

Subject card

Cubicat name and cade	Supervising safety in the company, PG 00059208							
Subject name and code	Mechanical Engineering							
Field of study								
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies		Subject group					
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	1		Language of instruction			Polish		
Semester of study	2		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname	Subject supervisor	dr inż. Sławomir Szymański						
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	aboratory Project		Seminar	SUM
of instruction	Number of study hours	30.0	0.0	0.0			0.0	30
	E-learning hours inclu	ided: 0.0						_
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-st	udy	SUM
	Number of study hours	30		0.0		0.0		30
Subject objectives	Acquiring knowledge in the field of threats and methods of safety assessment in the workplace. The ability to determine the degree of risk at the workplace The ability to draw up a safety management plan in the workplace							
Learning outcomes	Course outcome		Subject outcome		Method of verification			
	[K7_K02] correctly identifies professional problems and is able to define the priorities and hierarchy using knowledge in solving problems		The student is able to assess the threats at the workplace. Student is able to assess the degree of risk on the workplace. The student knows how apply legal norms to creating jobs.			[SK2] Assessment of progress of work		
	[K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment		The student is able to apply knowledge in the field of employee protection against hazards at the workplace			[SK2] Assessment of progress of work		
	[K7_W11] possesses organized knowledge useful in understanding ex-technical conditioning connected with performing the profession of an engineer and taking it into consideration in engineering practice; possesses wellestablished knowledge within the range of intellectual property, management and organization of manufacturing processes, including the management and lifecycle of a product [K7_K03] understands the		The student can do it in the event			[SW1] Assessment of factual knowledge		
	importance of the necessity of solving dilemmas connected with practicing a profession and providing safe working conditions in manufacturing processes and in operation of machines and devices		protection system employee against the threat.			solve problems that arise in practice		

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Subject contents	Functional safety and work safety. Human error and its consequences in technology and industry. Rules of maintaining safety at work. Methods of occupational risk assessment in industry: methods according to PN-N-18000: three-stage and five-stage, Risk Score method, accident risk assessment procedures Development of a security plan in an industrial enterprise. Management functions in relation to safety in the enterprise: planning, organizing, motivating and controlling. Safety management and quality management in an enterprise. Building a management system work safety in the enterprise. Organizational methods of increasing safety in the enterprise. IT techniques supporting the process of risk assessment, analysis and documentation.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	test	60.0%	100.0%				
Recommended reading	Basic literature	1. Lis T., Nowacki K.: Zarządzanie bezpieczeństwem w zakładzie przemysłowym, Wydawnictwo Politechniki Gliwickiej, Gliwice 2005 2. Karczewski J.T.: Systemy zarządzania bezpieczeństwem pracy. ODDK Gdańsk 2001					
	Supplementary literature	Kosiński R., Grabowski A. "Zastosowanie sztucznych komórkowych sieci neuronowych w inteligentnych systemach bezpieczeństwa", CiOP-PIB 2008 Strawiński T. "Zapewnienie bezpieczeństwa użytkowania maszyn metodami sterowania", CiOP-PIB 2008 Korzeniowski L F. Podstawy nauk o bezpieczeństwie. Zarządzanie bezpieczeństwem, Wyd. Difin, Warszawa 2012					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Determine occupational risks using the Risk score method for a selected workplace (e.g. milling machine operator) List the dangers at the selected workplace (e.g. welder's position) List and characterize the basic methods of risk assessment in the position. List and characterize the sources of threats in a selected industry or in a selected process. Characterize the levels and areas of systemic safety management for the selected one position or process.						
Work placement	Not applicable						

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