

Mechanical Engineering Course

Mechanical engineering is the means which provide us with the basic technology for all fields of modern industry, and which will lead us into the future. To cope with the increasing social demand in recent years of mechanization, automation of production and rapid development of technology, our students study the latest technologies dealing with, for example, new materials, energy, and advanced information processing. In order to become excellent mechanical engineers, students learn, through lectures and experiments, not only the basic principles of mechanical engineering, but also their practical applications to various engineering fields.

Subjects		Number of Credits	Number of Credits				
			1st	2nd	3rd	4th	5th
Required Subjects	Applied Mathematics A	1				1	
	Applied Mathematics B	2				2	
	Probability and Statistics I	1				1	
	Probability and Statistics II	1					1
	Applied Physics I	2			2		
	Applied Physics II	2				2	
	Fundamentals to Mechanical Engineering	1	1				
	Computer Literacy	1	1				
	Information Processing I	2			2		
	Information Processing II	2				2	
	Materials & Mechanics I	2			2		
	Materials & Mechanics II	2				2	
	Materials & Mechanics III	1					1
	Machine Element	1		1			
	Engineering Mechanics	1			1		
	Mechanism	1			1		
	Mechanical Dynamics	2				2	
	Thermodynamics I	2			2		
	Thermodynamics II	2				2	
	Heat Transfer	1					1
	Fluid Flow and Dynamics I	2			2		
	Fluid Flow and Dynamics II	2				2	
	Fluid Flow and Dynamics III	1					1
	Material Science & Technology I	1		1			
	Material Science & Technology II	2			2		
	Manufacturing Processes I	1	1				
	Manufacturing Processes II	2		2			
	Electrical Engineering	2				2	
	Electronics and Information Engineering	1					1
	Mechatronics	1					1
	Control Engineering	2					2
	Workshop Practice I	3	3				
	Workshop Practice II	3		3			
	Workshop Practice III	2			2		
Basic Mechanical Drawing I	2	2					
Basic Mechanical Drawing II	2		2				
Mechanical Design and Drawing I	2			2			
Mechanical Design and Drawing II	3				3		
Mechanical Engineering Laboratory I	3				3		
Mechanical Engineering Laboratory II	3					3	
Technical English	2					2	
Graduation Thesis	10					10	
Total of Required Credits	82	8	9	18	24	23	
Elective Subjects	Applied Mathematics Exercise	1				1	
	Quality Control	1					1
	Heat Engine	1					1
	Compressible Fluid	1					1
	Fracture & Computational Mechanics	1					1
	Engineering Materials	1					1
	Machine Tool	1					1
	Robotics	1					1
	Laws and Regulations of Industry	1					1
	Subtotal	9				1	8
	Minimum Credit Requirement	6					6
Total of Offered Credits of Specialized Subjects	91	8	9	18	25	31	
Total of Required Credits of Specialized Subjects	88	8	9	18	53		
Total of Required of General Subjects	77	26	26	16	7	2	
Total of Offered Credits	174	34	35	34	35	36	
Total of Required Credits	167	34	35	34	64		