University of Gdańsk

Subject card

Subject name and code	Circular economy and environmentalism , PG_00199006		
Field of study	Economics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2028/2029
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study 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	academic	Assessment form	exam
Conducting unit	Department of Transport Policy and Economic Integration -> Faculty of Economics -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Dorota Książkiewicz	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	15.0	0.0	0.0	0.0	30

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	30	4.0	66.0	100

Subject objectives

The aim of the course is to provide students with knowledge about the principles of the circular economy and the role of green logistics in sustainable development. The course enables students to understand mechanisms of material loop closure, waste minimization, and the environmental impact of logistics operations. Students will explore strategies for designing logistics processes in accordance with circularity principles and tools supporting the transformation of business models toward more sustainable and environmentally friendly solutions.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[EKONL3_U05] uses normative systems (legal, professional, ethical) to solve a specific economic or social task	is able to apply relevant normative systems (legal, environmental, professional, and ethical) to design or evaluate logistics and economic solutions in line with the principles of the circular economy and sustainable development.	[SU5] implementation of a problem task
[EKONL3_U02] is able to use the knowledge of theory and data to analyse concrete economic and social processes and phenomena and to analyse these phenomena using methods developed in economics, finance and management sciences	is able to apply theoretical knowledge and collect data to analyze processes and phenomena related to the circular economy and ecologistics, and to evaluate them using appropriate methods developed in economics, finance, and management sciences.	[SU5] implementation of a problem task
[EKONL3_W07] has an advanced knowledge of the economic and financial principles of the functioning and management of economic entities and organisations as well as the legal, organisational, moral and ethical norms and rules governing the functioning of public institutions	has knowledge of the fundamental economic and financial principles governing the functioning and management of business entities in the context of sustainable development, the circular economy, and ecologistics, as well as of the legal, organizational, ethical, and environmental norms and rules that influence the operation of these entities and public institutions.	[SW5] implementation of a problem task
[EKONL3_K05] correctly identifies, diagnoses and resolves professional dilemmas and different options for solutions	correctly identifies, diagnoses, and resolves dilemmas and alternative solutions related to the implementation of circular economy and ecologistics principles in professional practice, taking into account ethical, environmental, and economic aspects.	[SK5] implementation of a problem task
[EKONL3_W03] knows the relations between economic agents and social organisations operating in the national, international and intercultural arenas	Has advanced knowledge of the relationships between economic entities, social organizations, and public institutions operating within national and international systems of circular economy and ecologistics, taking into account intercultural conditions.	[SW5] implementation of a problem task
[EKONL3_K01] recognises the importance of economic knowledge in identifying and solving economic problems and of consulting experts when difficulties in solving them independently	recognizes the importance of knowledge in the fields of circular economy, ecologistics, and sustainable development economics in identifying and solving economic and environmental problems, and is prepared to consult experts when difficulties arise in solving them independently.	[SK5] implementation of a problem task

Subject contents

1. Assumptions, objectives, and benefits of implementing the Circular Economy (environmental, economic, and social)
2. Principles and models of the Circular Economy (3R, 6R, and 9R reduction, reuse, recycling, and other strategies)
3. Business models based on the Circular Economy: rental, sharing, refurbishing
4. Green supply chains and reverse logistics
5. Methods of environmental impact assessment (LCA Life Cycle Assessment), carbon, water, and material footprints
6. Environmental risk factors in the supply chain
7. Technologies supporting the Circular Economy and sustainable logistics

Students can receive additional support and substantive guidance during consultations with the course instructors.

Prerequisites and co-requisites

Basic logistics knowledge

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
problem solving task	51.0%	100.0%

Recommended reading	Basic literature	Robert Stanisławski, Andrzej Szymonik, Artur Błaszczyk : Nowoczesna koncepcja ekologistyki. Difin 2021 Zrównoważona logistyka. Praca zbiorowa pod red. K. Kolasińskiej-Morawskiej i M. Ziółko, CeDeWu 2023
	Supplementary literature	Krzysztof Małachowski, Gospodarka a środowisko i ekologia. CeDeWu 2023
	eResources addresses	
Example issues/ example questions/ tasks being completed	What are the key differences between linear and circular economy models? Identifying environmental risks in a selected supply chain. Developing a circular business model for a chosen industry sector.	
Work placement	Not applicable	

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