

3rd year

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Course	Hours					ECTS
	L	S	P	O	Σ	
5th semester	225	15	210	450	900	30
Manufacturing technologies: Casting	45	0	30	75	150	5
Manufacturing technologies: Forming	45	0	30	75	150	5
Heat treatment	45	0	30	75	150	5
Welding	45	0	30	75	150	5
Design for manufacture	45	0	30	75	150	5
Practicals in materials testing	0	15	60	75	150	5
6th semester	210	0	240	450	900	30
Optional professional course 2	45	0	30	75	150	5
Optional professional course 3	45	0	30	75	150	5
Optional practical	45	0	30	75	150	5
Practical training	0	0	75	75	150	5
Diploma work	75	0	75	150	300	10
TOTAL	435	15	450	900	1800	60

Optional courses	Hours					ECTS
	L	S	P	O	Σ	
Metallurgical ceramics	45	0	30	75	150	5
Special forming techniques	45	0	30	75	150	5
Artistic forming of materials	30	0	45	75	150	5
Entrepreneurship	30	15	15	75	135	5
Technical English	45	0	30	75	150	5
Practicals in innovative metallurgical products and equipment	30	0	45	75	150	5
Practicals: product management	45	15	15	75	150	5
Failure analysis	45	0	30	75	150	5
Powder metallurgy	30	0	45	75	150	5
Engineering materials	45	15	15	75	150	5
Testing methods of metallurgical materials	45	0	30	75	150	5
Metallurgical furnaces	45	0	30	75	150	5
Casting materials	45	0	30	75	150	5
Quality management	30	0	45	75	150	5

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)

Optional Professional Courses 1 and 2 are chosen by the student from the relevant Optional Professional Courses column; the selection confirms the student's interest in technological knowledge or knowledge necessary to conduct operative work in laboratories as well as for researching and monitoring the properties of materials.

Optional Professional Course 3 is chosen by the student from the relevant Optional Professional Course column and must be worth 5 ECTS. The selected course should be close to the theme of the student's industrial placement or undergraduate thesis.

Optional practical is chosen by the student from the Optional Professional Courses column – practicals.



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