

Subject card

Subject name and code	Environment protection, PG_00020943									
Field of study	Nanotechnology									
Date of commencement of studies	October 2020		Academic y realisation		2020/2021					
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study Subject group related to scientific				
							research in the field of study			
Mode of study	Full-time studies		Mode of de		at the university					
Year of study	1		Language of instruction			Polish				
Semester of study	1		ECTS credits			1.0				
Learning profile	general academic profile		Assessment form			assessment				
Conducting unit	Department of Materials Engineering and Bonding -> Faculty of Mechanical Engineering and Ship Technology									
Name and surname	Subject supervisor		dr inż. Hanna Smoleńska							
of lecturer (lecturers)	Teachers	dr inż. Hanna Smoleńska								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory Project		t	Seminar	SUM		
of instruction	Number of study hours	15.0	0.0 0.0 0.0		0.0		0.0	15		
	E-learning hours included: 0.0									
	Adresy na platformie eNauczanie:									
Learning activity and number of study hours	Learning activity	Participation i classes included			articipation in onsultation hours		tudy	SUM		
	Number of study hours	15		1.0		9.0		25		
Subject objectives	Make students aware proecological behavior				the env	ironme	nt. The promo	otion of the		
Learning outcomes	Course outcome		Subject outcome			Method of verification				
	[K6_K71] is conscious of the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment									
	K6_U10					[SU5] Assessment of ability to present the results of task				
Subject contents	Environment impacts – sources, types end results;									
	Life cycle analyse (LCA) of products; definitions, main steps, results and theirs interpretation;									
	EKO points method; evaluation methods and applications (examples); EKO points for product and for process;									
	Environment conservation from the cradle to the grave of product.									
	Case studies for some materials and products									

Data wydruku: 20.04.2024 09:18 Strona 1 z 2

Prerequisites and co-requisites							
Assessment methods	Subject passing criteria		Passing threshold	Percentage of the final grade			
and criteria	Writing test		0%	100.0%			
Recommended reading	Basic literature	 W. Adamczyk; Ekologia wyrobów; PWE 2004 Z. Kowalski, J. Kulczyńska, M. Góralczyk; Ekologiczna ocena cyklu życia procesów wytwórczych (LCA), PWN 2007 K. Małachowski; Gospodarka a środowisko i ekologia, CeDeWu, 2011 Z. Wnuk; Ekologia i ochrona środowiska. Wybrane zagadnienia., Wydawnictwo Uniwersytetu Rzeszowskiego, 2011 					
	Supplementary literature	1.	A. Johansson; Czysta technolo przyszłość, WNT 1997	zysta technologia. Środowisko technika r 1997			
	eResources addresses						
Example issues/ example questions/ tasks being completed	The life cycle of the selected product.						
	Types of impacts on the environment at the stage of manufacture of the selected material.						
	The use of ecodesign principles on the example of the selected product.						
Work placement	Not applicable						

Data wydruku: 20.04.2024 09:18 Strona 2 z 2