

Mechanical Engineering BSc												
	Subject name and Neptun Code	Institute of	Prerequisite	1st sem. Fall	2nd sem. Spring	3rd sem. Fall	4th sem. Spring	5th sem. Fall	6th sem. Spring	7th sem. Fall	cr.	
Natural Sciences	Analysis I. (GEMAN114-B2a)	Mathematics		2 + 2							5	exam
	Linear Algebra (GEMAN203-B2a)	Mathematics		2 + 2							5	exam
	Engineering Chemistry (MAKKEM283-B2a)	Fac. of Materials and Chemical Eng.		2 + 1							3	term mark
	Analysis II. (GEMAN124-B2a)	Mathematics	GEMAN114-B2a		2 + 2						5	term mark
	Comprehensive Exam in Mathematics (GEMAN128-B2a)	Mathematics	see under the table		0						0	exam
	General Physics I. (GEFT001-B2a)	Physics and Electronic Engineering			2 + 2						4	exam
	Engineering Thermodynamics (GEAHT211-B2a)	Energy Engineering and Chemical Machinery	GEMAN114-B2a		2 + 1						3	exam
	Statics (GEMET001-B2a)	Mechanics	GEMAN114-B2a and GEMAN203-B2a		2 + 2						5	exam
	General Physics II. (GEFT002-B2a)	Physics and Electronic Engineering	GEFT001-B2a			2 + 1					3	exam
	Engineering Fluid Mechanics (GEAHT321-B2a)	Energy Engineering and Chemical Machinery	GEMAN124-B2a			2 + 1					3	exam
	Numerical Methods (GEMAK631-B2a)	Mathematics	GEMAN124-B2a and GEMAN203-B2a		2 + 2						5	exam
	Mechanics of Materials (GEMET002-B2a)	Mechanics	GEMET001-B2a		2 + 2						5	exam
	Dynamics (GEMET003-B2a)	Mechanics	GEMET002-B2a			2 + 2		2 + 2			5	term mark
Economics and Social Sciences	Comprehensive Exam in Mechanics (GEMET010-B2a)	Mechanics	see under the table					0			0	exam
	Quality Management (GEGTT104-B2a)	Production Engineering							2 + 0		3	exam
	Lean Logistics	Logistics									4	term mark
	Management and Organization Operations Management	Fac. of Economics Fac. of Economics							2 + 2 2 + 2		5 5	exam exam
Professional Subjects	Descriptive Geometry (GEAGT101-B2a)	Mathematics		2 + 2						2 + 0	4	exam
	Fundamentals of Machine Elements (GEGET001-B2a)	Machine and Product Design		2 + 2							4	exam
	Computer Studies (GEIAK201-B2a)	Information Science		2 + 2							4	term mark
	Structural Materials I. (GEMTT001-B2a)	Materials Science and Technology		2 + 2							5	exam
	Mechanical Drawing (GEGET002-B2a)	Machine and Product Design			2 + 2						4	exam
	Information Technology for Engineers (GEIAK210-B2a)	Information Science	GEIAK201-B2a		2 + 2						4	exam
	Structural Materials II. (GEMTT002-B2a)	Materials Science and Technology	GEMTT001-B2a		2 + 2						5	exam
	Material Technologies (GEMTT003-B2a)	Materials Science and Technology	GEMTT002-B2a			2 + 3					5	exam
	Machine Elements I. (GEGET003-B2a)	Machine and Product Design	GEGET001-B2a and GEGET002-B2a			2 + 2					4	exam
	Manufacturing Technology (GEGTT100-B2a)	Production Engineering	GEMTT001-B2a			2 + 2					5	exam
	Fluid Machinery (GEAHT431-B2a)	Energy Engineering and Chemical Machinery	GEAHT211-B2a and GEAHT321-B2a				2 + 2				5	exam
	Machine Elements II. (GEGET004-B2a)	Machine and Product Design	GEGET003-B2a				2 + 2				5	exam
	Industrial Machining (GEGTT102-B2a)	Production Engineering	GEGTT100-B2a				2 + 2				4	exam
	Machine Tools (GESGT001-B2a)	Machine Tools and Mechatronics					2 + 2				4	exam
	Chemical Technologies and Equipment (GEVGT001-B2a)	Energy Engineering and Chemical Machinery					2 + 2				4	exam
	Fundamentals of CAD (GEAGT121-B2a)	Mathematics	GEAGT101-B2a				1 + 2				3	term mark
	Electrotechnics-Electronics (GEVE050-B2a)	Physics and Electronic Engineering						2 + 2			4	exam
	Mechatronics, Hydraulics-Pneumatics (GESG003-B2a)	Machine Tools and Mechatronics						2 + 2			3	term mark
	Automation	Automation and Communication Technology							2 + 2		4	exam
