

# 2nd year

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Course	Hours					ECTS
	L	S	P	O	Σ	
<b>3rd semester</b>	<b>245</b>	<b>15</b>	<b>250</b>	<b>60</b>	<b>570</b>	<b>34</b>
<a href="#">Practicals in thermodynamics</a>	20	0	40	0	60	4
<a href="#">Heat and mass transfer</a>	30	15	30	0	75	5
<a href="#">Physical metallurgy 1</a>	60	0	30	0	90	6
<a href="#">Mathematics 3</a>	30	0	30	60	120	4
<a href="#">Materials mechanics</a>	45	0	30	0	75	5
<a href="#">Thermodynamics of materials</a>	45	0	30	0	75	5
<a href="#">Thermodynamic practicum</a>	15	0	60	0	75	5
<b>4th semester</b>	<b>225</b>	<b>15</b>	<b>210</b>	<b>450</b>	<b>900</b>	<b>30</b>
<a href="#">Numerical modelling</a>	30	15	30	75	150	5
<a href="#">Production systems in solid state</a>	60	0	30	90	180	6
<a href="#">Materials analysis and testing</a>	45	0	30	75	150	5
<a href="#">Management of processes with metal melts</a>	45	0	30	75	150	5
<a href="#">Practicals in metallurgical processes and casting</a>	15	0	60	75	150	5
<a href="#">General optional course 1</a>	30	0	30	60	120	4
<b>TOTAL</b>	<b>470</b>	<b>30</b>	<b>460</b>	<b>510</b>	<b>1470</b>	<b>64</b>

## 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.