

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Laws and standards in ergonomics and work safety</b>		Code <b>1011102221011125145</b>
Field of study <b>Engineering Management - Full-time studies -</b>	Profile of study (general academic, practical) <b>(brak)</b>	Year /Semester <b>1 / 2</b>
Elective path/specialty <b>Quality Systems and Ergonomics</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>elective</b>
Cycle of study: <b>Second-cycle studies</b>	Form of study (full-time, part-time) <b>full-time</b>	
No. of hours Lecture: <b>15</b> Classes: <b>15</b> Laboratory: <b>-</b> Project/seminars: <b>-</b>		No. of credits <b>3</b>
Status of the course in the study program (Basic, major, other) <b>(brak)</b>		(university-wide, from another field) <b>(brak)</b>
Education areas and fields of science and art		ECTS distribution (number and %)
<b>Responsible for subject / lecturer:</b>		
Adam Górný, Ph.D., Eng. email: adam.gorny@put.poznan.pl tel. 61 665 3408 Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań		
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	Basic terms and definitions of work safety and ergonomics and occupational safety management
2	<b>Skills</b>	Ability to observe and analyze working conditions.
3	<b>Social competencies</b>	Awareness of safety at work.
<b>Assumptions and objectives of the course:</b>		
The aim of the course is to learn theoretical and practical problems related to legal regulations and standards in ergonomics and occupational safety.		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
1. He has knowledge of the subject of contextual sciences in relation to management sciences and ergological sciences and their applied research methods as well as the common and specific conceptual apparatus in relation to the sciences of management. - [K2A_W01]		
2. It has deep knowledge of the legal norms, their sources, changes and ways of influencing on organizations - [K2A_W12]		
<b>Skills:</b>		
1. He can use theoretical knowledge to describe and analyze the causes and processes of social and cultural processes (cultural, political, legal, economic) and to formulate his own opinions and select critically the data and methods of analysis. - [K2A_U02]		
2. Has the ability to use acquired knowledge in various fields and forms, extended by critical analysis of the effectiveness and usefulness of applied knowledge. - [K2A_U06]		
<b>Social competencies:</b>		
1. He can perceive causal relationships in the achievement of goals and rank the significance of alternative or competitive tasks. - [K2A_K03]		
2. Is aware of the interdisciplinarity of knowledge and skills needed to solve complex organizational problems and the need to create interdisciplinary teams. - [K2A_K06]		
<b>Assessment methods of study outcomes</b>		

<p>Formative assessment:  Classes: on the basis of a report in a class,  Lectures: on the basis of information check from previous lectures</p> <p>Collective assessment:  Classes: average of the grades achieved report preparation  Lectures: written test, in which at least one answer in correct (scored 0,1) or written answers to open questions (scored 0-3);  Credits will be given after achieving at least 51% of points.</p>		
<b>Course description</b>		
<p>Description and structure of the legal system. European and national legislation on occupational safety and ergonomics. Labor Code (Section X). Implementing regulations based on Kp in area of safety and ergonomics.</p> <p>Normalization, terms, definitions. National and international standardization. National and international standardization bodies. Standardization documents. Technical standards for occupational safety and ergonomics. Accreditation, authorization and notification. Harmonization of standards. Presumption of conformity. The applicability of standards.</p> <p>The lecture is conducted in the form of a conventional lecture.</p> <p>During the exercise there is the round table discussion. During the discussion, the case study and situational method are used. Preparing for classes requires a student's self-study, including work with a book.</p>		
<p><b>Basic bibliography:</b></p> <ol style="list-style-type: none"> <li>Górny A. (2014), Normalizacja w ergonomii. Charakterystyka wymagań normatywnych, Zeszyty Naukowe Politechniki Poznańskiej, Seria: Organizacja i Zarządzanie, nr 63, ss. 51-66.</li> <li>Sarnecki P. (red.), (2013), Prawo konstytucyjne RP, Wydawnictwo C.H. Beck, Warszawa.</li> <li>Schweitzer T. (red.), (2013), Normalizacja, Wydawnictwo PKN, Warszawa.</li> <li>Tomaszewski Z. (2002), Wprowadzenie do techniki, Wydawnictwo Politechniki Poznańskiej, Poznań.</li> <li>Matysek A. (2014), Normalizacja europejska w zakresie informatologii, Wydawnictwo Uniwersytetu Śląskiego, Katowice.</li> <li>Ustawa z dnia 26 czerwca 1974 r. Kodeks pracy (tekst jednolity: Dz. U. 2016, poz. 1666, ze zm.).</li> </ol>		
<p><b>Additional bibliography:</b></p> <ol style="list-style-type: none"> <li>Górny A. (2017), Zarządzanie bezpieczeństwem i higieną pracy w doskonaleniu warunków produkcji ? implikacyjne aspekty wymagań normy ISO 45001, Problemy Jakości, nr 5, ss. 2-8.</li> <li>Górny A. (2012), Zarządzanie informacją w ujęciu systemowym (w oparciu o wymagania normy PN-EN ISO 9001:2009), Zeszyty Naukowe Uniwersytetu Szczecińskiego, Seria: Ekonomiczne Problemy Usług, Nr 87, nr 702, ss. 72-81.</li> <li>czasopismo ?Bezpieczeństwo Pracy?.</li> <li>czasopismo ?Normalizacja?.</li> <li>strona internetowa: <a href="http://isap.sejm.gov.pl">http://isap.sejm.gov.pl</a></li> <li>strona internetowa: <a href="https://www.pkn.pl">https://www.pkn.pl</a></li> </ol>		
<b>Result of average student's workload</b>		
<b>Activity</b>		<b>Time (working hours)</b>
1. Participation in lectures		15
2. Participation in classes		15
3. Consultations with a supervisor		15
4. Preparation for classes		15
5. Preparation for the final exam		15
<b>Student's workload</b>		
<b>Source of workload</b>	<b>hours</b>	<b>ECTS</b>
Total workload	110	4
Contact hours	60	2
Practical activities	15	1