

Postgraduate Study Programme

Materials and Technology

Year 1.

Subject [abbreviation]	Guarantee department	Semester		Number of credits
		Winter 14 weeks	Summer 14 weeks	
<u>Obligatory subjects</u>				
Progressive Engineering Materials (PSM*M)	KMT	2+0 ex		4
Theory of Heat Treatment (TTZ*M)	KMT	2+2 ex		5
Machines and Devices for Technological Processes (SZTP)	KSP	2+2 ex		5
Theory of Casting (TS)	KSP	2+2 ex		5
Theory of Welding, Brazing and Thermal Cutting (TSPD)	KSP	2+2 ex		5
Surface Treatment (PÚ*M)	KMT		2+2 ex	5
Theory of Machining (TO)	KOM		2+2 ex	5
Theory of Metal Forming (TTV)	KSP		2+2 ex	5
Methods for Technological Processes Analysis (MATP)	KSP		0+4 ex	5
Excursion (EX*M)	KSP		1 week c	3
Field Trip (OP*M)	KSP		3 weeks c	3
<u>Obligatory eligible subjects – group 1¹⁾</u>				
Simulations of Technological Processes (SIMP)	KSP	2+2(1+3)		5
Jigs and Assembly Devices (PMOP)	KOM	ex		
Non-metallic Materials (NEM*M)	KMT			
<u>Obligatory eligible subjects – group 2¹⁾</u>				
Welded Structures and Progressive Technologies (SKPT)	KSP			
Abrasive and Unconventional Methods (ANM)	KOM		2+2 ex	5
Degradation Processes and Limit States of Material (DPM*M)	KMT			
summary of credits		29	31	60
summary of ex and cc		6 ex	5 ex	

Abbreviation:

2+2	number of lectures and exercises weekly
ex	examination
cc	classified credit
c	credit

Notes

¹⁾ Students choose one of the subjects.

Postgraduate Study Programme

Materials and Technology

Year 2.

Subject [abbreviation]	Guarantee department	Semester		Number of credits
		Winter 14 weeks	Summer 10 weeks	
Obligatory subjects				
Diploma Thesis I (DP1*M)	dep.	0+2 cc		2
Experimental Evaluation of Materials Properties (EHV*M)	KMT	0+4 ex		4
Metrology (MET)	KOM	2+2 ex		5
Additive Technology (ADIT)	KSA	2+2 ex		5
Diploma Thesis 2 (DP2*M)	dep.		0+8 c	7
Diploma Thesis 3 (DP3*M)	dep.		0+16 c	15
Design of Technological Processes (PTPA)	KOM		2+2 ex	4
Obligatory eligible subjects – group 3²⁾				
Casting Materials and Progressive Technology (SMPT)	KSP			
Experimental Methods in Metal Forming (EMMF)	KSP	2+2 ex		5
Cutting Tools (RENAI)	KOM	2+2 ex		5
Special Machining Methods (SMO)	KOM			
Methods of Structure Analysis (MSA*M)	KMT			
Obligatory eligible subjects – skupina 4²⁾				
Advanced Materials and Structures (PMS*M)	KMT			
Special Tools and Methods for Processing Sheets (SMZP)	KSP		2+2 ex	4
Production Processes and Systems (VPSY)	KOM		2+2 ex	4
Project Management (RIP)	KST			
summary of credits		26	34	60
summary of ex and cc		5ex,1cc	3 ex	

Abbreviation:

2+2	number of lectures and exercises weekly
ex	examination
cc	classified credit
c	credit

Notes

²⁾ Students choose two of the subjects.