

2nd year

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Course	Hours					ECTS
	L	S	P	O	Σ	
3rd semester	245	15	250	0	510	34
Practicals in thermodynamics	20	0	40	0	60	4
Heat and mass transfer	30	15	30	0	75	5
Physical metallurgy 1	60	0	30	0	90	6
Mathematics 3	30	0	30	0	60	4
Materials mechanics	45	0	30	0	75	5
Thermodynamics of materials	45	0	30	0	75	5
Thermodynamic practicum	15	0	60	0	75	5
4th semester	225	15	210	0	450	30
Numerical modelling	30	15	30	0	75	5
Production systems in solid	60	0	30	0	90	6
Materials analysis and testing	45	0	30	0	75	5
Management of processes with metal melts	45	0	30	0	75	5
Practicals in metallurgical processes and casting	15	0	60	0	75	5
General optional course 1	30	0	30	0	60	4
TOTAL	470	30	460	0	960	64

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)

General optional course 1 must be chosen from the list **Optional courses – general course** on the page **3.rd year** of study.