

2nd year

NTF › OMM › Study › Master's Degree › Materials and Metallurgy › Curriculum › 2nd year

Course	Hours					ECTS
	L	S	P	O	Σ	
3rd semester	135	10	120	5	270	30
Materials design	45	0	45	0	90	6
Aluminium technologies	45	10	30	5	90	6
Composites	45	0	45	0	90	6
Optional course 1	0	0	0	0	0	4
Optional course 2	0	0	0	0	0	4
Optional course 3	0	0	0	0	0	4
4th semester	0	0	45	90	135	30
Masters diploma work	0	0	45	90	135	30
TOTAL	135	10	165	95	405	60

Optional courses	Hours					ECTS
	L	S	P	O	Σ	
Measuring and analysis of data	30	10	20	0	60	4
Practice	0	0	60	0	60	4
Selective topics in higher mathematics	30	0	30	0	60	4
Mechanics of polymers	30	0	30	0	60	4
Corrosion	30	15	15	0	60	4
Structural ceramics	30	0	30	0	60	4
Failure analysis	40	0	20	0	60	4
Materials in electrotechnics and electronics	30	0	30	0	60	4
Endurance of materials	30	15	15	0	60	4
Industrial and process furnaces	30	0	30	0	60	4
Ingots and continuous casting	30	10	20	0	60	4
Special steelmaking technologies	15	15	20	10	60	4
Casting techniques	30	5	20	5	60	4
Powder metallurgy	30	15	15	0	60	4

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)