



## Subject card

Subject name and code	Group project, PG_00055486						
Field of study	Mechatronics						
Date of commencement of studies	October 2022	Academic year of realisation of subject			2024/2025		
Education level	first-cycle studies	Subject group			Optional subject group		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	3	Language of instruction			Polish		
Semester of study	6	ECTS credits			4.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Energy and Industrial Apparatus -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Marek Galewski					
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	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 didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		20.0		50.0	100
Subject objectives	Presentation of the design process and solve engineering problems						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U04] is able to utilise known methods and mathematical models as well as analog and digital measurement methods for analysing and assesement of stationary continous and discrete mechatronics systems and processes		Student applies methods and techinques to solve engineering probles adequate to a given tasks		[SU4] Assessment of ability to use methods and tools		
	[K6_U03] has self-learning skills		Student deepens his knowledge in the field corresponding to a given engineering problem		[SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_U01] is able to acquire infomation form literature, databases and other, properly choosen sources, integrate these infomration, interpret them, draw conclusions and formulate opinions		Student selects knowledge sources and synthetises geined information		[SU2] Assessment of ability to analyse information		
	[K6_U02] is able to elaborate on specific mechatronic topics as well as topics from engineering and technical sciences and disciplines such as Mechanical Engineering, Automation, Electronics and Electrical Engineering		Student solves practical engineering tasks		[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment		
Subject contents	<p>Defining the problem. Solving engineering tasks using current knowledge and expertise. The use of modern tools supporting engineering activities and cooperation</p> <p>It is planed, to perform projects in cooperation with students from other degree courses, for example Mechanical-Medical Engineering. Students will cooperate in teams to expand existing or develop new solutions (based on a given specifications and constraints) in scope of, for example, mechanical construction, automatic control of device functions, communication, sensors, actuators, safety elements etc.</p>						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	design task		60.0%		100.0%		
Recommended reading	Basic literature		No requirements				

	Supplementary literature	Teamwork and Project Management. K. Smith. McGraw-Hill Education 2013
	eResources addresses	
Example issues/ example questions/ tasks being completed	Design task will be defined by the tutor at the beginning of the semester  For example: Project of the device for close transport of patients with limited mobility Project of the device for monitoring selected parameters of the sportsman during performing his exercises	
Work placement	Not applicable	