Faculty of Civil Engineering and Environmental Science									
Field of study	Environmental Engineering						Degree level and programme type	Graduate	
Specialization/ diploma path	Study profile general								general
Course name	Environmental Management							Course code	···· 19282251H'
								Course type	Compulsory
Forms and number of	L	С	LC	Р	SW	FW	S	Semester	1
hours of tuition	15			30				No. of ECTS credits	3
Entry requirements	Env. Assessment, Legal regulations								
Course objectives	management in territorial units. To teach the rules of preparation of environmental management documents in territorial units. To present the types of environmental management, the principles of their design and the content of documents. T familiarize students with the basic systems of environmental management in a enterprise. To teach the principles of system selection depending on the size an type of production. To educate the principles of designing environmental management systems. To systematize the transferred knowledge, skills an competencies on program excursions. Group performance of projects of EMS systems in territorial units and enterprises.							types of environmental ent of documents. To tal management in an ending on the size and signing environmental knowledge, skills and e of projects of EMS	
Course content	Lecture: National environmental policy, pro-environmental management of the territorial unit and enterprise. Environmental management documents at the national, provincial, district and municipal levels. Instruments of environmental impact analysis in territorial units and enterprises, environmental management systems - characteristics and requirements: system according to ISO 14001, according to EMAS regulation, Cleaner Production Concept, LCA. Financing of environmental management systems, domestic and foreign sources of financing environmental management, ways of applying for financing of environmental management projects. Project: preparation of environmental management documents in territorial units at national, provincial, district and municipal levels. Consideration of management systems								
Teaching methods	Informational and problematic lecture, project and disscussion								
Assessment method	Lecture - written test, Project- realization of ppt cons. systems.								

COURSE DESCRIPTION CARD – SPECIMEN

Symbol of		Reference to the		
learning	Learning outcomes	learning outcomes		
outcome	The student has advanced knowledge in hosis methods of	for the field of study		
EU1	The student has advanced knowledge in basic methods of physicochemical and physical analyses, processes and	IS2_W06		
	phenomena in water and the latest methods of water	IS2_U02		
	treatment.			
	Student knows in an advanced degree - the rules of			
EU2	technology design, systems in environmental engineering,			
	as well as the rules of operation and exploitation of	IS1_W09		
	equipment. The student is able to use scientific, popular-	IS1_009 IS1_U14		
	scientific and branch literature, subject matter norms, legal			
	acts, Internet databases, make proper use of the obtained			
	information, draw conclusions, formulate and present			
	opinions, evaluate and discuss various opinions.			
LO3	Student Is able to analyze and evaluate technical,			
	technological and organizational solutions concerning	IS2_W07 IS2_U09		
	emerging pollution, is able to design, according to the			
	initial assumptions, water and sewage systems adequate to			
	the needs and possibilities, using appropriately selected			
	technologies, methods, tools and materials.			
LO4	She/he knows how to act in an entrepreneurial manner by			
	furthering his/her education and professional competence	IS1_U11		
	and initiating actions to apply his/her knowledge and skills.	IS1_U13		
	He/she can act creatively and entrepreneurially, cooperate			
	in a group and take on different roles in it.			
	The student is able to plan and conduct advanced			
	experiments, including measurements of technical,	IS1_U07		
LO5	technological and operational parameters of equipment			
	used in environmental engineering, interpret the obtained			
	results and draw conclusions.			
	Student Is able to analyze the content of different sources			
LO6	and to critically assess the possibility of their use in	IS1_K01 IS2_K05		
	professional practice.			
	She/he is prepared to consciously apply non-technical aspects of engineering activities and to take into account			
	their impact on the environment and the associated			
	responsibility for own decisions			
Symbol of		Type of tuition durin		
learning	Methods of assessing the learning outcomes	which the outcome i		
outcome		assessed		
L01	Written testt	L		
LO2	Written test, project	L, P		
LO3	Written test, project	L, P		
LO4	Written test, project	L, P		
L05	Written test, project	L, P		
LO6	Written test	L		

	No. of hours					
	Participation at the lecture	15				
Calculation	Participation at project classes	30				
	Preparation for exam	15				
	Preparation for project, making homwork	15				
	Preparation for final project	10				
	Consultation with teacher	10				
	TOTAL:	195				
	HOURS	No. of ECTS credits				
Student workload – activities that require direct teacher participation		55	2			
	25	1				
Basic references	 ENVIRONMENTAL MANAGEMENT JOHN PALLISTER TEACHING GUIDE A Core Text for O Level and IGCSE Environmental Management and Development CJ Barrow 					
Supplementary references	 Environmental.Management.Sustainable.Development CJ Barrow Environmental Management Strategies: The 21st Century Perspective G. Crognale 					
Organisational unit conducting the course	Department of Technology in Env. Engineering	Date of issuing the programme				
Author of the programme	prof. Iwona Skoczko	14.11.2019				

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

S – seminar