BASIC DATA	
Name of the programme:	Materials Engineering
Level (MSC, MA/PhD)	MSc
Degree awarded:	diploma
Name of qualification:	Materials engineer
Academic year	**2024/25**

Materials Engineering MSc		1. semester FALL				2. sem. SPRING				3. semester FALL				4. semester SPRING			
Courses	NEPTUN ID	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	GEMET268M	2	1	6	s e												
Microstructure investigation II.	MAKFKT346M	1	2	6	s m												
Composites	MAKFKT305M	2	1	6	s e												
Hungarian as a foreign language and culture 1.	MEIOK01MIDSH	2	2	4	s m												
Differential equations	GEMAN015M					0	2	4	s m								
Applied chemistry and transport processes	MAKKEM272M					2	1	6	s e								
Materials equilibria	MAKFKT345M					2	0	4	s e								
Hungarian as a foreign language and culture 2.	MEIOK02MIDSH					2	2	4	s m								
Interfacial phenomena	MAKFKT347-17-M									3	0	4	s e				
MSc summer internship (4 weeks)	MAKDH237M									0	40	0	s r				
Prepare of MSc degree thesis I.	MAKPOL281-17-M/ MAKKSZ281-17-M/ MAKKEM281-17-M									0	8	10	s m				
Project management	MAKFKT300M													2	0	4	s e
Intellectual properties law	MAKPOL264-17-M					0	3	4	s m								
Quality Management System	MAKMKT520EN													3	0	4	s e
Prepare of MSc degree thesis II.	MAKPOL282-17-M/ MAKKSZ282-17-M/ MAKKEM282-17-M													0	9	10	s m
SPECIALIZATION COURSES for Polymer Engineering																	
Polymer adhesives	MAKPOL260-17-M	2	2	7	s e												
Polymer Study	MAKPOL228B	3	1	4	s e												
Materials testing	MAKPOL227B	2	2	4	s e												
Polymer study II.	MAKPOL261-17-M					3	1	7	s e								
Operation of polymer processing machines	MAKPOL262-17-M					3	3	7	s e								
Elastomers	MAKPOL231EN					0	2	2	s m								
Polymer product design	MAKPOL263-17-M									2	4	7	s m				
Polymer composites	MAKPOL235-17-B									2	0	2	s e				
SPECIALIZATION COURSES for Ceramic Engineering																	
Fundamentals of ceramics I.	MAKKSZ218B	1	4	4	s e												
Silicate technology	MAKKSZ101B	1	4	4	s m												
Glass Technology	MAKKSZ106B	1	4	4	s e												
Fundamentals of ceramics II.	MAKKSZ261M					2	2	6	s e								
Ceramic technology I	MAKKSZ260M					3	2	6	s e								
Ceramic technology II.	MAKKSZ263M									2	2	5	s m				
Testing of ceramic materials	MAKKSZ264M									2	2	5	s m				
Complex planning	MAKKSZ262M													0	2	5	s m
SPECIALIZATION COURSES for Chemical technology																	
Colloid chemistry	MAKKEM274-17-M	2	2	7	s m												
Inorganic chemical technologies	MAKKEM272EN	2	1	3	s m												
Reaction kinetics and catalysis	MAKKEM275-17-M					3	1	7	s e								
Physical chemistry	MAKKEM222-17-B					2	3	5	s e								

Organic chemical technologies	MAKKEM212-17-B		2	1	4	s e							
Chemical processes II.	GEVGT227-17-M						3	3	7	s e			
Modelling of chemical systems	MAKKEM285EN						2	1	3	s m			
Optimalization of chemical systems	MAKKEM280-17-M						2	1	4	s e			
OPTIONAL COURSES													
Elective course I.											2	0	2	s r
Elective course II.											2	0	2	s r
Elective course III.											2	0	2	s r
Elective course IV.											2	0	2	s r