

## COURSE DESCRIPTION CARD – SPECIMEN

Faculty of Civil Engineering and Environmental Sciences										
<b>Field of study</b>								<b>Degree level and programme type</b>		
<b>Specialization/ diploma path</b>								<b>Study profile</b>	<b>Academic profile</b>	
<b>Course name</b>	<b>Environmental Impact Assessment</b>							<b>Course code</b>	<b>IS-FCEE-00101W</b>	
								<b>Course type</b>	<b>Erasmus</b>	
<b>Forms and number of hours of tuition</b>	<b>L</b>	<b>C</b>	<b>LC</b>	<b>P</b>	<b>SW</b>	<b>FW</b>	<b>S</b>	<b>Semester</b>	<b>winter</b>	
	15				30			<b>No. of ECTS credits</b>	<b>4</b>	
<b>Entry requirements</b>	-									
<b>Course objectives</b>	Learning outcomes - understanding the importance of the EIA procedure in environmental protection; Ability to participate in local EIA implementation; Protection of habitats (protection of habitats - ornithofauna, vegetation) protection of surface and groundwater, protection of soils, air protection, protection against noise, vibration and electromagnetic non-ionizing radiation, landscape protection, toxicology, waste management, basics of burning, basis for decision support									
<b>Course content</b>	Understanding the negative impact of the industry on the environment and the selection of technologies that minimize anthropopression. Evaluation of applied technologies in terms of pure production. Impact of installation on the environment. BAT - best available techniques. Renewable energy sources. Product life cycle. Pure production. Polish and international rules and regulations concerning the conduct of environmental impact assessments (EIA). Categories of nuisance of undertakings. The role of the investor and environmental services in the EIA procedure. Principles of sozotechnical negotiations. Value localization and technology. Qualification procedures and selected computing quantifications. Maximal Impact Assessment Systems. Forecasts of the effects of selected policies, strategies, plans of programs Rules for reporting environmental impact of selected municipal and breeding facilities.									
<b>Teaching methods</b>	Lecture, project									
<b>Assessment method</b>	Lecture - written exam; Project - project execution, presentation and discussion on the project;									
<b>Symbol of learning outcome</b>	<b>Learning outcomes</b>							<b>Reference to the learning outcomes for the field of study</b>		

L01	Student is able to develop an environmental impact assessment for a given engineering facility.	K_W09
L02	Student can name and explain existing and planned legal requirements in the area of environmental protection.	K_W014, K_W016
L03	Student is able to identify the most important elements in the environment in environmental engineering.	K_U09
L04	Student knows and is able to analyze issues related to the implementation of "Cleaner Technologies" in objects and technical systems related to environmental engineering.	K_U16
L05	Student can indicate, compare and analyze the best available technologies (BAT).	K_U20
L06	Student is able to carry out the task in the group and determine the validity and priorities during the EIA procedure.	K_K04
<b>Symbol of learning outcome</b>	<b>Methods of assessing the learning outcomes</b>	<b>Type of tuition during which the outcome is assessed</b>
L01	Project task documentation + attached file with calculations and presentation	P
L02	Lecture exam	L
L03	Observation of work on exercises + Project task documentation	P
L04	Presentation and discussion on the project	P
L05	Project task documentation + attached file with calculations and presentation	P
L06	Lecture test + documentation of the project task	L, P
<b>Student workload (in hours)</b>		<b>No. of hours</b>
<b>Calculation</b>	lecture attendance	15
	participation in classes, laboratory classes, etc.	30
	working on projects, reports, etc.	20
	participation in student-teacher sessions related to the classes/seminar/project	10
	implementation of project tasks (including presentation preparation)	10
	preparation for and participation in exams/tests	10
<b>Quantitative indicators</b>		<b>HOURS</b>
<b>Student workload – activities that require direct teacher participation</b>		<b>57</b>
<b>Student workload – practical activities</b>		<b>70</b>
<b>Basic references</b>	Eccleston, Charles H. Environmental Impact Assessment: A Guide to Best Professional Practices, CRC Press, 2011. Tromans S. Environmental Impact Assessment, Bloomsbury Professional; 2nd Revised edition edition, 2012.	
<b>Supplementary references</b>	Daniel, S., Tsoufias, G., Pappis, C., & Rachaniotis, N. Aggregating and evaluating the results of different Environmental Impact Assessment methods Ecological indicators, 2004.	

<b>Organisational unit conducting the course</b>	Department of Technology in Environmental Engineering	<b>Date of issuing the programme</b>
<b>Author of the programme</b>	Msc Eng Ewa Szatyłowicz	01.12.2019

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