



## Subject card

Subject name and code	Teamwork methodology, PG_00055472						
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		Obligatory subject group in the field of study		
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		1.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Zakład Materiałoznawstwa i Technologii Materiałowych -> Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Krzysztof Krzysztofowicz				
	Teachers		dr inż. Krzysztof Krzysztofowicz				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	7.0	0.0	0.0	0.0	0.0	7
	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	7		6.0		12.0	25
Subject objectives	The aim of the course is to learn the principles of teamwork and acquire basic skills in the field organization and preparation of team work and the use of basic teamwork techniques.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K01] is aware of non-technical aspects, individual and collaborative work responsibility and is capable to comply to rules of team cooperation and to take responsibility for collectively performed tasks		is aware of responsibility for own and group work, and is ready to comply with the rules of teamwork		[SK1] Assessment of group work skills		
	[K6_W12] has basic knowledge on management and knowledge essential for understanding non-technical conditions of engineering activities; knows basic rules of industrial safety and intellectual property rights; is able to make use of patent databases		has the necessary knowledge and general knowledge rules		[SW1] Assessment of factual knowledge		
	[K6_W13] knows general rules of establishing and development of a private, small business that applies knowledge from engineering and technical sciences and scientific disciplines, adequate for mechatronics		knows the general principles of creating and developing forms of individual entrepreneurship		[SW1] Assessment of factual knowledge		
	[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		can develop detailed topics		[SU5] Assessment of ability to present the results of task		

Subject contents	Definition and goals of team building. Rules for creating teams. Typical team elements. Advantages and disadvantages teamwork. Teamwork techniques. Division of work among team members. Choosing a leader. Determining the method of discussion and selection best concepts. Adopting a team project plan. Development of a schedule. Term necessary resources and how to obtain them. Project implementation method. Developing a method of project documentation. Intellectual property protection. Ways to assess the contribution and quality of work performed by team members. Ways to present solutions. Assessment methods.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Colloquim	50.0%	100.0%
Recommended reading	Basic literature	1. Kalin K., Muri P., Kierować sobą i innymi, Wydawnictwo Profesjonalnej Szkoły Biznesu, 1996. 2. Steward M. (red.), Praktyka kierowania, PWE, Warszawa 2002. 3. Ward M., 50 najważniejszych problemów zarządzania, Wydawnictwo Profesjonalnej Szkoły Biznesu, 1995. 4. Aronson E., Wilson T.D., Akert R.M.: Psychologia społeczna. Serce i umysł. Zysk i S-ka, Warszawa 1997. 5. Deal T.E., Kennedy A.A., Corporate Cultures: The Rites and Rituals of Corporate Life. Addison-Wesley Publ. Co. 1982. 6. Katzenbach J.R., Smith D.K.: Siła zespołów. Wpływ pracy zespołowej na efektywność organizacji. Oficyna Ekonomiczna, Kraków 2001.	
	Supplementary literature	<a href="http://nf.pl/manager/motywacyjne-aspekty-pracy-w-zespole,,15555,54">http://nf.pl/manager/motywacyjne-aspekty-pracy-w-zespole,,15555,54</a> <a href="http://gawedama.republika.pl/mg/pr_ze.html">http://gawedama.republika.pl/mg/pr_ze.html</a>	
	eResources addresses	Adresy na platformie eNauczanie: Metodologia pracy zespołowej, W, Mechatronika, sem. 6, letni, 2023/24 - Moodle ID: 36861 <a href="https://enauzanie.pg.edu.pl/moodle/course/view.php?id=36861">https://enauzanie.pg.edu.pl/moodle/course/view.php?id=36861</a>	
Example issues/ example questions/ tasks being completed	1. Team goals  2. Method of organizing the team.  3. Advantages and disadvantages of teamwork.  4. Teamwork methods		
Work placement	Not applicable		