

Subject card

Subject name and code	Eco-innovation strategies, PG_00080769						
Field of study	Chemical Business, Chemistry, Environmental Protection						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2028/2029		
Education level	Bachelor's studies		Subject group		Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		English		
Semester of study	6		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Advanced Oxidation Processes -> Department of General and Inorganic Chemistry -> 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	15.0	0.0	0.0	0.0	15
	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	15		2.0		33.0	50
Subject objectives	Familiarise students with eco-innovative solutions related to various aspects of the functioning of industry, rural areas and cities, and people's everyday lives.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[CHEML3_U01] Identifies, analyses and solves problems in the field of broadly understood chemistry on the basis of the acquired knowledge.		proposes solutions to environmental problems related to reducing the use of natural resources and reducing emissions of harmful substances throughout the product life cycle; explains the links between environmental pollution and the proposed eco-innovations;		[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU5] implementation of a problem task		
	[CHEML3_W05] Has basic knowledge of the chemical specialisation studied.		Identifies the benefits of implementing eco-innovations in industry, rural and urban areas and in people's everyday lives;		[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report		
	[CHEML3_K06] Raises her/his professional and personal competences by using information provided in various sources.		understand the social aspects of the practical use of knowledge and skills, as well as those related to responsibility		[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report		
	[CHEML3_U11] Prepares and presents oral presentations in various fields of chemistry in Polish and English, using acquired knowledge and skills as well as basic sources of scientific information.		inspires others to learn; cooperates in a group, takes on different roles; shows creativity in determining priorities necessary to carry out various tasks		[SU1] oral statement/conversation/discussion [SU5] implementation of a problem task		
	[CHEML3_W03] Explains the relationship between the structure of matter and its observed properties.		discusses and proposes solutions for different types of eco-innovations;		[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report		

Subject contents	Eco-innovations as the introduction of any new or significantly improved product (good or service), process, organisational change or marketing solution that reduces the use of natural resources (including materials, energy, water and land) and decreases the release of harmful substances across the whole life-cycle. Discussing and proposing solutions concerning various types of eco-innovation: technological, social, organisational, institutional and marketing. Identifying the benefits of implementing eco-innovations in industry, rural and urban areas, and people's everyday lives.		
Prerequisites and co-requisites	non		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	activity during classes	51.0%	30.0%
	carrying out the work assigned by the teacher	51.0%	70.0%
Recommended reading	Basic literature	given by the teacher during the class	
	Supplementary literature	independently searched by the student	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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