Courses of Main Specialty Credits		12	0	0	0	0	3	3	3	3
Departmental Elective Courses of Minor Specialty	Minor Specialty	6						3	3	
Subtotal of Departmental Elective Courses of Minor Specialty Credits		6	0	0	0	0	0	3	3	0
Total Credits		120	19	20	21	16	17	17	7	3
Total of Required Courses Credits		120								
Minimum of Elective Credits		12								
Minimum of Undergraduate Credits		132								