



Subject card

Subject name and code		Occupational Safety and Ergonomics, PG_00060632						
Field of study		Transport and Logistics						
Date of commencement of studies		October 2023	Academic year of realisation of subject			2023/2024		
Education level		first-cycle studies	Subject group			Obligatory subject group in the field of study		
Mode of study		Full-time studies	Mode of delivery			at the university		
Year of study		1	Language of instruction			Polish		
Semester of study		1	ECTS credits			1.0		
Learning profile		general academic profile	Assessment form			assessment		
Conducting unit		Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)		Subject supervisor		dr Anna Dembicka				
		Teachers		dr Anna Dembicka				
Lesson types and methods of instruction		Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
		Number of study hours	15.0	0.0	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		8.0		25
Subject objectives		Providing knowledge about the basic principles of ergonomics and safety in the work environment.						
Learning outcomes		Course outcome		Subject outcome		Method of verification		
		[K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems		Using knowledge of socio-economic and legal sciences, the student is able to solve professional and scientific problems.		[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task		
		[K6_W07] has general knowledge in the field of humanities, social and economic sciences. Knows the principles of creating forms of individual entrepreneurship and running a business, and knows how to protect industrial and intellectual property and copyright law		The student has general knowledge in the area of socio-economic sciences. He learned the rules of running a business and knows the intricacies of copyright law.		[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [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 has acquired the ability to self-educate in order to deepen professional qualifications in an industrial environment. Applies occupational health and safety rules.		[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information		
Subject contents		Characteristics and goals of ergonomics Man in the work process (nervous system, senses, emotions) Work physiology (physical effort, load on the locomotor system) Material factors of the working environment (lighting, colors, microclimate) Anthropometry in ergonomics - determining safety parameters, computer workstation Designing an ergonomic human-machine system Work safety (Labor Code, employee rights and obligations, accidents, occupational diseases) Factors threatening health and/or life in selected work environments (dangerous; harmful - physical, dust, chemical; burdensome) Stress in the work environment and professional predispositions shift work Safe work in a transport company, warehouses, safety signs First aid (cardiopulmonary resuscitation, stopping bleeding, bone and joint injuries, burns)						
Prerequisites and co-requisites								

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		lecture - final test	60.0%
Recommended reading	Basic literature	<p>Ejdys, U. Kobylińska, A. Lulewicz-Sas, Zintegrowane systemy zarządzania jakością, środowiskiem i bezpieczeństwem pracy, Oficyna Wydawnicza Politechniki Białostockiej, Białystok 2012.</p> <p>W. Ł. Nowacka, Ergonomia i ergonomiczne projektowanie stanowisk pracy. Warszawa: Politechnika Warszawska 2010.</p> <p>W. Ł. Nowacka, Zagrożenia człowieka w środowisku pracy. Zagrożenia chemiczne biologiczne i pyłowe. Warszawa: Politechnika Warszawska 2011.</p> <p>W. Bakuła, W. Dzierżyńska, BHP w logistyce i spedycji, WSiP, 2023.</p>	
	Supplementary literature	<p>P. Lubaś Piotr, Diagnoza ergonomicznych czynników ryzyka. Szczecin: Państwowa Inspekcja Pracy 2010.</p> <p>W. Oleszak, Kultura bezpieczeństwa w środowisku pracy. Edukacja Humanistyczna 1(26), 2012.</p>	
	eResources addresses	<p>Adresy na platformie eNauczanie: Bezpieczeństwo pracy i ergonomia (PG_00060632), W, TiL, sem. 1, zimowy 2023/24 - Moodle ID: 32743 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=32743</p>	
Example issues/ example questions/ tasks being completed	List of harmful, burdensome and dangerous factors occurring at the warehouse worker's workplace Ways to reduce the risk of exposure to hazards Ergonomics and work quality		
Work placement	Not applicable		

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