COURSE DESCRIPTION CARD – SPECIMEN

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Field of study		Envi	ironme	ental E	ingine	ering		Degree level and programme type	Bachelor's degree			
Specialization/ diploma path	International School of Engineering Study profile							Academic profile				
Course name	Sanitary installations							Course code	19284218H/IS1S61046			
					1			Course type	Obligatory			
Forms and number of	L	С	LC	P	SW	FW	S	Semester	VI			
hours of tuition	2	•	•	2	•	-	•	No. of ECTS credits	4			
Entry requirements	Water supply systems, hydraulics											
Course objectives	Developing knowledge about the components and design of water and sanitary installations in buildings. Developing knowledge about the solutions in material used in building installations. Developing skills for determining type of installation in buildings, depending on the size and use of the building.											
Course content	Design, construction, operating of water, sanitary. Legal regulations related to design of building installations.											
Teaching methods	informative lecture, conversational lecture, discussing the problem, project											
Assessment	lecture – written test											
method	project - project execution											
Symbol of		-	-						Reference to the			
learning	Learning outcomes						learning outcomes for					
outcome									the field of study			
L01	Stude	ent def	ines th	e type:	s of ins	tallatio	ns in b	uildings	K_W14			
LO2	Student describes the elements of the installations in buildings					K_W14						
LO3	Student classifies the materials in building installations K_U07					K_U07						
LO4	Student manages the procedures for construction of building installations K_U18						K_U18					
LO5	Stude	ent not	es the	proble	ms ope	ration	of build	ding installations	K_U19			
	Stude	ent ass	esses	the im	pact of	improp	er fun	ctioning of the				
LO6		llation						cuoning of the	K_K02			
LO6 Symbol of learning outcome	instal	Met	hods o	of asse	essing	the lea	ırning	outcomes	K_K02 Type of tuition during which the outcome is assessed			
Symbol of learning	instal		hods o	of asse	essing	the lea	nrning	•	Type of tuition during which the outcome is			

LO3	written test, project execution	L,	P		
LO4	written test, project execution	L,	P		
LO5	written test	L			
LO6	written test	L			
	Student workload (in hours)	No. of hours			
	lecture attendance	3	2		
	participation in classes, laboratory classes, etc.	32			
	preparation for classes, laboratory classes, projects, seminars, etc.	16			
Calculation	working on projects, reports, etc.	16			
	participation in student-teacher sessions related to the classes/seminar/project	5			
	implementation of project tasks	8			
	preparation for and participation in exams/tests	8			
	TOTAL:	117			
	HOURS	No. of ECTS credits			
Student work	cload – activities that require direct teacher participation	69 2,8			
	Student workload – practical activities 85				
Basic references	 Wise A.F.E., Swaffield J., Water, Sanitary and Waste Services 2012; Panchdhari A.C., Water Supply And Sanitary Installations, New 3. Garrett R.H., Hot and Cold Water Supply, Wiley, 2000. 	v Age Interna	tional,2005;		
Supplementary references	1. Bartram J., Legionella and the Prevention of Legionellosis Organization, 2007	, World Heal	th		
Organisational unit conducting the course	Department of Water Supply and Sewerage	Date of issuing the programme			
Author of the programme	Jacek Dawidowicz, PhD DSc Eng.	10.05.2022			

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

S – seminar