



University of Zenica
FACULTY OF ENGINEERING AND NATURAL SCIENCES



CURRICULUM FOR THE FIRST YEAR OF STUDIES

<i>Subject code</i>	<i>Subject name</i>	<i>Semester</i>						<i>ECTS</i>		
		I			II					
		L	E	LE	L	E	LE			
04K02-068	Mathematics I	3	3	0	X	X	X	7		
02K05-006	Physic I	3	2	1				7		
02K05-027	General Chemistry	3	2	0				6		
04K02-067	Application of Computers in Technology	2	2	0				3,5		
03K12-105	Technical Drawing and Documentation	2	2	0				3,5		
02K05-022	Crystallography	2	1	0				3		
	Number of hours per week	14	13	1						
	Total number of hours per week	28								
	Total number of ECTS							30		
04K02-069	Mathematics II	X	X	X	3	3	0	7		
02K05-007	Physics II				3	2	1	7		
02K05-024	Inorganic Chemistry				3	2	2	7		
02K09-004	Mineralogy				2	2	0	4		
03K16-013	Basics of Electrical Engineering				1	0	1	2		
04K03-696	English language-general				2	1	0	3		
	Number of hours per week				14	10	4			
	Total number of hours per week				28					
	Total number of ECTS							30		

CURRICULUM FOR THE SECOND YEAR OF STUDIES

<i>Subject code</i>	<i>Subject name</i>	<i>Semester</i>						<i>ECTS</i>
		<i>III</i>			<i>IV</i>			
		<i>L</i>	<i>E</i>	<i>LE</i>	<i>L</i>	<i>E</i>	<i>LE</i>	
02K05-008	Physical Chemistry	3	2	2				7
02K05-001	Analytical Chemistry I	2	0	3				6
02K05-016	Instrumental Test Methods	3	0	2				6
04K02-070	Numerical and Statistical Methods in Engineering	2	2	0				4
02K08-008	Materials Science	2	2	0				4
04K03-693	Technical English I	1	1	0				2
02K01-011	Sports	0	2	0				1
	Number of hours per week	13	9	7				
	Total number of hours per week	29						
	Total number of ECTS							30
02K05-009	Physical Chemistry of Processes in Metallurgy				3	2	0	6
02K08-006	Metal Materials				2	1	0	4
02K10-008	Heat Engineering				3	2	1	7
03K11-037	Technical Mechanics				2	2	0	4
02K08-002	Testing of Metallic Materials I				3	2	1	5
	Elective group of non-technical subjects				2	0	0	1
04K03-694	Technical English II				1	1	0	2
02K01-011	Sports				0	2	0	1
	Number of hours per week				16	12	2	
	Total number of hours per week				30			
	Total number of ECTS							30
ELECTIVE GROUP OF NON-TECHNICAL SUBJECTS								
<i>Subject code</i>	<i>Subject name</i>	<i>Semester</i>			<i>L</i>	<i>E</i>	<i>Pr</i>	<i>ECTS</i>
04K39-056	Media Culture	IV			2	0	0	1
04K40-074	Philosophy of Science	IV			2	0	0	1
06K21-060	Entrepreneurship	IV			2	0	0	1

CURRICULUM FOR THE THIRD YEAR OF STUDIES

Subject code	Subject name	Semester						ECTS
		V			VI			
		L	E	LE	L	E	LE	
02K08-001	Physical Metallurgy	3	2	0				6
02K10-005	Iron Metallurgy	3	2	1				6
02K06-002	Metallurgy of Non-ferrous Metals	3	2	1				6
02K05-012	Fuels and Combustion	2	2	0				4
02K07-007	Plastic Metal Processing I	3	2	0				5
04K03-695	Technical English III	1	1	0				2
02K01-011	Sports	0	2	0				1
	Number of hours per week	15	13	2				
	Total number of hours per week	30						
	Total number of ECTS							30
02K10-004	Metallurgy of Steel				3	2	1	6
02K06-001	Foundry				3	1	1	6
02K10-002	Industrial Furnaces and Application of Refractory Materials				2	1	2	6
03K12-107	Mechanical Engineering in Metallurgy				2	1	0	3
02K07-006	Calibration of Simple Profiles				2	1	0	2
02K06-007	Metallurgy of Cast Alloys of Non-ferrous Metals				2	1	0	3
02K10-001	Energy Efficiency				2	0	1	3
02K01-011	Sports				0	2	0	1
	Number of hours per week				16	9	5	
	Total number of hours per week	30						
	Total number of ECTS							30

ELECTIVE GROUP OF TECHNICAL SUBJECTS

<i>Subject code</i>	<i>Subject name</i>	<i>Semester</i>	L	E	LE	<i>ECTS</i>
02K06-003	Electrolysis of Aluminium	VII/VIII	2	1	1	5
02K06-004	Metallurgy of Ferroalloys		2	1	1	5
02K06-011	Cast construction		2	1	1	5
02K06-012	New Technologies of Metal Extraction		2	1	1	5
02K06-013	New Casting Technologies		2	1	1	5
02K07-005	Calibration of Profiles		2	1	1	5
02K07-010	Designing the Plastic Processing Process		2	1	1	5
02K10-012	Alternative Iron Production Processes		2	1	1	5
02K10-014	Continuous Casting		2	1	1	5
02K10-016	Application of Refractory Materials		2	1	1	5
02K10-017	Coking Technology		2	1	1	5

