GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	SUSTAINABLE SUPPLY CHAIN AND QUALITY MANAGEMENT - TEAM PROJECT, PG_00061130		
Field of study	Management		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2024/2025
Education level	second-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	2	Language of instruction	English
Semester of study	3	ECTS credits	4.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Katedra Inżynierii Zarządzania i Jakości -> Faculty of Management and Economics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Anna Lis	
	Teachers	dr hab. inż. Anna Lis	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	0.0	30.0	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

Formulates research problems in the field of sustainable supply chain, solving them as a team based on reliable data

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U05] cooperates with other people in the implementation of teamwork, both as a leader and a team member, effectively achieving the assumed goals	formulates research problems and solves them as part of teamwork, choosing the right methods to solve them leading to the effective achievement of the assumed goals	[SU3] Assessment of ability to use knowledge gained from the subject
[K7_W06] identifies reliable sources of information relevant to the analyzed issues	identifies reliable sources of information used in the analysis of a sustainable supply chain	[SW1] Assessment of factual knowledge

Subject contents

Introduction
Advantages and challenges of developing sustainable chain management
Areas of sustainable development of the supply chain
Building a sustainable supply chain
Sustainable quality management: assumptions and examples
Environmental management
Environmental management instruments
Life Cycle Assessment
Data collection procedures
Environmental impact assessment
Modeling: cradle-to-gate
Modeling: gate to grave
Sensitivity analysis
Uncertainty analysis
Final test

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Project	60.0%	50.0%
Test	60.0%	50.0%

Recommended reading	Basic literature	Hauschild, M. Z., Rosenbaum, R. K., & Olsen, S. I. (2018). Life cycle assessment. Springer International Publishing, Cham Grant, D. B., Wong, C. Y., & Trautrims, A. (2017). Sustainable logistics and supply chain management: principles and practices for sustainable operations and management. Kogan Page Publishers PN-EN ISO 14040:2009 PN-EN ISO 14044:2009
	Supplementary literature	Siva, V., Gremyr, I., Bergquist, B., Garvare, R., Zobel, T., & Isaksson, R. (2016). The support of Quality Management to sustainable development: A literature review. Journal of cleaner production, 138, 148-157 Bastas, A., & Liyanage, K. (2018). Sustainable supply chain quality management: A systematic review. Journal of cleaner production, 181, 726-744
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Discuss the main assumptions of sustainable supply chains Please list and describe the basic elements in life cycle assessment Please list and describe all steps in cradle-to-grave modeling	
Work placement	Not applicable	