COURSE DESCRIPTION CARD - SPECIMEN

<table>
<tr><td colspan="10">Faculty of Civil Engineering and Environmental Sciences</td></tr>
<tr><td>Field of study</td><td colspan="6">Landscape architecture</td><td>Degree level and programme type</td><td>first degree;
stationary</td></tr>
<tr><td>Specjalization/diploma path</td><td colspan="6"></td><td>Study profile</td><td>academic</td></tr>
<tr><td rowspan="2">Course name</td><td colspan="6" rowspan="2">Economics and management in landscape architecture</td><td>Course code</td><td>AK1S61056</td></tr>
<tr><td>Course type</td><td></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>15</td><td></td><td></td><td></td><td></td><td></td><td>No. of ECTS credits</td><td>6</td></tr>
<tr><td>Entry requirements</td><td colspan="9"></td></tr>
<tr><td>Course objectives</td><td colspan="9">The student knows the stages of the investment process and its participants. Distinguishes and knows the basic methods of assessing the economic effectiveness of investment projects. Knows the principles of managing forms of nature protection. He knows the path of obtaining location decisions and building permits in valuable natural areas.</td></tr>
<tr><td>Course content</td><td colspan="9">Lecture
- Phases of the investment process and its participants. Relations between participants of the investment process. Documentation of investment process phases. Simple and developed methods for assessing the economic efficiency of investment projects. Cost effectiveness analysis. Investment outlays and methods of determining them. Managing areas with various forms of nature protection. The cost estimate of the investment. The rules of taking down and costing works. Calculation of works costs. Investment estimate.
Exercises – Performing an analysis of a given investment in terms of obtaining an environmental decision, development conditions and land use permits in areas with various forms of nature protection. Performing applied technological calculations, balances and costs of</td></tr>
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	construction and operation of a given investment. Presentation and defense of the developed undertaking	
Teaching methods	Problem lecture, exercises	
Assessment method	Lecture – written test; exercises – preparation and defense of the developed investment	
Symbol of learning outcome	**Learning outcomes**	**Reference to the learning outcomes for the field of study**
L1	knows and describes the legal conditions related to economics and management in the context of new ventures, plans, programs and policies; understands the importance of public participation in environmental protection processes	**AK_W03**
L2	Knows the principles of management and economic bases for issuing decisions on environmental conditions of consent to implement a project, building permits. Has knowledge of cost analysis methods and assessment of the overall impact of various factors on making an investment decision. Has basic theoretical knowledge and detailed knowledge of the principles of economics and management in landscape architecture.	**AK1_W11**
L3	Is able to use economic instruments in communicating with the socio-economic environment; recognize and attempt to solve, in the form of a documented study, problems of the quality of the environment and human life and sustainable development.	**AK1_U01**
L4	Is able to plan and conduct an economic evaluation of a project; analyze and assess the risk for the analyzed investment.	**AK1_U07**
L5	Is able to critically evaluate the knowledge he/she possesses, recognize its importance in solving cognitive and practical problems, and recognize the need to seek expert opinions in the event of difficulties and doubts when solving problems independently	**AK1_K04**

Symbol of learning outcome	Methods of assessing the learning outcomes	Type of tuition during which the outcome is assessed
L1	Test pass, project preparation	Problem lecture, exercises
L2	Test pass, project preparation	Problem lecture, exercises
L3	Test pass, project preparation	Problem lecture, exercises
L4	Test pass, project preparation	Problem lecture, exercises
L5	Test pass, project preparation	Problem lecture, exercises

Student workload (in hours)		No. of hours
Calculation	participation in exercises	15
	Participation in lectures	15
	preparation for classes, homework	15
	project defense	1
	participation in consultations	4
	TOTAL:	50

Quantitative indicators	HOURS	No. of ECTS credits
Student workload - activities that require direct teacher participation	30	3
Student workload – practical activities	20	

Basic references	1. Grontkowska A. 2012. Działalność gospodarcza w architekturze krajobrazu. Wyd. Hortpress. sp. o.o., Warszawa. 2. Piasecki B. 2001. Ekonomika i zarządzanie małą firmą. Wyd. PWN, Warszawa. 3. Ekonomika i zarządzanie ochroną środowiska dla inżynierów. Podręcznik pod redakcją E. Broniewicz, J. Godlewskiej i R. Miłaszewskiego, Wyd. Politechniki Białostockiej, Białystok 2009.

	4. Zarządzanie środowiskiem, B. Poskrobko (red.), PWE, Warszawa 2007. 5. Koźmiński A., Piotrkowski W. (red.), (2013). Zarządzanie, Teoria i praktyka. PWN, Warszawa.	
Suplementary references	1. J. Ejdys, U. Kobylińska, A. Lulewicz: Zintegrowane systemy zarządzania jakością, środowiskiem i bezpieczeństwem pracy. Teoria i praktyka, Wyd. Politechniki Białostockiej, Białystok 2006. 2. Zarządzanie środowiskiem w przedsiębiorstwie, A. Graczyk (red.), Wyd. Uniwersytetu Ekonomicznego we Wrocławiu, Wrocław 2008. 3. Hermaniuk T., (2014). Biznesplan: pytania i odpowiedzi, Difin, Warszawa. 4. Milewski R., Kwiatkowski E., (2018). Podstawy ekonomii, PWN, Warszawa.	
Organisational unit conducting the course	**Department of Technology in Environmental Engineering**	**Date of issuing the programme**
Author of the programme	**dr inż. Lech Magrel**	**06.05.2025**

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