

Subject card

Subject name and code	Coordinate measuring techniques, PG_00040092								
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Field of study	Medical and Mechanical Engineering, Mechanical and Medical Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
Education level	first-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 university			
Year of study	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Manufacturing and Production Engineering -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname	Subject supervisor		dr inż. Michał Dobrzyński						
of lecturer (lecturers)	Teachers		dr inż. Michał						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ect Seminar		SUM	
	Number of study hours	15.0	0.0	0.0	0.0		0.0	15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM		SUM		
	Number of study hours 15			3.0		7.0		25	
Subject objectives	Understanding the construction and operation of coordinated measuring machines and learning of measurement methods quantities.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_U06					[SU4] Assessment of ability to use methods and tools			
	K6_W13		The construction and operation of			[SW1] Assessment of factual knowledge			
Subject contents	The content will include: the importance of coordinated measurements in a machining process, components of CMM, types of probe heads, the measurement methods for the combined quantities and indirect quantities in the measurement systems, computer aided programming of CMM, the measurement systems the measurement data recording, analysis and conclusive results								
Prerequisites and co-requisites	Metrology								
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	Written exam		50.0%			100.0%			
Recommended reading	Basic literature		Ratajczak E., Woźniak A.: Współrzędnościowe systemy pomiarowe. Oficyna Wydawnicza Politechniki Warszawskiej. W-wa 2014. 2. Jakubiec W., Malinowski J.: Metrologia wielkości geometrycznych.WNT. W-wa 2009 .						
	Supplementary literature		Lesiak P., Świsulsk D.i: Komputerowa technika pomiarowa. Warszawa, Agenda Wydawnicza PAK 2002.						
	eResources addresses		Adresy na platformie eNauczanie:						

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Example issues/ example questions/ tasks being completed	Describe main elements of CMM.
Work placement	Not applicable

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