



## Subject card

Subject name and code	Philosophical aspects of an engineer's work, PG_00059436						
Field of study	Chemical Technology, Civil Engineering, Chemistry, Technical Physics, Environmental Engineering, Electrical Engineering, Power Engineering, Electronics and Telecommunications, Biotechnology, Geodesy and Cartography, Biomedical Engineering, Electronics and Telecommunications, Chemistry in Construction Engineering, Biomedical Engineering, Biomedical Engineering, Nanotechnology, Spatial Development, Engineering and Technologies of Energy Carriers, Corrosion, Nanotechnology, Automation, Robotics and Control Systems, Green Technologies, Green Technologies, Spatial Development, Power Engineering, Power Engineering						
Date of commencement of studies	February 2022	Academic year of realisation of subject			2022/2023		
Education level	second-cycle studies	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			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Engineering Structures -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Wojciech Migda				
	Teachers		dr inż. Wojciech Migda				
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						
Filozoficzne aspekty pracy inżyniera - Moodle ID: 25341 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=25341">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=25341</a>							
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	2.0	18.0	50		
Subject objectives	The aim of the course is to familiarize students with ethical and moral problems in the light of engineering (design) activity.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[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	The student is able to justify their actions and evaluate them. Is able to find sources that will allow to introduce an ethical assessment of his work.			[SK5] Assessment of ability to solve problems that arise in practice		
	[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	The student has the knowledge to analyze the actions taken. Has basic knowledge of the use of moral and ethical judgment.			[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	The student is able to assess the risk of the task being performed. Is able to evaluate engineering activities in the light of professional ethics.			[SU1] Assessment of task fulfilment		
Subject contents	Elements of an engineer's work that are not technical aspects. How to deal with investors/principals. Risks related to accepting an order. Professional and moral responsibility. Design work strategy. Time management on projects. Labor valuation methodology. Building your own reputation. Assessment of the risk of execution of a given order. Assessment of individual success or failure.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Semester work		60.0%		100.0%		
Recommended reading	Basic literature		K. Ajdukiewicz: Zagadnienia i kierunki filozofii				
			K. Ajdukiewicz: Główne kierunki filozofii				

	Supplementary literature	G. Orwell: Animal farm  T. Pratchett: Disk world series
	eResources addresses	
Example issues/ example questions/ tasks being completed	Valuation of intellectual (design) work, Price negotiations with the client, Assessment of spending on tools and materials needed to perform intellectual work, Outsourcing, Assessment of the risk associated with accepting the order, Assessment of the labor or time-consuming nature of the execution of a given order, Work and personal culture (Savoir Vivre)How should a given (specific project) creative and intellectual project/work be valued? What valuation criterion should be adopted? When is the contract concluded? What approach to contractual penalties should be followed? What funds should be allocated for e.g. office/ computer equipment and software - i.e. the back-up of your work? What is the risk of the given order? Preparation of the valuation of various projects, Simulations of running an office with a given budget (group exercises/projects), Analysis of the (financial) risk of specific projects, Analysis of conversation scenarios with the client, Analysis of selected fragments (literature items), Simulation of order fulfillment.	
Work placement	Not applicable	