

1st year

[NTF](#) › [OMM](#) › [Study](#) › [Bachelor's degree](#) › [Metallurgical technology \(Higher professional programme\)](#) › [Curriculum](#) › [1st year](#)

Course	Hours					ECTS
	L	S	P	O	Σ	
1st semester	255	0	195	450	900	30
Mathematics 1	45	0	45	90	180	6
Physics	45	0	30	75	150	5
Chemistry	60	0	15	75	150	5
Introduction to mechanical engineering	45	0	30	75	150	5
Computer practicals	30	0	45	75	150	5
General optional course 1	30	0	30	60	120	4
2nd semester	210	15	225	450	900	30
Mathematics 2	45	0	45	90	180	6
Thermal engineering calculations	30	15	30	75	150	5
Foundations of mechanics	45	0	30	75	150	5
Fundamentals of physical metallurgy	45	0	30	75	150	5
Metallurgy practicals	15	0	60	75	150	5
General optional course 2	30	0	30	60	120	4
TOTAL	465	15	420	900	1800	60

Optional courses	Hours					ECTS
	L	S	P	O	Σ	
Fundamentals of economic analysis	45	0	45	90	180	6
Principles of marketing	30	30	0	60	120	4
Fundamentals of corporate finance	45	0	45	90	180	6
Economy of business in montanistic companies	30	15	15	60	120	4
Environmental economics	45	0	45	90	180	6

Abbreviations used for the syllabus:

L – lectures

S – seminar

P – practice

O – other forms of educational activities (mainly project work)

ECTS – European Credits Transfer System (1 credit point equals a 30-hour student workload)

Grey – Grey written courses are not carried out in this academic year