

GDAŃSK UNIVERSITY

Subject card

Subject name and code	Communication and visualisation in building management systems, PG_00048444								
Field of study	Automatic Control, Cybernetics and Robotics								
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/	2024/2025		
Education level	second-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the	at the university		
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			1.0			
Learning profile	general academic profile		Assessme	Assessment form			assessment		
Conducting unit	Department of Automatic Control ->		Faculty of Electronics, Telecommunication				and Informa	tics	
Name and surname	Subject supervisor		dr inż. Piotr F	iertek					
of lecturer (lecturers)	Teachers		dr inż. Piotr Fiertek						
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	0.0		0.0	15	
	E-learning hours inclu	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity		articipation in didactic lasses included in study		Participation in consultation hours		tudy	SUM	
	Number of study hours	15		2.0		8.0		25	
Subject objectives	Understanding basic protocols, as well as	nethods of sm methods and p	nart building ma oopular software	I inagement (BN e packages for	IS): com manage	nmonly ement a	used commu and visualiza	I Inication tion.	
Subject objectives	Understanding basic	methods and p	oopular software	e packages for	manage	ement a	used commu and visualiza	inication tion.	
Subject objectives	Understanding basic protocols, as well as The following solution Course out	methods and p	ssed in more d	e packages for etail: LonWork	manage s and B/	ement a	and visualiza	tion. erification	
	Understanding basic protocols, as well as The following solution	methods and p	ssed in more d	e packages for etail: LonWork ject outcome on of the projec SCADA syster	manage s and B/	ACnet.	Method of vo Assessment problems tha	tion. erification of ability to	
	Understanding basic protocols, as well as The following solution Course out	methods and p ns will be discu come d ncreased ion and of stems related including nd complex n them and ues -	ssed in more d Subj Implementation based on the Trace Mode s Getting to kno construction a	e packages for etail: LonWork ject outcome on of the projec SCADA syster software. ow the basics c and operation c on systems in E ecially from	manage s and B/ tt n: f the f	ACnet. [SK5] / solve p practic	Method of ve Assessment problems that Assessment	erification of ability to t arise in	
	Understanding basic protocols, as well as The following solution Course out K7_K02 [K7_W03] Knows an understands, to an ir extent, the construct operating principles components and sys to the field of study, i theories, methods ar relationships betwee selected specific issues	d come d come d terms related ion and of terms related including nd complex n them and ues - urriculum. d ncreased roceased roceased	ssed in more d Subj Implementation based on the Trace Mode s Getting to knot construction a communication systems. Esp LonWorks and Getting to knot construction a	e packages for etail: LonWork ject outcome on of the projec SCADA system of the projec SCADA system of the projec SCADA system on systems in E ecially from d BACnet.	manage s and B, tt n: of the of SMS	ACnet. [SK5] / solve p practic [SW1] knowle	Method of vo Assessment problems that Assessment edge	erification of ability to t arise in of factual	
	Understanding basic protocols, as well as The following solution Course out K7_K02 [K7_W03] Knows an understands, to an ir extent, the construct operating principles components and sys to the field of study, i theories, methods ar relationships betwee selected specific issu appropriate for the c [K7_W05] Knows an understands, to an ir extent, methods of p function support, specific	methods and p ns will be discu come d d oreased ion and of items related ion and of items related ion and of including nd complex n them and ues - urriculum. d oreased rocess and ecific to the mmunication predia ication protoco	ssed in more d Sub Implementatio based on the Trace Mode s Getting to kno construction a communicatio systems. Esp LonWorks an Getting to kno construction a communicatio systems. Esp LonWorks an rotocols	e packages for etail: LonWork ject outcome on of the projec SCADA system of the projec SCADA system of the projec SCADA system on systems in E ecially from d BACnet.	manage s and B, tt n: of the of SMS	ACnet. [SK5] / solve p practic [SW1] knowle	Method of vo Assessment problems that Assessment edge	erification of ability to t arise in of factual	
Learning outcomes	Understanding basic protocols, as well as The following solution Course out K7_K02 [K7_W03] Knows an understands, to an ir extent, the construct operating principles components and sys to the field of study, theories, methods ar relationships betwee selected specific issu appropriate for the c [K7_W05] Knows an understands, to an ir extent, methods of p function support, spe field of study. 1. Basic issues of con 2. Communication mu	methods and p ns will be discu come d d oreased ion and of items related ion and of items related ion and of including nd complex n them and ues - urriculum. d oreased rocess and ecific to the mmunication predia ication protoco	ssed in more d Sub Implementatio based on the Trace Mode s Getting to kno construction a communicatio systems. Esp LonWorks an Getting to kno construction a communicatio systems. Esp LonWorks an rotocols	e packages for etail: LonWork ject outcome on of the projec SCADA system of the projec SCADA system of the projec SCADA system on systems in E ecially from d BACnet.	manage s and B, tt n: of the of SMS	ACnet. [SK5] / solve p practic [SW1] knowle	Method of vo Assessment problems that Assessment edge	erification of ability to t arise in of factual	
Learning outcomes Subject contents	Understanding basic protocols, as well as The following solution Course out K7_K02 [K7_W03] Knows an understands, to an ir extent, the construct operating principles components and sys to the field of study, theories, methods ar relationships betwee selected specific issu appropriate for the c [K7_W05] Knows an understands, to an ir extent, methods of p function support, spe field of study. 1. Basic issues of con 2. Communication mu	methods and p ns will be discu come d come d ncreased ion and of items related ion and of items related including nd complex n them and ues - urriculum. d ncreased rocess and ecific to the mmunication pre edia ication protoco ication of the S	Seed in more d Subj Implementatio based on the Trace Mode s Getting to kno construction a communicatio systems. Esp LonWorks an Getting to kno construction a communicatio systems. Esp LonWorks an rotocols	e packages for etail: LonWork ject outcome on of the projec SCADA system of the projec SCADA system of the projec SCADA system on systems in E ecially from d BACnet.	manage s and B, tt n: of the of SMS	ACnet. [SK5] / solve p practic [SW1] knowle	Method of vo Assessment problems tha e Assessment edge	erification of ability to t arise in of factual	

Recommended reading	Basic literature	Praca Zbiorowa "Building Automation: System Integration with Oper Protocols" wydawnictwo APT, Orland Park USA, 2009		
	Supplementary literature	no requirements		
	eResources addresses	Adresy na platformie eNauczanie:		
Example issues/ example questions/ tasks being completed				
Work placement	Not applicable			