



Subject card

Subject name and code	Social Sciences for Engineers, PG_00047523						
Field of study	Biomedical Engineering, Biomedical Engineering, Biomedical Engineering						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2026/2027		
Education level	first-cycle studies	Subject group			Obligatory subject group in the field of study Humanistic-social 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	1	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Intelligent Interactive Systems -> Faculty of Electronics Telecommunications and Informatics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Adam Kaczmarek					
	Teachers	dr inż. Adam Kaczmarek prof. dr hab. Mariusz Mróz dr Justyna Pawłowska-Bajerska dr hab. Andrzej Lisak prof. dr hab. inż. Krzysztof Goczyla					
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	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		3.0		42.0	75
Subject objectives	The aim of the subject is to familiarize students with the issues related to engineering creativity, culture, the history of civilization, intellectual property protection and linguistic correctness						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K03] is ready to meet social obligations, co-organise activities for the social environment, initiate actions for the public interest, think and act in an entrepreneurial way		The student has the knowledge about performing her or his work efficiently and the student is able to implement this knowledge in her or his job. Moreover, the student knows rules cooperation in the society.		[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice		

Subject contents	<p>Course content – lecture</p> <p>The concepts and criteria for engineering works. Creativity as a characteristic feature of the product and as a personality. Criteria of creativity open and hidden. The structure and components of the creative process. External creator environment. Rules for outstanding innovation. Innovation driving forces. A strategy for effective action. Creating a creative atmosphere. Internal environment of a creator. Mental internal environment of a creator. Human Personality and its dynamism. Engineer's mission in the field of creation and implementation of the principles of creative leadership in the modern company. Propedeutics of art history, propaedeutics of cultural history, history as heritage of generations / Gdańsk, region, Poland, Europe / . Institutions of culture / Gdańsk, region, Poland. Fine arts, artistic creation. Contemporary mass media. Mass culture. Ethnography, musical ethnography. Contemporary society, homelessness, disability. Identification of the aims of elements and their relations in the systems of the work. Methodies of the investigation and improving the work with the use of inductive and deductive techniques. Ancient sources of European civilization, the rise in Europe, the essence of European subjectivity; Western rationality, enlightenment program of modernity; Two models of Western civilization: Europe and America; Europe and other civilizations; it is possible to create a global civilization?; human being as a consumer; floating postmodernity. Intellectual property: the basic principles of protection, the types and references of exclusive rights, the range and limitations of protection. Paris Convention for the Protection of Industrial Property: the principle of independence of patents, the principle of equal treatment, the Convention priority, the priority of the exhibition, the privilege of communication, protection against unfair competition. The Patent Office and industrial property law in Poland: the law acts, objects and types of protection provided by the office. Industrial designs, trademarks. Geographical indications and topographies of integrated circuits. Rules for Polish spelling and orthography; common errors Rules for correct speech and writing in Polish; typical errors Rules for good language style in speech and writing; levels of the language; frequently made errors and mistakes</p>																				
Prerequisites and co-requisites	No requirements																				
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 730 794 757">Subject passing criteria</th> <th data-bbox="799 730 1137 757">Passing threshold</th> <th data-bbox="1142 730 1481 757">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 763 794 790">Culture</td> <td data-bbox="799 763 1137 790">50.0%</td> <td data-bbox="1142 763 1481 790">25.0%</td> </tr> <tr> <td data-bbox="456 797 794 824">Protection of intellectual property</td> <td data-bbox="799 797 1137 824">50.0%</td> <td data-bbox="1142 797 1481 824">15.0%</td> </tr> <tr> <td data-bbox="456 831 794 857">The history of civilization</td> <td data-bbox="799 831 1137 857">50.0%</td> <td data-bbox="1142 831 1481 857">15.0%</td> </tr> <tr> <td data-bbox="456 864 794 891">Polish Language</td> <td data-bbox="799 864 1137 891">50.0%</td> <td data-bbox="1142 864 1481 891">20.0%</td> </tr> <tr> <td data-bbox="456 898 794 925">Creativity in engineering</td> <td data-bbox="799 898 1137 925">50.0%</td> <td data-bbox="1142 898 1481 925">25.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Culture	50.0%	25.0%	Protection of intellectual property	50.0%	15.0%	The history of civilization	50.0%	15.0%	Polish Language	50.0%	20.0%	Creativity in engineering	50.0%	25.0%
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Recommended reading	<p>Basic literature</p> <p>Supplementary literature</p> <p>eResources addresses</p>	<p>1. Chaffee J. „Potęga twórczego myślenia”, GWP, 1998. 2. Goczyła K. „Język polski czy obcy”. Cykl wykładów, WETI PG, 2006-2009. 3. Nęcka E. „Psychologia twórczości”, GWP. Gdańsk 2001. 4. Tatarkiewicz W., "Dzieje sześciu pojęć" PWN, 1988 5. Tatarkiewicz W. "Historia filozofii", PWN 1988 6. Sztompka P. "Socjologia", Wydawnictwo Znak 2005 7. Baly S., "Psychologia wychowawcza w zarysie", PWN 1965 8. Bogucka M., "Dzieje kultury polskiej", Ossolineum 1991 9. Anzenbacher A., "Wprowadzenie do etyki," Wydawnictwo WAM, Kraków 2008. 10. Popek S. "Mechanizmy aktywności twórczej człowieka w świetle interakcyjnej teorii psychologicznej", UMCS 2016 11. Rybotycki C. "Etnografia wobec kultury współczesnej" UJ Kraków 1992</p>																			
Example issues/ example questions/ tasks being completed																					
Practical activities within the subject	Not applicable																				

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