

## Subject card

Subject name and code	Occupational Health and Safety Ergonomics, PG_00041987								
Field of study	Power Engineering, Power Engineering, Power Engineering, Power Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2020/2021			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-time studies		Made of delivery			Humanistic-social subject group e-learning			
Year of study	1		Mode of delivery  Language of instruction			English			
Semester of study	1		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
	-	Department of Machine Design and Vehicles -> Faculty of Mechanical I							
Conducting unit  Name and surname	Subject supervisor	ne Design and	1		ariicai L	rigirieei	Ing and only i	ecinology	
of lecturer (lecturers)	Teachers		dr inż. Ryszard Woźniak dr inż. Ryszard Woźniak						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	0.0	0.0	0.0		15	
	E-learning hours included: 15.0								
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	study 15		3.0		7.0		25	
Subject objectives	Gaining basic knowledge of ergonomics and occupational health and safety.								
Learning outcomes	Course out	Course outcome Subject outcome				Method of verification			
	[K6_K71] is conscious of the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment  [K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems in a social environment		The student explains the concepts of ergonomics. It describes its goals and area of application. Defines the human - machine - environment system. Designs a human work environment taking into account design principles. Applies different human models. Presents the safety and reliability of the human-machine-environment system. Student presents information on machines.			[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work			
			The student explains the concepts of ergonomics. It describes its goals and area of application.  Defines the human - machine - environment system. Designs a human work environment taking into account design principles.  Applies different human models. Presents the safety and reliability of the human-machine-environment system. Student presents information on machines.			[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject			
Subject contents	Definitions of ergonomics, their purposes and application area. Description of man - machine - environment configuration. Conception of balanced development. Environmental management system. Model of man and it's characteristics. Man capabilities versus industrial processes. Environment of working man - circle conditions. Designs principles of environment of working man. Safety and reliable man - machine - environment configuration. Information acquisition of machines.								
Prerequisites and co-requisites	Knowledge of Physics (High School level).								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	End test	50.0%	100.0%			
Recommended reading	Basic literature	oracy i ergonomia", tom I i II. CIOP, łowiek i maszyna - techniczny asne, 1984. 3. Wykowska M.: zo-Hutniczej w Krakowie, Kraków,				
	Supplementary literature	No requirements				
	eResources addresses					
Example issues/ example questions/ tasks being completed	1) definitins of ergonomics					
	) human models					
Work placement	Not applicable					

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