



Subject card

Subject name and code	Group project, PG_00059494						
Field of study	Management and Production Engineering						
Date of commencement of studies	February 2023	Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies	Subject group			Optional subject group		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			4.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Jacek Haras				
	Teachers		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						
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		21.0		49.0	100
Subject objectives	Team work in the implementation of a comprehensive technological design.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_K03] can think and act in a creative and entrepreneurial manner		The student is aware of his role in a project group carrying out an important technical task.		[SK3] Assessment of ability to organize work [SK1] Assessment of group work skills		
	[K7_U03] can use information and communication techniques appropriate for acquiring and processing information and performing tasks typical for engineering activities		The student uses the skills of technical recording of structures and technologies related to their creation.		[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information		
	[K7_W02] has extended knowledge covering key issues characterizing production processes		In accordance with the assumed role - the student expands his or her knowledge in a given field.		[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge		
	[K7_U08] is able to work in a group, assuming various roles in it, including managing a small team, assuming responsibility for the results his work		The student finds his place in the technical team and is able to take on the role of a designer, technologist or, for example, quality controller.		[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment		
	[K7_K01] is aware of the need to expand knowledge and verify the methods of solving problems by consulting experts		The student feels "creative anxiety" - presents various ways to solve technical problems - and chooses the optimal solution.		[SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK2] Assessment of progress of work		

Subject contents	<p>1. Presentation of the designing specifics in a team.</p> <p>2. Analysis of an exemplary design issue.</p> <p>3. Students receive a list of 6 design topics (to choose from). The implementation of your own project (proposed by Students) is also planned.</p> <p>4. Selection of teams and internal determination of teamwork rules in teams.</p> <p>5. Choosing a team leader and tasks for: the constructor, technologist and control specialist.</p> <p>6. Preparation of the concept, selection of the optimized concept.</p> <p>7. Division of tasks, partial analysis of solutions in the project, project implementation schedule, division of individual tasks.</p> <p>8. Integrated linking of elements of individual activities.</p> <p>9. Development of the project.</p> <p>10. Conference presentation of the project (eg. for a webinar).</p>											
Prerequisites and co-requisites	Basic skills in the field of: engineering graphics, material science, basics of technology: cutting and chipless (foundry and plastic processing), basics of welding/ bonding technologies and metrology.											
Assessment methods and criteria	<table border="1" data-bbox="448 987 1493 1093"> <thead> <tr> <th data-bbox="448 987 794 1025">Subject passing criteria</th> <th data-bbox="794 987 1141 1025">Passing threshold</th> <th data-bbox="1141 987 1493 1025">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="448 1025 794 1064">Project evaluation</td> <td data-bbox="794 1025 1141 1064">50.0%</td> <td data-bbox="1141 1025 1493 1064">70.0%</td> </tr> <tr> <td data-bbox="448 1064 794 1093">Teamwork assessment</td> <td data-bbox="794 1064 1141 1093">50.0%</td> <td data-bbox="1141 1064 1493 1093">30.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Project evaluation	50.0%	70.0%	Teamwork assessment	50.0%	30.0%
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Project evaluation	50.0%	70.0%										
Teamwork assessment	50.0%	30.0%										
Recommended reading	<p>Basic literature</p> <p>Supplementary literature</p> <p>eResources addresses</p>	<p>1. Handbook: by R. HALMSHAW: Introduction to the Non-Destructive Testing of Welded Joints</p> <p>2. Guidebooks (e.g. "Biuro Gamma" in the field of NDT);</p> <p>3. PN-EN ISO standards & regulation rules - depending on the content of the project.</p> <p>ASTM standards, regulations rules of UDT and Classification Societies.</p> <p>Adresy na platformie eNauczenie:</p>										
Example issues/ example questions/ tasks being completed	NOT APPLICABLE: in case of doubts of the Students: "Task-Performers": e-mail correspondence with the project leader.											
Work placement	Not applicable											