



## Subject card

Subject name and code	Organization of Engineer' s Work and Basics of Standarization, PG_00046967						
Field of study	Automation, Robotics and Control Systems						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2024/2025		
Education level	first-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	4	Language of instruction			Polish		
Semester of study	7	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Faculty of Electrical and Control Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Piotr Tojza				
	Teachers						
Lesson types and methods of instruction	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		1.0		19.0	50
Subject objectives	Familiarize students with the social and economic aspects of the engineering profession						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_W71] has general knowledge in humanistic, social, economic or legal sciences	The student has knowledge of selected topics of economic issues, the economic functioning system and state institutions with a significant impact on the implementation of business activities. The student has knowledge of starting and running a business. The student has knowledge of the functioning and possibilities related to the common market within the EU. The student knows the principles of creating and using technical standards as well as the structure and operation of Polish and EU standardization committees. The student knows the structure of EU legal acts.	[SW1] Assessment of factual knowledge
	[K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems in a social environment	The student knows key types of social interactions in and outside the workplace. Is aware of and knows how to behave in specific situations of social interaction in the work environment in relation to co-workers. Knows some tools to achieve social goals in the workplace. Knows and knows how to use literature and other sources used in social sciences. The student knows how to set up and run a business and the rights and obligations of both the employer and the employee. The student knows the most important differences between types of companies and is able to select the nature of the company/ business activity for the planned venture.	[SU1] Assessment of task fulfilment
	K6_U04	The student knows the specificity of his profession and is aware of the enormous technological advances taking place in it. The student was familiarized with the sources of technical, normative and industry literature and the need to constantly follow it.	[SU4] Assessment of ability to use methods and tools
	[K6_K71] is conscious of the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment	The student learned the social behaviors observed in the environment, the basic rules of interaction and being among other people. The student is aware of the specificity of social interactions related to the culture or origin of people in a given environment. The student is aware of the need to constantly learn about social changes in the global and local sense, as well as in relation to social and ethnic groups, etc	[SK5] Assessment of ability to solve problems that arise in practice
Subject contents	<p>Interpersonal communication, functions and forms of communication, verbal and non-verbal communication. Language in technique, creating and following technical terminology, oral statements - rules for preparing and delivering, editing diploma theses and technical texts. Marketing and management in engineering activities, basic principles of management and conducting business activity, registration of activities and selection of taxation rules; National and international standardization and standardization, the role and importance of technical standardization, creation, amendment and verification of norms and regulations, types and cooperation of standardization institutions, rules for placing products on the market, declaration of compliance of products with directives and standards, CE mark of conformity. Polish and international organizations of engineers, building qualifications. Scientific and technical information, information resources and organization of their sharing. Labor market, principles of active presence on the labor market, forms and costs of providing work. Rules for creating your own business. The rights and obligations of the employer and employee, institutions supervising and controlling the conduct of business. Basics of tax law.</p>		

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Presentation	60.0%	50.0%
	Exam	60.0%	50.0%
Recommended reading	Basic literature	<p>1. Griffin E.: Podstawy komunikacji społecznej, GWP, Gdańsk, 2003,</p> <p>2. Maćkiewicz J.: Jak pisać teksty naukowe, Wyd. Uniwersytetu Gdańskiego, 1996.</p> <p>3. Łukaszuk L.: Dobra intelektualne, Wydawnictwa Akademickie i Profesjonalne, Warszawa 2009, (dostępne przez bazę ITELIX lub ibuk.pl,</p> <p>4. Schweitzer T i inni: Normalizacja, PKN, Warszawa 2010,</p> <p>5. Bławat F., Przedsiębiorca w teorii przedsiębiorczości i praktyce małych firm, GTN, Gdansk 2003</p>	
	Supplementary literature	<p>1. <a href="http://www.pkn.pl">www.pkn.pl</a>, strony Polskiego Komitetu Normalizacji</p> <p>2. <a href="http://www.not.pl">www.not.pl</a>, strony Naczelnej Organizacji Technicznej</p> <p>3. <a href="http://www.uprp.pl">www.uprp.pl</a>, strony Urzędu Patentowego RP</p> <p>4. <a href="http://www.isap.sejm.gov.pl">www.isap.sejm.gov.pl</a>, internetowy system aktów prawnych - Sejm RP</p>	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	<p>Sample questions: 1. Rules for creating and amending standards, 2. What are harmonized standards, 3. What does the CE mark on the product mean?, 4. List and briefly describe the basic forms of doing business, 5. Conditions for obtaining the title European Engineer, 6. What are presuppositions and what role do they play in conversation, 7. Whether or when the application of state standards is currently mandatory, 8. The diploma recognition procedure in the European Union countries, 9. The basic model of marketing communication - description and use, 10. Forms of business taxation in Poland, 11. Organizational and legal forms of conducting business activity by a natural person, 12. When can a business run in the form of a partner company and what are the advantages of this form?, 13. Natural person and legal person - the pros and cons of both forms of doing business, 14. The basic requirements of the EMC directive for electrical devices, 15. What characterizes a limited partnership,</p>		
Work placement	Not applicable		