COURSE DESCRIPTION CARD – SPECIMEN

		Facu	Ity of C	Civil E	nginee	ring ar	nd Env	ironmental Science	es			
Field of study								Degree level and programme type				
Specialization/ diploma path								Study profile	Academic profile			
Course name	Environmental management system in						n in	Course code	IS-FCEE-00263W			
	the organisation							Course type	Erasmus			
Forms and	L	С	LC	Р	SW	FW	S	Semester	winter			
number of hours of tuition	15			15				No. of ECTS credits	4			
Entry requirements					E	Enviro	nment	al protection	protection			
Course objectives	The aim of education is to get the students theoretical knowledge of the environmental management system according to DIN EN ISO 14001 and preparation, in the framework of project activities, to implement such a system in local government units and other organizations											
Course content	Characteristics of management systems according to international standards organization ISO. Elements of an environmental management system (EMS) in accordance with the requirements of ISO 14001 and the EU regulation 761/2001 EMAS. Identification of environmental aspects, as an essential element of planning environmental management system. Rules for the implementation of environmental management system in local government units and other organizations. Procedures for environmental management system audit according to ISO 19011. Documentation system. The costs and benefits associated with the implementation and operation of the environmental management system. The procedure for certification of ems. Methods and indicators for assessing the environmental activities - operational and investment. Methods and principles of integration of management systems: quality management system, environmental management system and occupational health and safety management system.											
Teaching methods	problem lecture, case study, project preparation											
Assessment method	oral exam, project assessment											
Symbol of learning outcome							Reference to the learning outcomes for the field of study					
L01			knowl nt syste	-	egardin	ng the e	environ	nmental K_W05				
LO2	Stude	ent kno	ws the	rules a	•			ed to the EMS	K_W13			
LO3			ble to i	•		o the e	nvironr	ment and use	K_U08			

LO4	Student can make use of appropriate tools and procedures relating to environmental management and economics	K_U12					
LO5	Student is aware of the importance and understanding of the non-technical aspects and effects of engineering activities, including its impact on the environment and the associated responsibility for decisions	K_K02					
LO6	Student is able to contribute to the preparation of social projects, taking into account environmental, legal and economic aspects	K_K05					
Symbol of		Type of tui	tion during				
learning	Methods of assessing the learning outcomes	which the outcome is					
outcome	· ·	assessed					
L01	oral exam, project assessment	L, P					
LO2	oral exam, project assessment	L, P					
LO3	project assessment	P					
LO4	project assessment	Р					
LO5	project assessment	P					
LO6	project assessment	P					
LOU	project assessment	Г					
	Student workload (in hours)	No. of	hours				
	lecture attendance	1	5				
	participation in classes, laboratory classes, etc.	15					
	preparation for classes	45					
Calculation	participation in student-teacher sessions related to the classes	1					
	preparation for and participation in exams	6					
	TOTAL:						
	Quantitative indicators	HOURS	No. of ECTS credits				
Student worl	Student workload – activities that require direct teacher participation 32						
	Student workload – practical activities	67	2,6				
Basic references	 Standard ISO 14001:2015 Environmental management system guidance for use Standard ISO 14004:2016 Environmental management system implementation ISO 19011:2018 Guidelines for auditing management systems 	•					
Supplementary references	A Model Environmental Management System for Local Governme 2007.	ents, Ed. by T	CEQ,				
Organisational unit conducting the course	Department of Energy – Efficient Construction and Geodesy		suing the amme				
Author of the programme	PhD. Eng. Elzbieta Broniewicz, Assoc. Professor	02.02.2022					

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