Mechanical Engineering BSc

Category	Subject name and Neptun 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	exam
	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
	Physical education 1		0 + 2							0	signature
	Physical education 2			0 + 2						0	signature
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						2 + 0			3	exam
cr/sem.			30	30	30	30	30	30	30	210	

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