

1. Field of study	Materials Science and Engineering	
2. Faculty	Faculty of Science and Technology	
3. Academic year of entry	2019/2020 (winter term), 2020/2021 (winter term), 2021/2022 (winter term), 2022/2023 (winter term)	
4. Level of qualifications/degree	first-cycle studies (in engineering)	
5. Degree profile	general academic	
6. Mode of study	full-time	

Module: Materials economics

Module code: IM1A_EkoMat

1. Number of the ECTS credits: 4

2. Learning outcomes of the module			
code	description	learning outcomes of the programme	level of competence (scale 1-5)
IM1A_EkoMat_1	Students have elementary knowledge about costs and rational materials management.	IM1A_W27	2
IM1A_EkoMat_2	Students can manage inventories, know the place, roles and tasks of warehouses in the enterprise logistics in the market economy reality.	IM1A_U01 IM1A_U16	2 5
IM1A_EkoMat_3	Students are aware of the need for skilful management of human and material resources in enterprises.	IM1A_K02 IM1A_K05	2 3

3. Module description	
Description	The Materials economics module shall enable students learning the basic terms related to the elements of forecasting, costs, and rational materials management. Students acquire the skills to manage inventories, know the place, roles and tasks of warehouses in the enterprise logistics in the market economy reality.
Prerequisites	The knowledge within the secondary school scope is required: mathematics, physics, chemistry, and biology .

4. Assessment of the learning outcomes of the module			
code	type	description	learning outcomes of the module
IM1A_EkoMat_w_1	Written test	Verification of the knowledge based on the lectures content, recommended literature and attended classes.	IM1A_EkoMat_1, IM1A_EkoMat_2, IM1A_EkoMat_3

5. Forms of teaching						
code	form of teaching			required hours of student's own work		assessment of the learning outcomes of the module
	type	description (including teaching methods)	number of hours	description	number of hours	
IM1A_EkoMat_fs_1	lecture	The lecture shall enable students learning the basic terms related to the elements of forecasting, costs, and rational materials management. Students acquire the skills to manage inventories, know the place, roles and tasks of warehouses in the enterprise logistics in the market economy reality.	30	The work with the recommended literature comprising independent acquisition of knowledge related to basic issues.	45	IM1A_EkoMat_w_1
IM1A_EkoMat_fs_3	discussion classes	The application of the learned theoretical knowledge in a practical use in relation to the materials and inventories management in the enterprise.	15	Preparation to classes through independent studying of recommended issues from the literature.	30	IM1A_EkoMat_w_1