

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Buildins Installations II, PG_00062607								
Field of study	Civil Engineering								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of de	Mode of delivery			at the university		
Year of study	2		Language of instruction		Polish				
Semester of study	4					3.0	3.0		
Learning profile	general academic pro	ofile	Assessment form		assessment				
Conducting unit	Department of Sanita	ry Engineering	-> Faculty of (Civil and Enviro	nmenta	l Engin	eering		
Name and surname of lecturer (lecturers)	Subject supervisor Teachers		dr hab. inż. Jakub Drewnowski						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	0.0	15.0		0.0	30	
	E-learning hours inclu	uded: 0.0							
Learning activity and number of study hours	Learning activity	Participation i classes incluc plan		Participation i consultation h		Self-study		SUM	
	Number of study hours	30		0.0		0.0		30	
Subject objectives	The aim of the course construction, their us solutions and technol Construction	e, construction,	design princip	oles, advantage	s and d	isadvar	ntages of the	different	

Learning outcomes	Course outcome	Subject outcome	Method of verification			
	[K6_W06] Demonstrates practical knowledge and understanding of materials, devices and tools, processes and technologies in the field of civil engineering (and their limitations).	The student understands the effects of a sanitary engineer's activities, the impact on the environment and the associated responsibility for the decisions made.	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
	[K6_W03] Demonstrate knowledge and understanding of the processes, established standards and design methods in the civil engineering subject area and of their limitations.	The student is able to find and properly use sources of information, legal acts and standards relating to the problem area of designing sanitary installations and networks	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
	[K6_U03] Design engineering objects and details, processes and engineering systems by applying appropriate standards and methods of design.	. The student is able to use the acquired knowledge in the field of basic sciences in order to understand the principles of operation and practical application of this knowledge in the use of computer technology in the design of sanitary installations and networks.	[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	[K6_U04] Reads and prepares construction documentation (including drawings, graphic documentation in the CAD environment), efficiently uses maps as well as architectural, construction and geodetic drawings.	A student of civil engineering, while designing the structure of a building, analyzes and describes the most appropriate solutions and technologies in the field of necessary building installations. In this way, it establishes a partnership dialogue with the specialists who design these installations.	[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools			
Subject contents	LECTURES: Municipal infrastructure solutions for drinking water supply sy protection systems Heating installati emphasis on central heating, heat so Project: Plumbing Details of cold wa systems: utensils, materials, design vacuum installation, design principle installation solutions.	ons (division, materials and technica ubstation room). ter installations, information on hot w principles. Rainwater drainage syste	gs with water, materials used). Fire I solutions used, with particular rater solutions Sanitary sewer ms: traditional solutions and			
Prerequisites and co-requisites	Completed basic program in the field	npleted basic program in the field of general construction.				
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Colloquium and project passing	60.0%	100.0%			
Recommended reading	Basic literature	 Sosnowski S., Tabernacki J., Chudzicki J.: Instalacje wodociągowe i kanalizacyjne. Wyd. Instalator Polski, Warszawa, 2000. Poradnik: Instalacje wodociągowe, kanalizacyjne i gazowe. Praca zbiorowa pod red. M. Chudzickiego, Arkady, Warszawa,1976. 				
	Supplementary literature	1. Katalogi wyrobów i firmowe poradniki dla projektantów: Geberit, PipeLife, Wavin, LPM Danfoss, COMAP, PURMO, KanTherm, PoWoGaz S.A., Metron, AQUATHERM, Cuprum, COPRAX, ROCKWOOL, Thermaflex i in.;				
		 Obowiązujące normy, przepisy i wytyczne, a w szczególności: Warunki Techniczne Wykonania i Odbioru Robót Budowlano Montażowych, Tom II: Instalacje Sanitarne i Przemysłowe, ARKADY, Warszawa 1988 oraz Wymagania Techniczne COBRTI INSTAL zeszyt 1-10, Warszawa, 1999 do 2005. 				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	systems. Fire protection systems in	em to the municipal water supply line buildings. Gas installations, materials n. Heating systems division regulatio	s, gas meters. Hot water			

Work placement

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