

Mechanical Engineering BSc

	Subject name and Nepton Code	Institute of	1st sem. Fall	2nd sem. Spring	3rd sem. Fall	4th sem. Spring	5th sem. Fall	6th sem. Spring	7th sem. Fall	cr.		
Natural Science	Analysis I.	Mathematics	2 + 2							5	exam	
	Linear Algebra	Mathematics	2 + 2							5	exam	
	Engineering Chemistry	Fac. of Mat. & Chem. Eng.	2 + 1							3	term mark	
	Analysis II.	Mathematics		2 + 2						5	term mark	
	General Physics I.	Physics and Electronic Engineering		2 + 2						4	exam	
	Engineering Thermodynamics	Energy Engineering and Chemical Machinery		2 + 1						3	exam	
	Statics	Mechanics		2 + 2						5	exam	
	General Physics II.	Physics and Electronic Engineering			2 + 1					3	exam	
	Engineering Fluid Mechanics	Energy Engineering and Chemical Machinery			2 + 1					3	exam	
	Numerical Methods	Mathematics			2 + 2					4	exam	
	Mechanics of Materials	Mechanics			2 + 2					5	exam	
	Dynamics	Mechanics				2 + 2				5	exam	
	Economics and Social Science	Quality Management	Production Engineering					2 + 0			3	exam
		Lean Logistics	Logistics						2 + 2		4	term mark
Management and Organization		Fac. of Economics						2 + 2		5	exam	
Operations Management		Fac. of Economics							2 + 0	2	exam	
Professional Subjects	Descriptive Geometry	Mathematics	2 + 2							4	exam	
	Fundamentals of Machine Elements	Machine and Product Design	2 + 2							4	exam	
	Computer Studies	Information Science	2 + 2							4	term mark	
	Structural Materials I.	Materials Science and Technology	2 + 2							5	exam	
	Mechanical Drawing	Machine and Product Design		2 + 2						4	exam	
	Information Technology for Engineers	Information Science		2 + 2						4	exam	
	Structural Materials II.	Materials Science and Technology		2 + 2						5	exam	
	Material Technologies	Materials Science and Technology			2 + 3					5	exam	
	Machine Elements I.	Machine and Product Design			2 + 2					5	exam	
	Manufacturing Technology	Production Engineering			2 + 2					5	exam	
	Fluid Machinery	Energy Engineering and Chemical Machinery				2 + 2				5	exam	
	Machine Elements II.	Machine and Product Design				2 + 2				5	exam	
	Industrial Machining	Production Engineering				2 + 2				4	exam	
	Machine Tools	Machine Tools and Mechatronics				2 + 2				4	exam	
	Chemical Technologies and Equipment	Energy Engineering and Chemical Machinery				2 + 2				4	exam	
	Fundamentals of CAD	Mathematics				1 + 2				3	term mark	
	Electrotechnics-Electronics	Physics and Electronic Engineering					2 + 2			4	exam	
	Mechatronics, Hydraulics-Pneumatics	Machine Tools and Mechatronics					2 + 2			3	term mark	
	Automation	Automation and Communication Technology						2 + 2		4	exam	
Mechanical Engineering Specialization	Welding and Related Technologies	Materials Science and Technology					2 + 2			4	exam	
	Quality Inspection in Machining Industry	Production Engineering					2 + 2			4	term mark	
	Technology Planning	Production Engineering					2 + 2			4	exam	
	Measuring of Machines	Logistics						2 + 2		5	exam	
	Heat Treatment and Surface Technologies	Materials Science and Technology						2 + 2		5	exam	
	Noise Protection	Machine and Product Design						2 + 2		5	exam	
	Design Knowledge	Machine and Product Design						0 + 2		2	term mark	
	Hydraulic and Pneumatic Systems	Machine Tools and Mechatronics							2 + 2	3	term mark	
	Finite element applications of machine structures	Machine and Product Design							2 + 2	4	exam	
	Safety Engineering in Chemical Industries	Energy Engineering and Chemical Machinery							2 + 2	4	term mark	
Machine Manufacturing Technology Specialization	Cutting Theory	Production Engineering					2 + 2			4	exam	
	Quality Inspection in Machining Industry	Production Engineering					2 + 2			4	term mark	
	Technology Planning	Production Engineering					2 + 2			4	exam	
	CAD Systems	Machine Tools and Mechatronics						2 + 2		5	term mark	
	CNC Technology	Production Engineering						2 + 2		5	term mark	
	Machine Industrial Assembly	Production Engineering						2 + 2		5	exam	
	Production Technology of Typical Parts	Production Engineering						0 + 2		2	term mark	
	Material Technologies in Manufacturing Processes	Materials Science and Technology							2 + 2	3	exam	
	Production Processes and systems	Production Engineering							2 + 2	4	exam	
	Design of Tools and Fixtures	Production Engineering							2 + 2	4	term mark	
Machine Design Specialization	Methods of Mechanical Engineering Design	Machine and Product Design					2 + 2			4	exam	
	Nonmetallic Materials and Technologies	Materials Science and Technology					2 + 2			4	exam	
	Computer Aided Design	Machine and Product Design					2 + 2			4	term mark	
	CNC Machine Tools	Machine Tools and Mechatronics						2 + 2		5	exam	
	Prototyping and Machine Building Techniques	Machine and Product Design						0 + 4		5	exam	
	Noise Protection	Machine and Product Design						2 + 2		5	exam	
	Design Knowledge	Machine and Product Design						0 + 2		2	term mark	
	Bearings	Machine and Product Design							2 + 2	3	exam	
	Finite element applications of machine structures	Machine and Product Design							2 + 2	4	exam	
	Fundamentals of Tribology	Machine and Product Design							2 + 2	4	exam	
Design of Machine Tools	Design of Machine Tools	Machine Tools and Mechatronics					2 + 2			4	exam	
	Tribology	Machine and Product Design					2 + 2			4	exam	
	Theory of Design	Machine Tools and Mechatronics					2 + 2			4	exam	
	Single Purpose Machines and its Designing	Machine Tools and Mechatronics						2 + 2		5	term mark	
	Programming of CNC Machine Tools	Machine Tools and Mechatronics						2 + 2		5	exam	
	Measuring of Machines	Machine Tools and Mechatronics						2 + 2		5	exam	
	Design Projects	Machine Tools and Mechatronics						0 + 2		2	term mark	
	Metal-Forming Machine Tools	Machine Tools and Mechatronics							2 + 2	3	term mark	
	Hydraulic and Pneumatic Systems	Machine Tools and Mechatronics							2 + 2	4	term mark	
	Special and Precision Manufacturing Technologies	Production Engineering							2 + 2	4	term mark	
Summer Internship*											term mark	
Degree Thesis									0 + 8	15	term mark	
optional 1	Optional						2 + 2			5	term mark	
optional 2	Optional								2 + 0	2	exam	
optional 3	Optional									3	exam	
cr/sem.			30	30	30	30	30	30	30	210		

*Obligatory: minimum of 6 weeks, preferably after the 2nd semester