



Subject card

Subject name and code	Social Aspects of Engineering, PG_00066998						
Field of study	Smart Renewable Energy Engineering						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2026/2027		
Education level	second-cycle studies	Subject group			Optional subject group Humanistic-social subject group		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			English		
Semester of study	2	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Entrepreneurship -> Faculty of Management and Economics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr Beata Krawczyk-Bryłka					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	0.0	0.0	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	4.0		41.0	75	
Subject objectives	Preparing participants to build effective engineering teams and develop competences necessary to teamwork.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_U05] can produce concise, clear technical reports, documenting analytical findings and presenting them in report format	Is able to prepare a report on a completed case study.			[SU5] Assessment of ability to present the results of task		
	[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	Has knowledge in the field of social and management psychology related to working in engineering teams.			[SW3] Assessment of knowledge contained in written work and projects		
	[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	Applies theoretical and practical knowledge to build and manage effective engineering teams			[SU1] Assessment of task fulfilment		
	[K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment	Explains the importance of interpersonal skills, trust, and effective communication in the success of engineering teams and their role in broader organizational contexts.			[SK5] Assessment of ability to solve problems that arise in practice		

Subject contents	<p>Course content – exercises</p> <p><i>-Engineering Team Models</i></p> <p><i>-Structure of Engineering Team, Team Roles</i></p> <p><i>-Rules of Effective Collaboration</i></p> <p><i>-Effective Communication in Engineering Team</i></p> <p><i>-Team conflicts management</i></p> <p><i>-Remote teams</i></p> <p><i>-Trust in Team Collaboration</i></p> <p><i>-Team creativity</i></p> <p><i>-Rules of team presentations</i></p>														
Prerequisites and co-requisites															
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="453 893 794 922">Subject passing criteria</th> <th data-bbox="799 893 1141 922">Passing threshold</th> <th data-bbox="1145 893 1490 922">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="453 929 794 958">active participation</td> <td data-bbox="799 929 1141 958">80.0%</td> <td data-bbox="1145 929 1490 958">30.0%</td> </tr> <tr> <td data-bbox="453 965 794 994">final assessment (case-study)</td> <td data-bbox="799 965 1141 994">80.0%</td> <td data-bbox="1145 965 1490 994">50.0%</td> </tr> <tr> <td data-bbox="453 1001 794 1030">homework</td> <td data-bbox="799 1001 1141 1030">80.0%</td> <td data-bbox="1145 1001 1490 1030">20.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	active participation	80.0%	30.0%	final assessment (case-study)	80.0%	50.0%	homework	80.0%	20.0%
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Recommended reading	Basic literature	<p><i>Addy Osmani · 2024, Leading Effective Engineering Teams, O'Reilly Media</i></p> <p><i>Cate Huston · 2024, The Engineering Leader, O'Reilly Media</i></p> <p><i>Patric Lencioni, 2012, The Five Dysfunctions of a Team, Intact Teams Participant Workbook, Wiley</i></p>													
	Supplementary literature	<p><i>W. Gibb Dyer, Jr., Jeffrey H. Dyer, William G. Dyer · 2013, Team Building. Proven Strategies for Improving Team Performance, Wiley.</i></p>													
	eResources addresses														
Example issues/ example questions/ tasks being completed	<p><i>What strategies can be used to resolve conflicts within a team while maintaining productivity?</i></p> <p><i>How do cultural differences impact teamwork in global engineering teams?</i></p>														
Practical activities within the subject	Not applicable														

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