

Subject card

Subject name and code	Metrology II, PG_00039482								
Field of study	Mechatronics, Mechatronics								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/	2021/2022		
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
						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	2		Language of instruction			Polish	Polish		
Semester of study	4		ECTS credits			3.0	3.0		
Learning profile	general academic profile		Assessment form			exam	exam		
Conducting unit	Department of Manufacturing and Production Engineering -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname	Subject supervisor	dr inż. Sławomir Szymański							
of lecturer (lecturers)	Teachers		dr inż. Sławomir Szymański						
			dr inż. Michał Dobrzyński						
			dr inż. Wojciech Blacharski						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	et	Seminar	SUM	
	Number of study hours	15.0	0.0	30.0	0.0		0.0	45	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	45		5.0		25.0		75	
Subject objectives	Understanding the construction and operation of measuring instruments and learning of measurement methods quantities.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	K6_W07					[SW1] Assessment of factual knowledge			
	K6_U06					[SU3] Assessment of ability to use knowledge gained from the subject			
Subject contents	The content will include: the importance of dynamic measurements in a machining process, the basic mechanical quantities in the dynamic measurements, the measurement methods for the combined quantities and indirect quantities in the measurement systems, analogue to digital signal processing- conditions and errors in a/d processing, the characteristics and parameters in the dynamic measurements, an autocorrelation and spectral analysis of the dynamic measurement quantities, the dynamic measurement systems- the measurement data recording, analysis and conclusive results. Coorginate measuring technique.								
Prerequisites and co-requisites	No requirements								
Assessment methods	Subject passir	Passing threshold			Per	Percentage of the final grade			
and criteria	Written exam		60.0%			100.09	100.0%		

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Recommended reading	Basic literature	1. A. Boryczko: Podstawy pomiarów wielkości mechanicznych. Wydawnictwo PG, Gdańsk 2010W. 2. Nawrocki W.: Sensory i syster pomiarowe. Poznań, Wydawnictwo Politechniki Poznańskiej 2006. 3 Ratajczak E.: Współrzędnościowa technika pomiarowa. Oficyna Wydawnicza Politechniki Warszawskiej. W-wa 2005. 4. Jakubiec W., Malinowski J.: Metrologia wielkości geometrycznych.PWN. W-wa 2004. 5. Lesiak P., Świsulsk D.i: Komputerowa technika pomiarowa Warszawa, Agenda Wydawnicza PAK 2002.				
	Supplementary literature	1.Tumański S.: Technika pomiarowa. Warszawa, PWN 2007. 2. MarksWojciechowska Z. i inni: Systemy pomiarowe, Łódź, Wydawnictwo PŁ 1999. 3. Świsulski D.: Systemy pomiarowe. Wydawnictwo PG 2004.				
	eResources addresses					
Example issues/ example questions/ tasks being completed	Types of measurement methods and their applications.					
Work placement	Not applicable					

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