

Subject card

Subject name and code	Circular Economy, PG_00179537						
Field of study	Chemistry						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Master's studies		Subject group		Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Faculty of Chemistry -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. Ewa Siedlecka				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	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		10.0		20.0	60
Subject objectives	The course aims to familiarise students with the principles of the circular economy, their implementation, and the challenges associated with implementing them.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[CHEMMU2_U04] Applies acquired knowledge of chemistry and related scientific disciplines.		knows and understands the current limitations related to the introduction of the circular economy into the economy		[SU2] presentation/project/paper/report		
	[CHEMMU2_K04] Correctly identifies and resolves dilemmas related to the profession of a chemist.		knows and understands the principles of circular economy and the problems resulting from their implementation		[SK1] oral statement/conversation/discussion		
	[CHEMMU2_W02] Has extended and in-depth knowledge in the field of basic chemistry.		understands concepts related to the circular economy (CE) and uses appropriate terminology, understands the idea of CE,		[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report		
	[CHEMMU2_W11] Demonstrates general knowledge about the current trends in the development of chemistry as a science and the latest discoveries in this field.		knows the selected technologies used in the circular economy		[SW1] oral statement/conversation/discussion		
	[CHEMMU2_U03] Finds necessary information in specialist literature, databases and other sources, lists basic scientific journals in chemistry.		can find examples of implementing the circular economy in specialist literature		[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report		
	[CHEMMU2_K03] Understands the need for systematic work on various projects of a long-term nature and knows how to set priorities for the implementation of undertaken tasks.		Completes tasks assigned during classes and those given as homework		[SK2] presentation/project/paper/report		

Subject contents	Definition and concepts related to the circular economy (CE). Discussion of the idea and premises for introducing CE. Discussion of the principles of CE using examples from Poland and abroad. Discussion of technologies included in CE. Presentation of the advantages of the system and challenges during its implementation using examples. Based on the discussed content, propose a system based on CE for a selected plant, city, etc.The classes will be enriched with study visits.		
Prerequisites and co-requisites	lack		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	activity during classes	51.0%	20.0%
	tasks during classes	51.0%	40.0%
	presentation	51.0%	40.0%
Recommended reading	Basic literature	given by the instructor during the class	
	Supplementary literature	given by the instructor during the class	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

Document generated electronically. Does not require a seal or signature.