



Subject card

Subject name and code	, PG_00054588						
Field of study	Engineering Management						
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025	
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study	
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			4.0	
Learning profile	general academic profile		Assessment form			exam	
Conducting unit	Department of Management Engineering and Quality -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Elwira Brodnicka				
	Teachers		dr inż. Elwira Brodnicka				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	15.0	0.0	0.0	45
	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	45		6.0		49.0	100
Subject objectives	a) presenting a conceptual base for the realization and use of the feasibility study, b) presenting selected issues and trends in the realization and use of the feasibility study, c) acquiring some practical skills in the preparation and application of a feasibility study						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[K6_W13] has a basic knowledge of the design, modelling and optimisation of technical processes and systems		The student analyzes the technical, organizational and financial profitability of investing and the possibility of launching a system producing specific products. The student describes the principles of preparation and implementation of the production system for the selected product and production process in the form of a feasibility study. The student designs and describes selected elements that make up the future investment facilities, the principles of its implementation and calculates the financial profitability of launching the designed system			[SW3] Assessment of knowledge contained in written work and projects	
	[K6_U08] analyses engineering and managerial solutions in decision-making processes, taking into account pro-quality and pro-environmental aspects, as well as safety of work processes		The student designs technical and organizational solutions and the principles of implementing the production system of any industry, using previously developed production processes. The student develops and demonstrates the adopted solutions in the form of a feasibility study for taking managerial decisions regarding the profitability of investment activities, taking into account proquality and pro-environmental aspects as well as safety of work processes			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject	

Subject contents	<p>Lecture Introduction to Feasibility Study; Needs Analysis Requirement Gathering; Technical and Technological Analysis; Financial and Economic Analysis; Risk Analysis and Risk Management Organizational and Human Resources Analysis; Internal and External Environment Analysis Project Feasibility Evaluation Criteria;</p> <p>Project: Introduction; Creative Techniques for Case Study Development; Needs Analysis Requirement Gathering; Technical and Technological Analysis; Financial and Economic Analysis; Risk Analysis and Risk Management; Organizational and Human Resources Analysis; Internal and External Environment Analysis; Feasibility Study Presentation</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	reports	60.0%	60.0%
	exam	60.0%	40.0%
Recommended reading	Basic literature	<p>1. Durlik I.: Inżynieria zarządzania. Cz. I oraz cz. II. Wyd. 7; PLACET, 2019</p> <p>2. Inżynieria produkcji. Kompendium wiedzy. Red. R. Knosala. Wyd. PWE 2017</p> <p>3. Bogucki D.: Studium wykonalności. Poradnik, Presscom Sp. z o.o., Wrocław 2016</p> <p>4. Skrzypek J.: Biznesplan w 10 krokach, Wydawnictwo Poltext, Warszawa 2014</p>	
	Supplementary literature	Behrens W., Hawranek P. M.: Poradnik przygotowania przemysłowych studiów feasibility, (tłum. z ang.). Wyd. UNIDO, Warszawa 1993;	
	eResources addresses	Adresy na platformie eNauczanie: Studium Wykonalności_ST_2025 - Moodle ID: 45130 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=45130	
Example issues/ example questions/ tasks being completed	<p>Stages of the Feasibility Study</p> <p>The Role and Importance of the Feasibility Study</p> <p>Feasibility Study vs. Business Plan</p>		
Work placement	Not applicable		

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