



Subject card

Subject name and code	Team Project, PG_00032916							
Field of study	Mechanical Engineering, Mechanical Engineering							
Date of commencement of studies	October 2020	Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies	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 Manufacturing and Production Engineering -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Sławomir Szymański						
	Teachers	dr inż. Sławomir Szymański dr inż. Jacek Haras						
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 Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=7214							
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		0.0		0.0		30
Subject objectives	The use of previously acquired knowledge to perform a structural or technological task. The task should be performed in the team, planning work on various aspects and tasks along with the skills of mutual task and information transfer between team members.							

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_U03] is able to identify, formulate and develop the documentation of a simple design or technological task, including the description of the results of this task in Polish or in a foreign language and to present the results using computer software or other aiding tools	The student is able to formulate a technical and technological problem, prepare documentation and present the results of his work, among others, in a foreign language. The student uses advanced supporting tools to solve a technical and technological problem.	[SU1] Assessment of task fulfilment
	[K6_U02] is able to work in a team and individually, also in multi-disciplinary teams, is able to draw a plan of completing a construction or technological design, shows self-learning abilities	The student carries out a technological design task, working in a team. The student exchanges information with other team members, adapting the scope of his work to the changing input data.	[SU5] Assessment of ability to present the results of task
	[K6_U01] is able to acquire information from specialized literary sources, databases and other resources, essential for solving engineering tasks; is able to compile the obtained information pieces and to interpret them, additionally is able to form conclusions and present justified opinion	The student searches for technical information in the professional literature. The student critically verifies the information obtained and presents constructive conclusions.	[SU2] Assessment of ability to analyse information
[K6_K01] is aware of the need for complementing the knowledge throughout the whole life, is able to select proper methods of teaching and learning, critically assesses the possessed knowledge; is aware of the importance of professional conduct and following the rules of professional ethics; is able to show resourcefulness and innovation in the realisation of professional projects	Student is aware of learning, can critically assess their own knowledge and learn from literature and other sources.	[SK4] Assessment of communication skills, including language correctness	
Subject contents	Performing in the team the task accepted by the teacher. Materials analysis, concepts of implementation, proposals for changes based on a review of available literature. Selection of operating parameters for accepted solutions. Analysis of the cost of the item. Simulation of the device operation (part manufacturing process). Conclusion for further work of the project.		
Prerequisites and co-requisites	Completed first level engineering course, mastering CAE, CAD/CAM techniques.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Team project	60.0%	100.0%
Recommended reading	Basic literature	References will be presented by subject leader	
	Supplementary literature	1. Meyer Kutz: <i>Mechanical Engineers' handbook, Manufacturing and Management</i> , John Willey and Sons, 2006. 3. Journal literature available at PG library.	
	eResources addresses	Adresy na platformie eNauczanie: Projekt zespołowy MIBM sem letni 2022/2023 - Moodle ID: 29728 https://enauzanie.pg.edu.pl/moodle/course/view.php?id=29728	
Example issues/ example questions/ tasks being completed	Design of device structure or technological equipment. The project of manufacturing process. Analysis of the project cost.Simulation with the use of CAE, CAD / CAM tools.		

Work placement	Not applicable
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