GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00056526		
Field of study	Engineering Management		
Date of commencement of studies	October 2022	Academic year of realisation of subject	2025/2026
Education level	first-cycle studies	Subject group	
Mode of study	Part-time studies (on-line)	Mode of delivery	blended-learning
Year of study	4	Language of instruction	Polish
Semester of study	7	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 -> Wydziały Politechniki Gdańskiej		
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	16.0	0.0	8.0	0.0	0.0	24
	E-learning hours included: 18.0						
	eNauczanie source address: https://enauczanie.pg.edu.pl						

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	24	0.0	0.0	24

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 pro-quality 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

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;

Laboratory

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

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	1. Durlik I.: Inżynieria zarządzania. Cz. I oraz cz. II. Wyd. 7; PLACET, 2019 2. Inżynieria produkcji. Kompendium wiedzy. Red. R. Knosala. Wyd. PWE 2017 3. Łada Monika; Kozarkiewicz Alina .: Zarządzanie wartością projektów . Wyd. C.H. Beck 2010, 4. Skrzypek J.: Biznesplan w 10 krokach, Wydawnictwo Poltext, Warszawa 2014
Supplementary literature	Behrens W., Hawranek P. M.: Poradnik przygotowania przemysłowych studiów feasibility, (tłum. z ang.). Wyd. UNIDO, Warszawa 199
eResources addresses	

Example issues/ example questions/ tasks being completed	E. FINANCIAL ASSESSMENT OF THE DEVELOPED DESIGN SOLUTION Note: The necessary data for calculations should be compiled in specially prepared tables 18. Specify the necessary investment expenditure, taking into account: • outlays on fixed assets, • pre-production capital expenditure, • net working capital. 19. Estimate production costs.
Work placement	Not applicable

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