

Subject card

Date of commencement of studies		Distributed Massurament Systems, DC, 00040247								
Date of commencement of studies		Distrubuted Measurement Systems, PG_00049347								
Studies Fealisation of subject Subject group Subject g	•	Ţ Ţ								
Mode of study		October 2023					2026/2027			
Mode of study Full-time studies Mode of delivery research in the field of study	Education level	first-cycle studies		Subject gro	Subject group					
Year of study Year of study Year of study The earning profile Department of Biomedical Engineering -> Faculty of Electronics, Telecommunications and Informatics Name and sumarne Of lecturer (lecturers) Department of Biomedical Engineering -> Faculty of Electronics, Telecommunications and Informatics Name and sumarne Of lecturer (lecturers) Department of Biomedical Engineering -> Faculty of Electronics, Telecommunications and Informatics Subject supervisor prof. dr hab. Inz. Piotr Jassinski Lesson types and methods of instruction Lesson types Lesson types and methods of instruction Elearning activity and number of study hours Learning activity and number of study hours Learning activity and number of study hours Learning activity The aim of the course is to acquaint students with typical solutions used in distributed measurement systems. Learning outcomes The aim of the course is to acquaint students with typical solutions used in distributed measurement systems. Learning outcomes The aim of the course is to acquaint students with typical solutions used in distributed measurement systems. Subject objectives The aim of the course is to acquaint students with typical solutions used in distributed measurement systems. Subject outcome Method of verification [KG_KO2] is ready to critically assess possessed knowledge and undestands, to an advanced whent, the principles, methods and techniques of programming and the principles of computer software development or programming witewise or controllers using microprocessors systems. Supplying knowledge of physics, in changing and not fully predictable or controllers using microprocessors and the principles of computer software development or programming and the principles of computer of study, and organisation of study, and organi										
Semester of study 7	Mode of study	Full-time studies		Mode of delivery			at the university			
Learning profile general academic profile Assessment form assessment	Year of study	4		Language of instruction			Polish			
Department of Biomedical Engineering -> Faculty of Electronics, Telecommunications and Informatics	Semester of study	7		ECTS credits			2.0			
Name and surmame of lecturer (lecturers) Subject supervisor Prof. dr hab. inz. Piotr Jasiński	Learning profile	general academic profile		Assessment form			assessment			
Teachers prof. dr hab. inż. Piotr Jasiński Lesson types and methods of instruction Learning activity and number of study hours Learning outcomes Course outcome The aim of the course is to acquaint students with typical solutions used in distributed measurement systems. Learning outcomes Course outcome [K6, K02] is ready to critically assess possessed knowledge and acknowledge the importance of landscription of the course is to acquaint students with typical solutions used in distributed measurement systems. Subject outcome [K6, K02] is ready to critically assess possessed knowledge and acknowledge the importance of landscription of the course of the	Conducting unit	Department of Biome	ng -> Faculty of Electronics, Telecommunications and Informatics							
Lesson types and methods of instruction Number of study hours 15.0 0.0 15.0 0.0 0.0 0.0 30		Subject supervisor		prof. dr hab. inż. Piotr Jasiński						
Number of study 15.0 0.0 15.0 0.0 0.0 30	of lecturer (lecturers)	Teachers prof. dr hab. inż. Piotr Jasiński								
Learning activity and number of study hours Learning activity Learning activity Learning activity Learning activity Participation in didactic classes included in study plan Learning activity SUM Number of study hours Number of study 30 2.0 18.0 50		Lesson type	Lecture	Tutorial	Laboratory	ory Project		Seminar	SUM	
Learning activity and number of study hours Learning activity Participation in didactic classes included in study plan 2.0 18.0 50 50	of instruction		15.0	0.0	15.0	0.0		0.0	30	
Classes included in study Consultation hours Classes included in study Consultation hours Number of study 30 2.0 18.0 50										
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Course outcome Subject outcome Method of verification K6_K02] is ready to critically assess possessed knowledge and acknowledge the importance of knowledge in solving cognitive and practical problems K6_W04] Knows and understands, to an advanced extent, the principles, methods and techniques of programming and the principles of computer software development or programming lediness or systems specific to the field of study, and organisation of systems using computers or sustems or programmable elements or systems specific to the field of study, and organisation of systems using computer sor such devices or complex and nontypical problems, applying knowledge of physics, in changing and not fully predictable conditions Subject contents Configuration of measuring systems. The structure of the measuring systems. The sensors in measuring systems. Smrt House - EIB. Industrial distributed systems CAN, Profibus. Lonworks. Wireless systems. Subject passing criteria Passing threshold Percentage of the final grade Laboratory So.0% 30.0%			30		2.0		18.0		50	
