

Recommended plan of the Mechanical Engineering							
Full-time form							
Semester	Subject	Type	Lecture	Tutorial	ECTS	Schortcut	Prerequisite
1	English language I.	P	0	4	4	SA_ANJ_1	
1	Mathematics I.	P	2	4	7	SA_MAT_z	
1	Informatics I.	P	1	2	4	SA_INF_1z	
1	Parts and mechanisms of machines I.	P	1	2	4	SA_CMS_1	
1	Methodology of professional work	P	2	0	3	SA_MOP_z	
1	Introduction to mechanical engineering	P	0	4	4	SA_UST	
1	Environmental impacts in engineering	V	2	0	3	SA_EVD	* optional
1	Chemistry of materials	V	0	2	2	SA_CHEM	* optional
1	Ethics and philosophy of the university environment	V	0	2	2	SA_EFVP	** optional compulsory
2	English language II.	P	0	4	4	SA_ANJ_2	
2	Mathematics II.	P	2	4	7	SA_MAT_2z	SA_MAT_z
2	Statics	P	2	2	5	SA_STK	SA_MAT_z
2	Material science I.	P	2	2	5	SA_NOM_1	SA_MAT_z
2	Engineering technology I.	P	1	2	4	SA_STE_1	
2	Informatics II.	P	1	2	4	SA_INF_2z	SA_INF_1z
2	Physics I.	P	2	2	5	SA_FYS_1a	SA_MAT_z
2	Energetics	PV	2	2	5	SA_ENG	
3	English language for technicians I.	P	0	2	2	SA_AJT_1	
3	Physics II.	P	2	2	5	SA_FYS_2a	SA_MAT_2z, SA_FYS_1a
3	Flexibility and strength I.	P	2	2	5	SA_PRP_1	SA_STK
3	Kinematics	P	2	2	5	SA_KNM	SA_STK
3	Engineering technology II.	P	1	2	4	SA_STE_2	SA_STE_1
3	Material science II.	P	2	2	5	SA_NOM_2	SA_NOM_1, SA_MAT_2z
3	Foundations of foundry technologies	PV	0	2	2	SA_ZST	
3	Fluid mechanics	PV	2	2	5	SA_MET	
3	Corrosion protection	V	2	0	3	SA_PRK	
4	English language for technicians II.	P	0	2	2	SA_AJT_2	
4	Flexibility and strength II.	P	2	2	5	SA_PRP_2	SA_PRP_1
4	Dynamics	P	2	2	5	SA_DYM	SA_KNM
4	Parts and mechanisms of machines II.	P	2	2	5	SA_CMS_2a	SA_CMS_1
4	Thermomechanics	P	2	2	4	SA_TEM	
4	Computer-aided designing I.	P	0	4	4	SA_PPK_1a	
4	Technology of metal and non-metal welding	P	2	2	4	SA_TSV	SA_STE_2
4	Materials in engineering practice	PV	2	2	5	SA_MAS	SA_NOM_2
4	Technology of metal casting under pressure	PV	0	2	2	SA_TLK	
4	Fundamentals of 3D simulation of casting of metals and alloys	PV	0	4	4	SA_ZSI	SA_MET, SA_STE_2
5	Technology of machine and CNC machining	P	1	2	4	SA_TCN	SA_STE_2
5	Logistics in engineering	P	1	2	3	SA_LGT	
5	Technical measurements	P	1	2	4	SA_TME	SA_STE_2
5	Computer aided production	P	0	4	4	SA_PPV_a	
5	Surface engineering	PV	2	2	5	SA_PIN	SA_NOM_2, SA_MAT_2z, SA_FYS_2a
5	Automated technical calculations	PV	0	4	4	SA_ATV_a	
5	Computer-aided design II.	PV	0	4	4	SA_PPK_2a	SA_PPK_1a
5	Operation and maintenance of machines	V	0	2	2	SA_PUS_a	
5	Drives of machines	V	0	2	2	SA_POH	
6	Professional experience	P	520 hours		20	SA_OPX	
6	Bachelor thesis	P	0	4	10	SA_BAK	

**Comment:**

SA\_OPX - 13 weeks = 520 hours

P - compulsory subject

PV - according to focus

V - optional subject

**For the whole study period 180 ECTS (P=160 credits, PV=14 credits, V= 6 credits)**