



Subject card

Subject name and code	Cost accounting for engineers, PG_00056619						
Field of study	Mechatronics						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2021/2022		
Education level	first-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	1	ECTS credits			1.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Stefan Dzionk					
	Teachers	dr hab. inż. Stefan Dzionk					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=10365 Adresy na platformie eNauczanie: Rachunek kosztów dla inżynierów, W, zbiorczy, Ist., sem.1, zimowy 2021/22, (PG_00056619), (PG_00056620), (PG_00056667) - Moodle ID: 19111 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=19111						
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	15	1.0	9.0	25		
Subject objectives	Introduction to basic topics of commercial costs and economics.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_K01] is aware of non-technical aspects, individual and collaborative work responsibility and is capable to comply to rules of team cooperation and to take responsibility for collectively performed tasks	Student understands the non-technical conditions of engineering activities and has basic knowledge of cost management and business.			[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_K02] is aware of social role of the technical university alumni, the importance of professional attitudes, obeying ethic rules with respect to diverse point of views and cultures, understands the need for permanent self-learning	Student is able to determine the level of their competences. He or she is aware of the necessity of up-to-date supplementation of knowledge, can act in an entrepreneurial and innovative way.			[SK4] Assessment of communication skills, including language correctness		
Subject contents	Basic concepts in economics. Basis for the functioning of the market, supply, demand, price. Production and costs in the enterprise, the theory of short- term and long-term production costs, the balance of the company. Money, banking and financial markets, the central bank and commercial banks, financial market products. Fundamentals of accounting and factor analysis. Fundamentals of cost management in a company, accounting for indirect costs, cost allocation keys, cost standards, budgetary control of costs.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	Market analyse	60.0%			40.0%		
	Midterm colloquium	60.0%			60.0%		
Recommended reading	Basic literature	1. James D. Gwartney: Understanding Economics, Thomson Learning , May 2012.					

	Supplementary literature	1. Bob Frank: Principles of Economic, McGraw-Hill
	eResources addresses	Rachunek kosztów dla inżynierów, W, zbiorczy, Ist., sem.1, zimowy 2021/22, (PG_00056619), (PG_00056620), (PG_00056667) - Moodle ID: 19111 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=19111
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> 1. Explain the task of economics, 2. Explain what economists understand the concepts: scarcity, good availability, allocation. 3. Characterize the roundabout circulation in the economy. 4. Formulate arguments showing that the competitive price is determined at the point of equilibrium at the intersection of supply and demand. 5. Describe the role (the essence) of money in the economy. 6. Define the role of banks. What is the function of obligatory reserves? 7. Explain the concepts of fixed costs, variable costs, average cost, opportunity cost. 8. Outline the basic principles in accounting. 9. Describe basic cost management strategies. 10. Characterise the cost allocation keys, 11. Describe cost standards, 12. Budgetary control of costs. 	
Work placement	Not applicable	