Faculty of Civil Engineering and Environmental Sciences											
Field of study	Environmental Engineering						Degree level and programme type	Bachelor of Engineering degree			
Specialization/ diploma path	Sanitary networks, installations and equipment Stu							Study profile	academic profile		
Course name	HES II Sustainable development and civilization threats							Course code	EE1S21061		
								Course type	-		
Forms and number of hours of tuition	L	С	LC	Р	SW	FW	S	Semester	summer		
	15	15						No. of ECTS credits	3		
Entry requirements							-				
Course objectives	Introducing students to the principles and laws of sustainable development, international conventions and protocols. Indication of civilizational threats in the modern world on a global and local scale.										
Course content	The basics of sustainable development. Earth Summit 1992 (Rio Declaration, Agenda 21, Convention on Climate change, Convention on Biological Diversity, Declaration on the principles of forest management). Principles and laws of sustainable development. Sustainable development indicators. Global and local causes of civilization threats (demographic growth, development of technology, development of world agriculture, natural hazards to human health)										
Teaching methods	lecture, class										
Assessment method	lecture - test; classes - evaluation of presentation										
Symbol of learning outcome	Learning outcomes       Reference to the         Iearning outcomes       Iearning outcomes         for the field of study								Reference to the learning outcomes for the field of study		
L01	has knowledge about the implementation of the principles of IS1_W12								IS1_W12		
LO2	knows the goals outlined by international conventions and protocols as well as programs to reduce anthropogenization of the environment										
LO3	has k local	nowled scale	dge and	d asse	sses ci	vilizatio	on threa	ats on a global and IS1_W12, IS1_K02			
LO4	know	vs and i	s able	to app	ly susta	ainable	develo	opment indicators IS1_W12, IS1_U17, IS1_K07_			

Symbol of learning outcome	Methods of assessing the learning outcomes	Type of tuition during which the outcome is assessed					
L01	test	L					
LO2	test	L					
LO3	evaluating the student's presentation	С					
LO4	test	L					
	No. of hours						
Calculation	participation in lecture, classes, laboratory classes, etc.	30					
	work on projects, reports, etc.	30					
	participation in student-teacher sessions related to the class / seminar / project	5					
	preparation for and participation in exams/tests	5					
	TOTAL:	70					
	HOURS	No. of ECTS credits					
Student worl	35	1.5					
	35	1.5					
Basic references	<ol> <li>Allam A. World sustainable development outlook 2015 : green behavior : re-thinking policy for sustainability. Brighton: World Association for Sustainable Development, 2015.</li> <li>Bazyli P. Towards the theory of sustainable development. Bialystok; Warsaw : Bialystok School of Economics, 2007.</li> <li>Carley M., Christie I. Managing sustainable development. London, Earthscan Publications, 2000.</li> </ol>						
Supplementary references	1. Borys T. Indicators for sustainable development : Polish experiences. Wyd. Ekonomia i Środowisko, 2005. 2. Żylicz T. Challenges of sustainable development in Poland. 2010, on-line:https://sendzimir.org.pl/en/publications/challenges-of-sustainable-development-in-poland-textbook/						
Organisational unit conducting the course	Department of Technology in Environmental Engineering	Date of issuing the programme					
Author of the programme	Ph.D., Adam Łukowski	23.02.2023					

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

S – seminar