



Subject card

Subject name and code	Team Project, PG_00055486						
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 hab. inż. Piotr Mioduszewski				
	Teachers		dr hab. inż. Piotr Mioduszewski				
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_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		
	[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_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_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 tasks		[SU4] Assessment of ability to use methods and tools		
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 eNauczenie:
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	