

Subject card

Subject name and code	Safety ergonomics, PG_00055368								
Field of study	Mechatronics								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2025/2026			
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	1		Language of instruction		Polish				
Semester of study	1		ECTS credits		1.0				
Learning profile	general academic pr	Assessment form			assessment				
Conducting unit	Institute Of Mechanics And Machine Design -> Faculty Of Mechanical Engineering And Ship Technology -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor		dr inż. Sławomir Sommer						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	Project Sem		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 classes include plan					Self-study		SUM	
	Number of study hours	15		1.0		9.0		25	
Subject objectives	Acquiring basic know	vledge in the ar	ea of Occupat	ional Safety an	d Ergon	omics.			

Data wygenerowania: 22.04.2025 17:25 Strona 1 z 2

management and knowledge essential for understanding nontechnical conditions of engineering activities; knows basic rules of industrial safety and intellectual property rights; is able to make use of patent databases [K6_U11] is able to evaluate usefulness of methods and tools to solve simple, practical engineering task, distinctive for mechatronics and is able to of ergonomics. It describes its purposes and area of application. It is defined by the human - machine - environment system. Designs the human work environment taking into account the design principles. He uses various human models. It presents the safety and reliability of the human - machine - environment system. [K6_U11] is able to evaluate usefulness of methods and tools to solve simple, practical engineering task, distinctive for mechatronics and is able to	ge						
usefulness of methods and tools to solve simple, practical engineering task, distinctive for mechatronics and is able to of ergonomics. It describes its purposes and area of application. It is defined by the human - machine - environment system.	[SW2] Assessment of knowledge contained in presentation						
choose the proper method and tools Designs the human work environment taking into account the design principles. He uses various human models. It presents the safety and reliability of the human - machine - environment system. It presents the information ability of machines.							
[K6_U10] is able - while formulating and solving mechatronic engineering tasks - to notice their systemwide and nontechnical aspects The student explains the concepts of ergonomics. It describes its purposes and area of application. It is defined by the human - machine - environment system. Designs the human work environment taking into account the design principles. He uses various human models. It presents the safety and reliability of the human - machine - environment system. It presents the information ability of machines.							
environment. The concept of sustainable development. Environmental management systems. Human m and its characteristics. Human possibilities and industrial processes. Human work environment - materia	Definitions of ergonomics, its subject, purpose and application. Description of the human-machine system environment. The concept of sustainable development. Environmental management systems. Human model and its characteristics. Human possibilities and industrial processes. Human work environment - material conditions. Principles of human work environment design. Safety and reliability of the human - machine - environment system. Informativeness of machines.						
Prerequisites and co-requisites Basic knowledge of high school physics.	,						
Assessment methods Subject passing criteria Passing threshold Percentage of the final grad							
and criteria Evaluation of the presentation 60.0% 100.0%							
Recommended reading Basic literature 1) Ergonomics textbook by A L Cohen C C Gjessing L J Fine B P Bernard J D McGlothlin. 2) Product Design and Development Lecture by Dr Inderdeep Sing 3) Applied Ergonomics Lecture by Prof. Shantanu Bhattacharya an Ankur Gupta.	Lecture by Dr Inderdeep Singh.						
Supplementary literature -	-						
eResources addresses Adresy na platformie eNauczanie:	Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed Analysis of the biomechanical process and workstation. Physical capacity of the human body. Diagram of the human-technical system.	Analysis of the biomechanical process and workstation. Physical capacity of the human body. Diagram of the human-technical system.						
Work placement Not applicable							

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Data wygenerowania: 22.04.2025 17:25 Strona 2 z 2