

Subject card

Subject name and code	Building Pipe and Wire Systems, PG 00044393								
Field of study	Civil Engineering								
Date of commencement of	, , , , , , , , , , , , , , , , , , ,								
studies	October 2020		Academic year of realisation of subject			2021/2022			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Part-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Sanitary Engineering -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor		dr inż. Ryszard Orłowski						
of lecturer (lecturers)	Teachers		dr inż. Ryszard Orłowski						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	10.0	5.0	0.0	0.0	0.0		15	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation i consultation h		Self-study S		SUM	
	Number of study hours	15		5.0		30.0		50	
Subject objectives	The purpose of the subject is familiarization students with some individual kind of sanitary networks and installation, construction of these systems, employment, project principles, advantages and disadvantages of individual solutions and technologies and taking advantage of this knowledge in professional practice of civil engineer.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W01] has knowledge of selected branches of mathematics, physics and chemistry, which is a base of construction subjects, such as construction theory and material technology and id needed to formulate and solve typical problems of civil engineering		During structural design of a building student of building engineering analyzes and describes the most proper solutions and technologies in the area of necessary installations. In this way he undertakes based on partnership dialogue with some specialists who are designing these installations.						
	[K6_W11] Knows selected software supporting the calculation and design of construction as well as construction management		Student owns some basic knowledge from a range of utilization of computer technique in project design of sanitary installation in civil engineering.						
Subject contents	LECTURES Outdoor networks of municipal infrastructure. Indoor installations: types, adequate designs. Basic types of installations inside buildings conveying water for human consumption (manners of supplying water, installation materials). Fire protection systems. Heating systems (types, applied installation materials and technical solutions, firstly taking into account central heating systems and room of heat distribution centre). EXERCISES Details of cold water and hot water supply installations. Sewage system installation, sanitary fittings, materials, design rules. Systems of rain-water installation; traditional, vacuum installations, materials used, design rules. Gas installation; types, details, design rules.								
Prerequisites and co-requisites	Passed the basic program in the area of building engineering.								
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade				
and criteria	participation in lectures and classes (webinarium)		55.0%			20.0%			
	final test		60.0%			80.0%			

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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. Catalogues edited by the producers: "Geberit", "PipeLife", "Wavin", "LPM Danfoss", "COMAP", "PURMO", "KanTherm", "PoWoGaz S.A.", "Metron", "AQUATHERM", "Cuprum", "COPRAX", "ROCKWOOL", "Thermaflex" i in.;				
		2. Legal regulations, and specially: 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					
Example issues/ example questions/ tasks being completed	Connection of water-supply installation for wire of water-supply network. Materials applicable in water-supply installations. Fire-protection installations in buildings.					
	Gas Installations – material, gas meters.					
	Installations of warm waters – classification, regulation.					
	Heating installations – classification, regulation.					
Work placement	Not applicable					

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