COURSE DESCRIPTION CARD

Faculty of Civil Engineering and Environmental Sciences										
Field of study	Environmental Engineering							Degree level and programme type	Bachelor's degree	
Specialization/ diploma path	F	aciliti	es and	instal	lation s	sanitar	Study profile	generally academic		
Course name	Air Protection							Course code	IS-FCEE-00025	
							Course type	Erasmus		
Forms and number of	L	С	LC	Р	SW	FW	S	Semester	winter	
hours of tuition	15			15				No. of ECTS credits	3	
Entry requirements	Physics, General Chemistry, Mathematics									
Course objectives	Mastering the skills and competences of understanding phenomena and processes occurring in the atmosphere; principles of operation, design and use of devices and technologies protecting air quality.									
Course content										
Teaching methods	informative lecture, project									
Assessment method	lecture - two written tests, specialist workshop - project implementation and oral answer									

Symbol of learning outcome	Learning outcomes	learning	ce to the outcomes ld of study	
LO1	The student knows the advanced topics in mathematics, physics, chemistry, biology, which are the basis of processes occurring in atmospheric air.	IS1_W02		
LO2	The student knows the basic methods of physical and chemical analyzes, processes and phenomena occurring in the air at an advanced level.	IS1_W02 IS1_W04		
LO3	The student is able to use scientific, popular-scientific and industry literature, subject standards, legal acts, online databases in a foreign language; properly use the information obtained.	IS1_U14		
LO4	The student is able to design, in accordance with the initial assumptions, noise protection systems adequate to the needs and possibilities, using appropriately selected technologies, methods, tools and materials.	IS1_U10		
LO5	The student has the skills to consciously apply non-technical aspects of engineering activities and to take into account its impact on the environment, and the associated responsibility for decisions.	IS1_K06		
Symbol of	Methods of assessing the learning outcomes	Type of tui	tion during	
learning		which the	outcome is	
outcome		asse	ssed	
LO1	written tests, project defense		Р	
LO2	written tests, project defense	L, P		
LO3	project implementation	Р		
LO4	project implementation	Р		
LO5	project implementation and defense		D	
	Student workload (in hours)	No. of	hours	
Calculation	participation in lectures	10		
	participation in a specialist workshop	10		
	preparation for a specialist workshop and implementation of project tasks	25		
	preparation for the lecture test	25		
	participation in consultations	5		
	Quantitative indicators	HOURS	No. of ECTS credits	
Student wo	25	1		
	65	2,5		
Basic references	-	l		

Supplementary	Belgiorno V., Naddeo V., Zarra T.: Odour impact assessment handbook. Chichester: John					
references	Wiley a. Sons, 2013.					
Organisational		Date of issuing the				
unit conducting	Department of Technology in Environmental Engineering	programme				
the course						
Author of the	Msc Eng Ewa Szatyłowicz	01.12.2019				
programme	MISC LITY LWA SZALYTOWICZ					

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work,

S – seminar