[K6_K02] is ready to critically assess possessed knowledge and acknowledge the importance of knowledge in solving cognitive and practical problems [K6_W04] Knows and understands, to an advanced extent, the principles, methods and techniques of programming and the principles of computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study, and organisation of systems using computers or such devices [K6_U02] can perform tasks related to the field of study in an innovative way as well as solve complex and nontypical problems, applying knowledge of physics, in changing and not fully predictable conditions Configuration of measuring systems. Hardware measurement system. Measurement interfaces. Data transmission in the telephone network. Smart House - EIB. Industrial distributed systems CAN, Profibus. Lonworks. Wireless systems. Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade Assessment methods Subject passing criteria Passing threshold Percentage of the final grade Assessment methods Subject passing criteria Passing threshold Percentage of the final grade Assessment methods Assessment methods Subject passing criteria Passing threshold Percentage of the final grade Assessment methods Subject passing criteria Passing threshold Percentage of the final grade Assessment methods Subject passing criteria Passing threshold Percentage of the final grade Assessment methods Subject passing criteria Passing threshold Percentage of the final grade Assessment methods Subject passing criteria Passing threshold Percentage of the final grade Assessment methods Subject passing criteria Passing threshold Percentage of the final grade Assessment methods Subject passing criteria Passing threshold Percentage of the final grade Assessment methods Subject passing criteria Passing threshold Percen	Subject objectives	The aim of the course is to acquaint students with typical solutions used in distributed measurement systems.								
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Subject contents Configuration of measuring systems. Hardware measurement system. Smart House - EIB. Industrial distributed systems CAN, Profibus. Lonworks. Wireless systems. Subject contents Configuration of measuring systems and co-requisites and co-requisites and techniques of programming and the principles of computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study, and organisation of systems using computers or such devices [K6_U02] can perform tasks related to the field of study in an innovative way as well as solve complex and nontypical problems, applying knowledge of physics, in changing and not fully predictable conditions Configuration of measuring systems. The structure of the measuring system. The sensors in measuring systems. Hardware measurement system. Measurement interfaces. Data transmission in the telephone network. Smart House - EIB. Industrial distributed systems CAN, Profibus. Lonworks. Wireless systems. Prerequisites Subject passing criteria Passing threshold Percentage of the final grade Laboratory 50.0% 30.0%		assess possessed knowledge and acknowledge the importance of knowledge in solving cognitive		information on the distributed			solve problems that arise in			
construction / application of distributed interface. construction / application of distributed interface.		understands, to an advanced extent, the principles, methods and techniques of programming and the principles of computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study, and organisation of systems using computers or such devices [K6_U02] can perform tasks		of the construction and application distributed interfaces . The student will be able to choose			knowledge [SU2] Assessment of ability to			
systems. Hardware measurement system. Measurement interfaces. Data transmission in the telephone network. Smart House - EIB. Industrial distributed systems CAN, Profibus. Lonworks. Wireless systems. Prerequisites and co-requisites Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade 100.0%		innovative way as well as solve complex and nontypical problems, applying knowledge of physics, in changing and not fully predictable conditions		construction / application of distributed interface.			, and the second			
Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade Laboratory 50.0% 30.0%	Subject contents	systems. Hardware measurement system. Measurement interfaces. Data transmission in the telephone								
and criteria Laboratory 50.0% 30.0%										
Education St. 1970		Subject passing criteria		Passing threshold		Percentage of the final grade				
Lecture 50.0% 70.0%		l								
		Lecture		50.0%			70.0%			

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Recommended reading	Basic literature W. Nawrocki, Rozproszone systemy pomiarowe, WKŁ 2006			
		Jerzy Mikulik, Europejska Magistrala Instalacyjna, merten 2008		
		D. Reynders, S. Mackay, E. WrightPractical Industrial Data Communications, Elsevier 2004		
	Supplementary literature	HART - Application guide HCF LIT 34		
	eResources addresses	Adresy na platformie eNauczanie:		
Example issues/ example questions/ tasks being completed				
Work placement	Not applicable			

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