



## Subject card

Subject name and code	FEASIBILITY STUDY, PG_00061376						
Field of study	Engineering Management						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2026/2027		
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	5		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
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						
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		7.0		48.0	100
Subject objectives	Designs technical and organizational solutions for the selected production process, taking into account the implementation possibilities in the technical, economic, organizational and environmental context						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K02] makes competent and ethical decisions to create and maintain economic, social and environmental values		makes competent design decisions, taking care to maintain economic, social and environmental values		[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_W01] identifies the determinants of the processes taking place in the analyzed systems and selects methods to solve them using the accumulated knowledge, taking into account the mutual relations between the analyzed phenomena		identifies and uses in design work the conditions for the implementation of the production process using advanced methods of analysis and evaluation		[SW1] Assessment of factual knowledge		

Subject contents	LECTURE Feasibility study, business plan introduction Application of the feasibility study in the life cycle of an investment project - the investment proces Types, purpose of development and content of individual projects in the investment process, including feasibility studies, technical and executive designs, etc. Determination and selection of the organizational structure of the production system presented in the feasibility study Selection of the location of the production system of the analyzed feasibility study Land development plan Development of interiors of industrial and office buildings Designing the arrangement of workstations in facilities Analysis and assessment of the financial effectiveness of the design solution presented in the feasibility study Sensitivity analysis Implementation guidelines, schedule for the implementation of project activities presented in the feasibility study Risk analysis LABORATORY Development of a feasibility study for launching the production of a product prepared and analyzed on previous subjects (production management, product planning) Using previously prepared projects covering the principles of implementation of production processes for selected products, specify, among others: market conditions for the selected product, and a short characteristics of the product and design production program Characteristics of competitors and the market for the selected product Description of the organizational structure of the designed production system Description of the selected system location		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Feasibility study development	60.0%	50.0%
	Test	60.0%	50.0%
Recommended reading	Basic literature	Durlik I.: Inżynieria zarządzania. Cz. I oraz cz. II. Wyd. 7; PLACET, 2019 Inżynieria produkcji. Kompendium wiedzy. Red. R. Knosala. Wyd. PWE 2017 Łada Monika; Kozarkiewicz Alina .: Zarządzanie wartością projektów . Wyd. C.H. Beck 2010 Skrzypek J.: Biznesplan w 10 krokach, Wydawnictwo Poltext, Warszawa 2014 Pająk E.: Zarządzanie produkcją - Produkt, technologia, organizacja. PWN. Warszawa, wyd. 2, 2021	
	Supplementary literature	Behrens W., Hawranek P. M.: Poradnik przygotowania przemysłowych studiów feasibility. Wyd. UNIDO Warszawa 2003; Bangs H.D.,Jr.: Biznesplan recepta na sukces Twojej firmy. (tłum. z ang.). Wyd. ACDI, Warszawa 2006	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Develop a feasibility study of launching - extending the production of the selected product for the conditions of the selected enterprise. The study should include: - Assessment and conclusions resulting from the existing state - Evaluation of the market in terms of the selected product - Technical and organizational solutions - Implementation guidelines - Estimation of the implementation costs of the proposed design solution		
Work placement	Not applicable		

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