Specialisation in Mechanical Engineering	Welding and Related Technologies (GEMTT301-B2a)	Materials Science and Technology	GEMTT001-B2a					2 + 2			4	exam
	Quality Inspection in Machining Industry (GEGTT112-B2a)	Production Engineering	GEGTT110-B2a					2 + 2			4	term mark
	Technology Planning (GEGTT114-B2a)	Production Engineering	GEGTT110-B2a					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
Specialisation in Machine Manufacturing Technology	Cutting Theory (GEGTT110-B2a)	Production Engineering	GEGTT110-B2a					2 + 2			4	exam
	Quality Inspection in Machining Industry (GEGTT112-B2a)	Production Engineering	GEGTT110-B2a					2 + 2			4	term mark
	Technology Planning (GEGTT114-B2a)	Production Engineering	GEGTT110-B2a					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
Specialisation in Machine Design	Methods of Mechanical Engineering Design (GEGET006-B2a)	Machine and Product Design	GEGET004-B2a					2 + 2			4	exam
	Nonmetallic Materials and Technologies (GEMTT306-B2a)	Materials Science and Technology	GEMTT003-B2a					2 + 2			4	exam
	Computer Aided Design (GEGET008-B2a)	Machine and Product Design	GEGET004-B2a					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
Specialisation in Design of Machine Tools	Design of Machine Tools (GESGT009-B2a)	Machine Tools and Mechatronics	GESGT001-B2a					2 + 2			4	exam
	Tribology (GEGET075-B2a)	Machine and Product Design						2 + 2			4	exam
	Theory of Design (GESGT008-B2a)	Machine Tools and Mechatronics	GESGT001-B2a					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
Specialisation in Chemical Machinery Engineering	Pressurized Systems A (GEVGT012-B2a)	Energy Engineering and Chemical Machinery						2 + 2			4	exam
	Unit Operation A (GEVGT011-B2a)	Energy Engineering and Chemical Machinery						2 + 2			4	exam
	Basics of Physical Chemistry for Mechanical Engineers (MAKKEM230-B2a)	Fac. of Materials and Chemical Eng.						2 + 2			4	term mark
	Materials and Welding of Chemical Equipment	Materials Science and Technology							2 + 2		5	exam
	Rotating Machinery Diagnostics and Maintenance	Energy Engineering and Chemical Machinery							0 + 2		2	term mark
	Pressurized Systems B	Energy Engineering and Chemical Machinery							2 + 2		5	exam
	Unit Operation B	Energy Engineering and Chemical Machinery							2 + 2		5	exam
	Process Control in Chemical Engineering	Automation and Communication Technology								2 + 2	4	term mark
	Safety in Chemical Engineering	Energy Engineering and Chemical Machinery								2 + 2	4	exam
	Process Engineering in Chemical Industry	Energy Engineering and Chemical Machinery								2 + 2	3	exam
	Physical Education 1. (ETTESME1A)	Fac. of Health Sci.		0 + 2							0	signature
	Physical Education 2. (ETTESME2A)	Fac. of Health Sci.			0 + 2						0	signature
	Summer Internship*									0	0	signature
	Degree Thesis									0 + 8	15	term mark
optional 1	Computational Fluid Dynamics (GEAHT557-B2a)	Energy Engineering and Chemical Machinery	GEAHT431-B2a					2 + 2			5	term mark
optional 2	Introduction to the Finite Element Method (GEMET011-B2a)	Mechanics	GEMET002-B2a					2 + 0			3	exam
optional 3	History of Technics (GEGET300-B2a)	Machine and Product Design								2 + 0	2	exam
cr/sem.				30	30	30	30	30	30	30	210	

*Obligatory: minimum of 6 weeks, preferably after the 6th semester
Comprehensive Exam in Mathematics (GEMAN128-B2a): obligatory exam in the 2nd semester. Prerequisites: completion of GEMAN114-B2a and GEMAN203-B2a and registered or fulfilled GEMAN124-B2a
Comprehensive Exam in Mechanics (GEMET010-B2a): obligatory exam in the 4th semester. Prerequisites: completion of GEMET002-B2a and registered or fulfilled GEMET003-B2a