

Subjects of the First Study Cycle							
Subject code	Subject	Subject status	Faculty	Department/section	Year/semester	Fund hours	ECTS
02K10-001	Energy Efficiency	Obligatory	FENS	EM	III	2/0/1	3
02K10-002	Industrial Furnaces and Application of Refractory Materials	Obligatory	FENS	EM	III	2/1/2	6
02K10-003	Engineering Ecology and Recycling	Obligatory	FENS	ChE, EM, EM-nm	III,IV	2/0/1	3
02K10-004	Metallurgy of Steel	Obligatory	FENS	EM	III	3/2/1	6
02K10-005	Iron Metallurgy	Obligatory	FENS	EM	III	3/2/1	6
02K10-006	Metallurgy of Metallic Materials	Obligatory	FENS	EM-mm	III	3/2/0	5
02K10-007	Heat Transfer	Obligatory	FENS	ChE	II	2/1/1	4
02K10-008	Heat Engineering	Obligatory	FENS	EM, EM-nm, EM-mm	II	3/2/1	7
02K10-009	Powder Metallurgy	Obligatory	FENS	EM	IV	2/1/1	5
02K10-010	Secondary Metallurgy	Obligatory	FENS	EM	IV	2/1/1	4
02K10-011	Energy Efficiency	Elective	FENS	EEP	IV	2/1/1	5
02K10-012	Alternative Iron Production Processes	Elective	FENS	EM	IV	2/1/1	5
02K10-013	Industrial Furnaces and Application of Refractory Materials	Elective	FENS	EM-nm	IV	2/1/1	5
02K10-014	Continuous Casting	Elective	FENS	EM	IV	2/1/1	5
02K10-015	Powder metallurgy	Elective	FENS	EM-nm	IV	2/0/2	5
02K10-016	Application of Refractory Materials	Elective	FENS	EM	IV	2/1/1	5
02K10-017	Coking Technology	Elective	FENS	ChE	IV	2/1/1	5
02K10-018	Metallurgical Technologies as Sources of Pollution I	Obligatory	FENS	EEP	II	2/0/1	4
02K10-019	Metallurgical Technologies as Sources of Pollution II	Obligatory	FENS	EEP	III	2/0/2	4

FENS – Faculty of Engineering and Natural Sciences, MF – Mechanical faculty, PTF – Polytechnic faculty, EM – Engineering of Metallurgy, EM-mm- Engineering of Materials metallic materials, EM-nm – Engineering of Materials – nonmetallic materials; EEP – Engineering of Environment Protection, ChE – Chemical Engineering, SWFP – Safety at Work and Fire Protection, ME – Mechanical Engineering, MB – Manufacturing Business, CE – Civil Engineering

Subjects of the Second Study Cycle							
Subject code	Subject	Subject status	Faculty	Department/section	Year/semester	Fund hours	ECTS
02K10-039	Iron Metallurgy II	Elective	FENS	EM	I	3/2/0	6
02K10-040	Solidification of liquid steel	Elective	FENS	EM	I	3/2/0	6
02K10-041	Design of industrial furnaces	Elective	FENS	EM	I	3/1/1	6
02K10-042	Secondary metallurgy and continuous casting	Elective	FENS	EM	I	3/1/1	6

Subjects of the Third Study Cycle (Joint study of technical faculties)				
Subject	Subject status	Semester	Fund hours	ECTS
Energy in metallurgy	Elective	I/II/III	20	5
Energy Efficiency	Elective	I/II/III	20	5
Selected chapters of steel hardening phenomena	Elective	I/II/III	20	5
Selected chapters from steel metallurgy	Elective	I/II/III	20	5
Selected chapters of metallurgical kinetics	Elective	I/II/III	20	5
Heat transfer in metallurgical processes	Elective	I/II/III	20	5