



Subject card

Subject name and code	Team Project, PG_00055483						
Field of study	Mechatronics						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2023/2024		
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 inż. Leszek Dąbrowski					
	Teachers	dr inż. Leszek Dąbrowski					
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_U01] is able to acquire information from literature, databases and other, properly chosen sources, integrate these information, interpret them, draw conclusions and formulate opinions	Student selects knowledge sources and synthesises gained information			[SU2] Assessment of ability to analyse information		
	[K6_U04] is able to utilise known methods and mathematical models as well as analog and digital measurement methods for analysing and assessment of stationary continuous and discrete mechatronics systems and processes	Student applies methods and techniques to solve engineering problems adequate to a given task			[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_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			[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task			
Subject contents	Defining the problem. Solving engineering tasks using current knowledge and expertise. The use of modern tools supporting engineering activities and cooperation						
	It is planned, 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.						
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	Adresy na platformie eNauzanie:	
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		