

UNDERGRADUATE UNIVERSITY VOCATIONAL PART-TIME STUDY PROGRAMME IN FOUNDING



FIRST YEAR

I. semester

COURSE	Но	Hours per week		
0001122	L	S	Е	ECTS
Mathematics	3	0	2	6
Physics	3	0	2	6
General and inorganic chemistry	3	0	2	7
Technical drawing and machine elements	2	0	2	5
Introduction to entrepreneurship	2	1	0	3
English language I	1	0	1	3
		24		30

II. semester

COURSE	Hours per week		COURSE Hours per week		eek	ECTS
0001.62	L	S	Е	ECIS		
Fundamentals of physical metallurgy	3	1	0	6		
Thermodynamics and kinetics of metallurgical processes	3	0	0	6		
Heating technology	2	0	2	5		
Chemical analysis and measurements in founding	2	0	2	5		
Quality management	2	0	2	5		
English language II	1	0	1	3		
		21		30		

SECOND YEAR

III. semester

COLINGE	Но	Hours per week		БСТС		
COURSE	L	S	Е	ECTS		
Technology of making molds and cores	3	0	2	5		
Classification and properties	2	2 1 0	0	5		
of casting alloys		1				
Fundamentals of solidification and microstructure	3	3 0	3 0 1	3 0	1	6
development		U	1	0		
Furnaces in founding and refractory materials	3	0	1	5		
Melting technology and quality control of the melt	3	0	2	5		
Disposal and recycling of the casting materials	2	1	0	4		
		24	•	30		

IV. semester

COURSE $\frac{1}{L}$	Но	urs per w	ECTS	
	L	S	Е	ECIS
Designing of gating and feeding systems	2	0	2	5
Casting technology of ferrous metals	3	0	1	5
Casting technology of non-ferrous metals	3	0	1	5
Application of information technologies in founding	2	0	2	5
Heat treatment	2	0	0	5
Materials testing	2	0	2	5
		22	•	30

THIRD YEAR

V. semester

COURSE	Но	Hours per week		БСТС
	L	S	Е	ECTS
Metallographic analysis	2	0	2	5
Analysis of casting defects	2	0	0	5
Welding	2	0	1	4
Casting of aluminum semi-products ^{(e)*}	2	1	0	4
Fundamentals of modeling in founding ^{(e)*}	2	0	1	4
Corrosion and protection of castings ^{(e)*}	2	1	0	4
Surfaces engineering ^{(e)*}	2	1	0	4
Vocational practice	0	0	4	6
Final thesis	0	5	0	6
		21	•	30

L – lectures, S – seminars, E – exercises

^{*} from four elective courses (e) choose one