

**CURRICULUM
Metal Materials**

Subject code	Subject name	Semester			ECTS	
		I		II		
		Number of hours		Number of hours		
		L	E	LE		
04K02-102	Numerical Methods and Statistics II	3	2	0	X	6
02K08-042	Physical Metallurgy – selected chapters	3	2	0		6
	Elective I	3+2				6
	Elective II					6
	Elective III					6
	Total hours per week	15+10				
					Total ECTS	30
04K40-075	Methodology of scientific research work	X			2	3
	Research work on the topic of the master's thesis (definition of the topic, development of the topic, literature references)				4	5
	Master's thesis				16	22
	Total hours per week				22	
					Total ECTS	30
ELECTIVE COURSES						
Subject code	Subject name	L	E	LE	X	ECTS
02K08-043	Material Testing of High-demand Components	3	1	1		6
02K08-044	Calibration of Measuring Devices for Mechanical Tests	3	1	1		6
02K08-045	Metal Materials for Special Purposes	3	0	2		6
02K08-046	Surface Coatings	3	0	2		6
02K08-047	Modern Methods of Testing the Structure and Microstructure of Metallic Materials	3	0	2		6
02K08-048	Modern Tool Steels	3	1	1		6

CURRICULUM							
Non-metallic Materials							
Subject code	Subject name	Semester					ECTS
		I			II		
		Number of hours			Number of hours		
		L	E	LE			
04K02-102	Numerical Methods and Statistics II	3	2	0			6
02K09-048	New Ceramic Materials	3	2	0			6
	Elective I	3+2					6
	Elective II	3+2					6
	Elective III	3+2					6
	Total hours per week	15+10					
						Total ECTS	30
04K40-075	Methodology of scientific research work					2+0	3
	Research work on the topic of the master's thesis (definition of the topic, development of the topic, literature references)					4	5
	Master's thesis					16	22
	Total hours per week					22	
						Total ECTS	30
ELECTIVE COURSES							
Subject code	Subject name	L	E	LE			
02K09-047	Unshaped Refractories	3	1	1		6	
02K09-049	New Materials in Road Construction	3	1	1		6	
02K09-050	Selected chapters on the Chemistry of Portland cement	3	1	1		6	
02K09-051	Contemporary Non-metallic Materials in Construction	3	1	1		6	
02K09-052	Technogenic Waste Materials in the Production of Cement	3	1	1		6	
02K09-053	Powder Technology	3	1	1		6	