

BASIC DATA	
Name of the programme:	Space Engineering
Degree awarded:	MSc
Name of qualification:	Space Engineer
Field of the programme:	
Branch of the programme:	

Name of the course			1. semester				2. semester				3. semester				4. semester			
Courses	NEPTUN ID	PRE-REQUISITE (if any)	LECTURE	PRACTICAL COURSE	CREDIT	REQUIREMENTS*	LECTURE	PRACTICAL COURSE	CREDIT	REQUIREMENTS*	LECTURE	PRACTICAL COURSE	CREDIT	REQUIREMENTS*	LECTURE	PRACTICAL COURSE	CREDIT	REQUIREMENTS*
CORE COURSES																		
Applied physics			2	2	4	e												
Applied mathematics			2	2	4	e												
Astrochemistry			2	0	2	e												
Materials for spacecraft			3	1	4	e												
Materials Equilibria			2	0	4	e												
Knowledge of space quality and standards			3	2	5	e												
Space law and economics			2	0	2	e												
Vacuum physics and technology			2	1	3	e												
Surface properties							3	1	4	e								
Astronomy and Planetology							3	0	3	e								
Space industry and history							2	0	2	e								
Space project management							3	0	3	e								
Space technology							2	0	2	e								
Material property design							2	1	3	e								

Cleanroom technologies							2	1	3	e								
Solidification and gravity							2	1	3	e								
Material knowledge, degradation							2	1	3	e								
Thermooptical properties											2	1	3	e				
Thermological, strength and dynamic simulation											2	2	4	m				
Material selection											2	1	3	e				
Precision machining											0	2	2	m				
Construction design											2	0	2	m				
Measurement technology															0	2	2	m
Space mining and raw material processing															2	0	2	e
Space qualification tests															3	0	3	e
Soldering, gluing															2	1	3	m
Space-borne Remote Sensing															1	1	2	m
Applied geophysical and data processing methods in space exploration															1	1	2	e
Communication in space systems															2	0	2	e
SPECIALIZATION COURSES																		
-																		
OPTIONAL COURSES																		
optional subject I.				2	0	2	r											
optional subject II.								2	0	2	r							

optional subject III.							2	0	2	r								
DISSERTATION/THESIS WORK																		
MSc Thesis I.											0	15	15	r				
MSc Thesis II.															0	15	15	r
OTHER/SPECIAL COURSES																		
Professional practice											0	160	0	r				

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