

COURSE DESCRIPTION CARD

Faculty of Civil and Environmental Science									
Field of study								Degree level and programme type	
Specialization/ diploma path								Study profile	Academic profile
Course name	Environmental administration and management							Course code	IS-FCEE-00222W
								Course type	Erasmus
Forms and number of hours of tuition	L	C	LC	P	SW	FW	S	Semester	winter
	15			30				No. of ECTS credits	4
Entry requirements	Ecology, environmental protection								
Course objectives	The basic principles and documents of environmental management in territorial units. Types of environmental management, design principles and content of documents. Basic systems of environmental management in the industrial organization. Principles of system selection depending on the size and type of production. Systematization of the knowledge, skills and competences. Team work on projects of EMS systems.								
Course content	Lecture: Ecological policy , pro-ecological management of the territorial unit and the business companies. Documents of environmental management. Instruments of analysis and impact on the environment in territorial units and enterprises, environmental management systems - characteristics and requirements: according to ISO 14001, EMAS, Cleaner Production Concept, LCA. Financing of environmental management systems, ways of applying for financing. Project: documents of environmental management in territorial units, preparation of environmental management documents for local authorities, analysis of development strategies, tax system, ecological charges and penalties. Pre-preparation for environmental management systems design in industrial plants. Analysis of an application for environmental management projects.								
Teaching methods	Lecture – presentation, discussion with students, project- case study								
Assessment method	Lecture – final test, project- case study assessment								
Symbol of learning outcome	Learning outcomes							Reference to the learning outcomes for the field of study	
LO1	he student has knowledge in the field of the latest development trends and technologies present in environmental engineering; student is able to							IS2_W06 IS2_U02	

	use his/her knowledge to critical analysis, synthesis, creative interpretation and presentation of issues in of environmental engineering		
L02	The student is familiar with legal, economic and institutional conditions related to environmental engineering; he/she can use scientific, popular and branch literature, norms, legal acts, internet databases; he/she can appropriately use acquired information, as well as formulate and present opinions	IS2_W07 IS2_U09	
L03	The student is able to act in an entrepreneurial manner by learning and improving his/her professional competence, and to initiate actions in order to use their knowledge and skills	IS2_U11	
L04	The student is able to act creatively and entrepreneurially, cooperate and work in a group, taking various roles in it.	IS2_U12	
L05	The student is prepared to consciously apply non-technical aspects of engineering activities and taking into account its impact on the environment and related responsibility for taking decisions	IS2_K05	
L06	The student is ready to use knowledge to shape the ecological awareness of the society, professional and ethical and take responsibility for his/her actions	IS2_K02	
Symbol of learning outcome	Methods of assessing the learning outcomes	Type of tuition during which the outcome is assessed	
L01	Final test	L	
L02	Final test, project	L,P	
L03	Final test, project	L,P	
L04	Final test, project	L,P	
L05	Final test, project	L,P	
L06	Final test, project	L,P	
Student workload (in hours)		No. of hours	
Calculation	Attendance at lectures	15	
	Attendance at project classes	30	
	Preparation for final test	10	
	Preparation for project	20	
	Preparation for project defence	15	
	Consultations with the teacher	5	
		TOTAL:	90
Quantitative indicators		HOURS	No. of ECTS credits
Student workload – activities that require direct teacher participation		50	2

Student workload – practical activities		45	2
Basic references	<ol style="list-style-type: none"> 1. T O’Riordan, Environmental science for environmental management School of Env. Sc. Univ. 2014 2. Richard Welford, Corporate Environmental Management 1: Systems and strategies, Earthscan 2014 3. Robert Costanza, Ecosystem Health: New Goals for Environmental Management, IslandPress 1996 		
Supplementary references	<ol style="list-style-type: none"> 1. Chris Barrow, Environmental Management for Sustainable Development, T&F 1996 2. Carl; Bernstei, Toward environmental strategies for cities : policy considerations for urban environmental management in developing countries, Urban Management Programme by The World Bank, Washington, 1995 3. Angharad H. Porteous Sonali V. Rammohan Hau L. Lee, Carrots or Sticks? Improving Social and Environmental Compliance at Suppliers Through Incentives and Penalties, Wiley and group, POMS 2015 		
Organisational unit conducting the course	Department of Technology in Environmental Engineering	Date of issuing the programme	
Author of the programme	Professor Iwona Skoczko	2021.03.15	

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

S – seminar