1.	Field of study	Materials Science and Engineering
2.	Academic year of entry	2016/2017 (winter term)
3.	Level of qualifications/degree	second-cycle studies (in engineering)
4.	Degree profile	general academic
5.	Mode of study	full-time

**Module:** Engineering materials

Module code: IM2A\_MI

## 1. Number of the ECTS credits: 3

code	description	learning outcomes of the programme	level of competence (scale 1-5)
M2A_MI_1	Students have an expanded knowledge in the field of structure and basic properties as well as of advanced groups of	IM2A_W07	4
	engineering materials useful to choose a material at manufacturing of technical products.		2
			2
		IM2A_W12	3
M2A_MI_2	Students have the skill to compare materials mechanical, technological and operational properties and also to choose		1
	engineering materials for technical applications; they can assess economic conditions of various engineering materials use.	IM2A_U11	2
			3
			2
		IM2A_U19	2
		IM2A_W17	1
M2A_MI_3	Students know development trends in the area of individual material groups.		4
		IM2A_W18	2
IM2A_MI_4	Students show readiness to cooperate with designers and process engineers.	IM2A_U12	2

3. Module description	Module description			
	The module Engineering materials shall enable that students are freely knowledgeable about basic and advanced groups of engineering materials in view of the structure, properties, the way of shaping and rules of selection for specific technical products.  This will allow to deepen the skill of proper choice of structural materials for specific technical applications.			

2025-04-07 14:13:34 []

4. Assessment	4. Assessment of the learning outcomes of the module						
code type		description	learning outcomes of the module				
IM2A_MI_w_1			IM2A_MI_1, IM2A_MI_2, IM2A_MI_3, IM2A_MI_4				
IM2A_MI_w_2	Test	Assessment of own work effects in the field of selected issues.	IM2A_MI_1, IM2A_MI_2				

5. Forms of teaching								
	form of teaching			required hours of student's own work		assessment of the		
code	type	description (including teaching methods)	number of hours	description	number of hours	learning outcomes of the module		
IM2A_MI _fs_1	lecture	The lecture shall enable mastering the issues related to basic and advanced groups of engineering materials and their importance in the civilisation progress.  The lecture is delivered with the use of multimedia, presentations and software from the field of "Materials engineering".		Reading of the recommended literature.  Deepening the knowledge of selected issues, preparation to get credits.		IM2A_MI_w_1, IM2A_MI_w_2		

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