COURSE DESCRIPTION CARD - SPECIMEN

<table>
<tr><td colspan="10">Faculty of Civil Engineering and Environmental Sciences</td></tr>
<tr><td rowspan="2">Field of study</td><td colspan="5" rowspan="2">Environmental engineering</td><td colspan="2">Degree level and programme type</td><td colspan="2">first degree;
stationary</td></tr>
<tr><td colspan="2">Specjalization/diploma path</td><td colspan="5"></td><td colspan="2">Study profile</td><td colspan="2">academic</td></tr>
<tr><td rowspan="2">Course name</td><td colspan="5" rowspan="2">Environmental impact assessment</td><td colspan="2">Course code</td><td colspan="2">Ś16241/A</td></tr>
<tr><td colspan="2">Course type</td><td colspan="2">Optional</td></tr>
<tr><td rowspan="2">Forms and number of hours of tuition</td><td>L</td><td>C</td><td>LC</td><td>P</td><td>SW</td><td>FW</td><td>S</td><td>Semester</td><td>6</td></tr>
<tr><td>15</td><td>30</td><td></td><td></td><td></td><td></td><td></td><td>No. of ECTS credits</td><td></td></tr>
<tr><td>Entry requirements</td><td colspan="9"></td></tr>
<tr><td>Course objectives</td><td colspan="9">General objective: To familiarize students with the procedures and proceedings regarding environmental impact assessment. Specific objectives: Legal principles of environmental protection and environmental impact assessments. Origin and nature of the proceeding regarding environmental impact assessment. Strategic EIA procedures, project environmental impact assessment (EIA), project impact assessment on Natura 2000 areas.</td></tr>
<tr><td>Course content</td><td colspan="9">Problems of lecture 1. Environmental protection principles and environmental impact assessment. 2. Origin and nature of the proceeding regarding environmental impact assessment. 3. Proceedings regarding environmental impact assessments (strategic EIA procedure, EIA procedure for projects, project impact assessment on Natura 2000 areas). 4. Proceedings regarding transboundary environmental impact of projects that may always have significant environmental effects. 5. Decision on environmental conditions (proceedings regarding the issue, procedure, parties, deadlines). 6. Public participation in the EIA procedure. 7. Methods used in the EIA (check list for EIA / Natura 2000 documentation, variants in the EIA procedure, check list used when determining the scope of research for the purpose of the EIA expertise, Leopold matrix). Auditorium exercises - Building a model procedure for environmental</td></tr>
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	impact based on environmental information contained in the report on the environmental impact of investments. Analysis of selected investments.	
Teaching methods	**Problem lecture, project exercises**	
Assessment method	**Lecture - written exam, oral exam, exercises - preparation and defense of project work**	
Symbol of learning outcome	**Learning outcomes**	**Reference to the learning outcomes for the field of study**
LO1	Has basic knowledge about: - legal conditions when making decisions related to environmental protection for newly emerging projects and plans, programs and policies, - public participation in environmental protection. Is able to explain the purpose and benefits of environmental impact assessments.	**IS2_W01**
LO2	Knows the rules for issuing decisions on environmental conditions for consent to implement a project. Knows the basic principles of assessing the impact of various types of investments on the natural environment, in particular knows methods of identifying impacts, methods of forecasting the size of impacts and assessing the overall impact of various variants on the environment.	**IS2_W02**
LO3	The student uses environmental protection instruments, including the concept of sustainable development, in communication with the socio-economic environment; recognizes and attempts to solve, in the form of documented studies, problems of environmental quality and human life, and sustainable development.	**IS2_U02**
LO4	Is able to plan and carry out an environmental impact assessment of a project. Analyzes and assesses the environmental effects of human activities and also finds ways to minimize impacts and is able to indicate the need for environmental monitoring for the analyzed activity.	**IS2_U07**
LO5	Uses mathematical methods and IT techniques to forecast the size of impacts and environmental effects. Uses scientific literature in the field of environmental sciences, with particular emphasis on electronic sources. Has the ability to write a report on the impact of the project on the environment.	**IS2_U08**
LO6	Is able to properly define the work plan and schedule when preparing a report on the impact of the project on the environment.	**IS2_K02**

	Demonstrates care for the high quality of the report being prepared and is aware of the responsibility for the reliability of its implementation, in particular he is aware of the effects of administrative decisions issued based on unreliable studies. It adheres to the principle of respect for copyrights when preparing the report on the environmental impact of the project. Is able to determine his contribution to the report being prepared and indicate the difficulties encountered in its preparation due to a lack of knowledge or technology. Knows and appreciates the practical application of acquired knowledge and skills in solving problems	
Symbol of learning outcome	**Methods of assessing the learning outcomes**	**Type of tuition during which the outcome is assessed**
LO1	**project implementation**	**C**
LO2	**project implementation**	**C**
LO3	**project implementation**	**C**
LO4	**project implementation**	**C**
LO5	**project implementation**	**C**
LO6	**exam**	**L**
Student workload (in hours)		**No. of hours**
Calculation	**participation in exercises**	**30**
	Participation in lectures	**15**
	preparation for classes, homework	**15**
	project defense	**1**
	participation in consultations	**4**
	TOTAL:	**65**

Quantitative indicators	**HOURS**	**No. of ECTS credits**
Student workload - activities that require direct teacher participation	**45**	
Student workload – practical activities	**20**	

Basic references	1. Robaszewska R., Płoszka M., Kałuża D., Wach P., Decyzje środowiskowe, Wolters Kluwer, Warszawa 2015. 2. Ciechanowicz-McLean J., Prawo ochrony i zarządzania środowiskiem, Difin, Warszawa 2015. 3. Federczyk W., Foger A., Kosieradzka-Federczyk A., Prawo ochrony środowiska w procesie inwestycyjno-budowlanym, Wolters Kluwer, Warszawa 2015. 4. Rakoczy B., Wierzbowski B., Prawo ochrony środowiska. Zagadnienia podstawowe, Wolters Kluwer, Warszawa 2015. 5. Poskrobko B., Poskrobko T., Zarządzanie środowiskiem w Polsce, PWE, Warszawa 2012. 6. Pchałek M., Behnke M., Postępowanie w sprawie oceny oddziaływania na środowisko w prawie polskim i UE, C.H. Beck, 2009.	
Suplementary references	1. Sas-Bojarska A., Przewidywanie zmian krajobrazowych w gospodarowaniu przestrzenią z wykorzystaniem ocen oddziaływania na środowisko na przykładzie transportu drogowego, Gdańsk 2006 2. Nowakowski T. ,Podedworna-Łuczak M., Raport o oddziaływaniu na środowisko dróg i autostrad : poradnik prawno-metodyczny, Warszawa: Wydawnictwo Seidel-Przywecki, 2009 3. W. Lenart Zakres informacji przyrodniczych na potrzeby Ocen Oddziaływania na Środowisko, EKO-KONSULT, Gdańsk 2002 4. Kawałczewska J., Poradnik ochrony środowiska dla małych i średnich przedsiębiorstw Ekokonsult, Gdańsk 2006 **5.** Ciechelska A.Oceny oddziaływania jako narzędzie realizacji zrównoważonego rozwoju, Białystok, Wydawnictwo Ekonomia i Środowisko, 2009	
Organisational unit conducting the course	**Department of Technology in Environmental Engineering**	**Date of issuing the programme**
Author of the programme	**dr inż. Lech Magrel**	**05.03.2020**

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