Sept 2017

Name of the programme:	Metallurgical Engineering
Degree awarded:	MSc
Name of qualification:	Certified metallurgical engineer
Students:	

Metallurgical Engineering MSc			1. semester FALL				2. sem. SPRING				3. semester FALL				4. semester SPRING			
Courses	NEPTUN ID	Time and place	LECTURE	PRACTICAL COURSE	CREDIT	REQUIREMENTS*	LECTURE	PRACTICAL COURSE	CREDIT	REQUIREMENTS*	LECTURE	PRACTICAL COURSE	CREDIT	REQUIREMENTS*	LECTURE	PRACTICAL COURSE	CREDIT	REQUIREMENTS*
CORE COURSES																		
Strength of materials (Dávid GÖNCZI)	GEMET268M		2	1	6	s e												
Metal technologies (Dr. Tamás KÉKESI, Dr. Dániel MOLNÁ	MAKMET311M		2	1	6	s e												
Differential equations (Dr. Péter VARGA)	GEMAN015M						0	2	4	s m								
Applied chemistry and transport processes (Dr. Ferenc M	MAKKEM272M						2	1	6	s e								
Materials equilibria (Dr. György KAPTAY)	MAKFKT345M						2	0	4	s e								
Solidification (Dr. Tamás MENDE)	MAKFKT357M		2	1	6	s e												
Interfacial phenomena (Dr. György KAPTAY)	MAKFKT347-17-M										3	0	4	s e				
Prepare of MSc degree thesis I.	MAKFKT361-17-M										0	9	10	s m				
MSc summer internship (4-week)	MAKDH230M										0	40 (sum:160)	6	s r				
Project management (Dr. Béla TÖRÖK)	MAKFKT300M						2	0	4	s e								
Intellectual properties law (Dr. György CZÉL)	MAKPOL264-17-M														0	3	4	s m
Quality management systems (Mr. L. BAGYAL)	MAKMKT520-17-M														3	0	4	s e
Prepare of MSc degree thesis II.	MAKFKT362-17-M														0	8	10	s m
SPECIALIZATION COURSES: Specialization of heat treatment and metalforming																		
Physical metallurgy of heat treated metals and alloys (Dr.	MAKFKT348M		3	0	6	s e												
Simulation of Heat treatment processes (Dtr. Péter BARK	MAKFKT349-17-M						1	3	7	s m								
Fundamentals of metal forming (Dr. György KRALLICS)	MAKFKT350-17-M										4	0	5	s e				
Simulation of deformation technologies (Dr. Sándor KOVA	MAKFKT351-17-M														2	4	7	s m
Complex planning or Project work (Dr. G. GERGELY)	MAKFKT352-17-M														0	3	3	s m
Compensational subjects Heat Treatment and Metalforming specialization																		
Physical metallurgy I. (Dr. V. MERTINGER)	MAKFKT225B		3	1	4	s e												
Drawing/Extrusion (Dr. Gy. KRALLICS)	MAKFKT280-17-B						2	2	5	s e								
Heat Treatment of Ferrous Alloys (Dr. Zs. VERES)	MAKFKT255B		2	0	2	s e												
Metallic Materials (Dr. V. MERTINGER)	MAKFKT277B						3	0	3	s e								
Rolling (Dr. G. SZABÓ)	MAKFKT271-17-B						3	1	4	s e								
Heat Treatment of Non-Ferrous Alloys (Dr. G. GERGELY)	MAKFKT254B						2	0	2	s e								
OPTIONAL COURSES (some example) 3 of these courses are needed																		
Surface Treatment (Dr. T. TÖRÖK)	MAKMET255MBN		2	0	2	s r												
Application of Linear Algebra (Dr. P. KÖRTESSI)	MAKFKT003N		2	0	2	s r												
X-Ray Diffration Methods (Dr. V. Mertinger)	MAKFKT006N		2	0	2	s r												
Nanotechnologies (Dr. P. BAUMLI)	MAKFKT300N		2	0	2	s r												

*Requirements: (e)exam/ (m) practical mark/ (s)signature / (r) report/essay