

Subject card

Subject name and code	, PG_00058637								
Field of study	Mechatronics								
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025			
Education level	second-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Zakład Pojazdów Med Faculty of Mechanica	echniki Militarnej -> Institute of Mechanic				nics and Machine Design ->			
Name and surname	Subject supervisor		prof. dr hab. inż. Jerzy Ejsmont						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory Project		t	Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	0.0 30.0			0.0	30	
	-	E-learning hours included: 0.0					-		
Learning activity and number of study hours	Learning activity	Participation in classes include plan			Participation in consultation hours		udy	SUM	
	Number of study hours	30		0.0		0.0		30	
Subject objectives	Acquisition of skills in the field of designing, building and improving the operation of a remotely controlled vehicle.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_U10] is able - according to a given specification and taking into consideration non-technical aspects - to design or modify non-stationary mechatronic system or process, calculate costs of design and development and perform the project - at least partially - utilising techniques of mechatronics design		The student designs, builds, programs and improves the remotely controlled vehicle.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[K7_K01] understands the need for learning during the whole life; can inspire and organise process of mechatronic education and self-education		The student uses his knowledge and trains in the remaining scope.			[SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work			
	[K7_K03] is able to cooperate and work in group, taking various roles and choosing priorities that lead to perform tasks		The student is a member of the group in which he designs and builds the vehicle.			[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice			
	[K7_W09] knows general rules of individual and team work organisation as well as enterprise management that utilise knowledge in the area of technical sciences and science disciplines appropriate for mechatronics		The student analyzes the purchasing needs to perform the task and carries out and settles purchases.			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
Subject contents	Design, build and program a remote-controlled vehicle to perform specific tasks during an organized competition. As part of the project, the necessary vehicle traction calculations should be carried out, a model (with visualization) created and a functional vehicle developed and programmed. The vehicles will be designed and manufactured in groups of 3-4 students. Each group will receive a subsidy for the construction of the vehicle. A separate group (2-3 Students) will be responsible for the modernization, design of the development and will extend it with new competitions on the parkour where the vehicle competition will be held.								
Prerequisites and co-requisites									

Data wydruku: 19.05.2024 09:47 Strona 1 z 2

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Vehicle design documentation and a roadworthy vehicle	100.0%	100.0%		
Recommended reading	Basic literature No requirements				
9	Supplementary literature	-			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

Data wydruku: 19.05.2024 09:47 Strona 2 z 2