



Subject card

Subject name and code	Organization of Engineer' s Work and Basics of Standarization, PG_00046967						
Field of study	Electrical Engineering						
Date of commencement of studies	October 2021		Academic year of realisation of subject		2023/2024		
Education level	first-cycle studies		Subject group				
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		2.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Katedra Biomechatroniki -> Faculty of Electrical and Control Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Piotr Tojza				
	Teachers		dr inż. Piotr Tojza				
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_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 basic social behavior observed in the environment, the basic principles 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 a global and local sense as well as in terms of reference to social and ethnic groups, etc.	[SK5] Assessment of ability to solve problems that arise in practice
	[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 was acquainted with the basic types of social interactions in the workplace and outside it. Is aware and knows how to behave in certain situations of social interaction in the work environment in relation to colleagues. He 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 the basics of establishing and running a business as well as the rights and obligations of both the employer and employee. The student knows the basic differences between the types of companies and knows how to choose the nature of the company / business activity for the planned venture.	[SU1] Assessment of task fulfilment
	[K6_W71] has general knowledge in humanistic, social, economic or legal sciences	The student gained knowledge of the basics of economic issues, the system of functioning of the economy and state institutions with a significant impact on the implementation of economic activity. The student has knowledge of establishing 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 the legal acts of the Union.	[SW1] Assessment of factual knowledge
Subject contents	Interpersonal communication and forms of communication, verbal and nonverbal communication. Technical language, the creation of and compliance of the technical terminology, words spoken - preparation and edition of technical texts and thesis. Marketing and management in engineering activities, the basic principles of management and business, business registration and the choice of tax rules. National and international normalization and standardization, role and significance of technical normalization, creation, revision and verification of standards and regulations, types and collaboration among standardization bodies, rules of accreditation of testing laboratories, rules for products on the market, declaration of conformity of products with directives and standards, conformity marking CE. Polish and international organizations and association of engineers, building powers. Scientific - technical information resources and the organization they become available. Labor market, the rules of active presence in the labor market, forms of employment.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Test exam	60.0%	50.0%
	Group presentation	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. www.pkn.pl, website of the Polish Committee for Standardization</p> <p>2. www.not.pl, website of the Polish Federation of Engineering Associations - NOT</p> <p>3. www.uprp.pl, website of the Patent Office of the Republic of Poland</p> <p>4. www.isap.sejm.gov.pl, Internet system of legal acts - Sejm of the Republic of Poland</p>
	eResources addresses	<p>Adresy na platformie eNauczanie: ORGANIZACJA PRACY INŻYNIERA I PODSTAWY NORMALIZACJI [ET][2023/24] - Moodle ID: 36062 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36062</p>
Example issues/ example questions/ tasks being completed	<p>Sample questions:</p> <ol style="list-style-type: none"> 1. Forms of taxation of doing business in Poland, 2. The organizational forms - legal business by a natural person, 3. When economic activity may be conducted in the form of a partnership and what are the advantages of this form, 4. A natural and legal person - the advantages and disadvantages of both forms of business, 5. The basic requirements of the EMC Directive 	
Work placement	Not applicable	