



Subject card

Subject name and code	Environment Protection and Management, PG_00060682						
Field of study	Transport and Logistics						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2029/2030		
Education level	first-cycle studies	Subject group			Obligatory subject group in the field of study 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	4	Language of instruction			Polish		
Semester of study	7	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Marine Structures Mechanics and Technology -> Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr Anna Dembicka					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	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	5.0	15.0	50		
Subject objectives	Learning about the directions of environmental protection in transport						
Learning outcomes	Course outcome	Subject outcome		Method of verification			
	[K6_W08] has knowledge of the principles of sustainable development	The student acquired knowledge about the principles of sustainable development		[SW3] Assessment of knowledge contained in written work and projects			
	[K6_U04] is skilled in self-educating in order to develop his professional qualifications, is prepared to work in an industrial environment, applies the principles of occupational health and safety	The student is able to develop his/her competences and work in accordance with occupational health and safety rules		[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject			
	[K6_K03] understands non-technical aspects and effects of activity in the profession of an engineer and its impact on the environment; is aware of the responsibility for decisions made	The student understands the effects of environmental impact. He is responsible for the decisions made as an engineer.		[SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work [SK1] Assessment of group work skills			

Subject contents	<p>Course content – lecture Environmental protection then and now</p> <p>Circular economy (circular economy)</p> <p>Contemporary environmental management in transport Ecology and transport Sustainable transport development strategy until 2030 (reducing the negative impact of transport on the environment) Low and zero emissions in transport Smart city and automobility goals and barriers</p> <p>Artificial intelligence in supporting ecology</p>											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="459 775 794 808">Subject passing criteria</th> <th data-bbox="802 775 1137 808">Passing threshold</th> <th data-bbox="1145 775 1481 808">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="459 819 794 853">lecture - test</td> <td data-bbox="802 819 1137 853">60.0%</td> <td data-bbox="1145 819 1481 853">50.0%</td> </tr> <tr> <td data-bbox="459 864 794 920">aboratory - assessment in accordance with the instructor's guidelines</td> <td data-bbox="802 864 1137 920">60.0%</td> <td data-bbox="1145 864 1481 920">50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	lecture - test	60.0%	50.0%	aboratory - assessment in accordance with the instructor's guidelines	60.0%	50.0%
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Recommended reading	<p>Basic literature</p> <p>Supplementary literature</p> <p>eResources addresses</p>	<p>Innowacje w transporcie, red. nauk. K. Wojewódzka-Król, PWN, Warszawa 2021.</p> <p>B. Tundys, Zielony łańcuch dostaw, CeDeWu, Warszawa 2018.</p> <p>Kowal E., Kucińska-Landwójtowicz A., Miziołek A.: Zarządzanie środowiskowe. PWE, Warszawa 2013.</p> <p>Indicated on an ongoing basis by the instructor</p>										
Example issues/ example questions/ tasks being completed	ecology, sustainable transport, green supply chain, green transport											
Practical activites within the subject	Not applicable											

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