### **Faculty of Engineering Management**

		STUDY MODULE D	ESCRIPTION FORM		
Name o	f the module/subject	Code			
Man	agement of ardu	1011102231011125150			
Field of study			Profile of study (general academic, practical	Year /Semester	
Engineering Management - Full-time studies -			(brak)	2/3	
Elective path/specialty			Subject offered in:	Course (compulsory, elective)	
Quality Systems and Ergonomics			Polish	elective	
Cycle of	f study:		Form of study (full-time,part-time)		
Second-cycle studies			full-time		
No. of h	ours			No. of credits	
Lectur	e: <b>30</b> Classes	s: <b>15</b> Laboratory: -	Project/seminars:	- 4	
Status o	of the course in the study	program (Basic, major, other)	(university-wide, from another	field)	
(brak)					
Education	on areas and fields of sci	ence and art		ECTS distribution (number and %)	
Ada ema tel. ( Fac	onsible for subjection on Sible for subjection of Manangement Strzelecka 11, p. 318c.	ooznan.pl Engineering			
Prere	equisites in term	s of knowledge, skills and	d social competencies	:	
1	Knowledge	Basic information on safety management systems according to standards OHSAS-18001 and series PN-N-18000. Knowledge of methods of occupational risk assessment.			
2	Skills	Ability to analyze the working en	vironment.		

### Assumptions and objectives of the course:

The aim of the course is to familiarize students with the basic safety and health management systems at work.

Awareness of health and safety at work.

### Study outcomes and reference to the educational results for a field of study

### Knowledge:

Social

competencies

- 1. Has knowledge of the subject regarding contextual sciences in relation to the management sciences, ergological sciences, the applied research methods as well as common and specific conceptual apparatus in relation to management sciences IK2A W011
- 2. Can use the theoretical knowledge to describe and analyse the causes and processes social phenomena (cultural, political, legal, economic) as well as can formulate their own opinions and choose critical data and methods of analysis [K2A\_W06]

### Skills:

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- 1. Is able to correctly interpret and explain the phenomenon of cultural, social, political, legal, economic), and mutual relationships between social phenomena [K2A\_U01]
- 2. Can use the theoretical knowledge to describe and analyze the causes, the course of processes and social phenomena (cultural, political, legal, economic), as well is able to formulate his own opinions, select critical data or methods of analysis -[K2A\_U02]
- 3. Is able to predict, model some complex social processes that involve phenomena from different areas of social life (cultural, political, legal, economic) using advanced methods and tools in the field of economic sciences and a discipline of management sciences [K2A\_U04]
- 4. Has the ability to use knowledge gained in different areas and forms, extended by a critical review of the effectiveness and suitability of the applied knowledge [K2A\_U06]
- 5. Has the ability to independently propose solutions to a specific management problem and to carry out a resolution procedure, in this regard [K2A\_U07]

### Social competencies:

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- 1. Can perceive causal relationships in the achievement of goals and rank the significance of alternative or competitive tasks [K2A K03]
- 2. Can contribute to a factual input in the preparation of the social projects and manage the ventures resulting from these projects [K2A\_K05]
- 3. Is aware of the interdisciplinary character of knowledge and skills that are needed to solve complex problems of an organization and a necessity to create interdisciplinary teams [K2A\_K06]

### Assessment methods of study outcomes

Formative assessment:

Classes: on the basis of a report in a class,

Lectures: on the basis of information check from previous lectures

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.

### Course description

The nature and objectives of safety management system and health of workers in enterprises. Characteristics of the basic models of safety management systems and health at work. Costs of occupational safety. Methods for assessing the functioning of the occupational safety management. Methods risk assessment in occupational safety management systems. Computer tools to help manage occupational safety.

The lecture is conducted in the form of a conventional lecture.

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.

### Basic bibliography:

- 1. Dahlke G., Górny A., Horst W. (2013), Zarządzanie uciążliwością i bezpieczeństwem pracy, Wydawnictwo Politechniki Poznańskiej, Poznań.
- 2. Górny A. (2011), Zarządzanie ryzykiem zawodowym, Wydawnictwo Politechniki Poznańskiej, Poznań.
- 3. Górska, E., Lewandowski, J. (2010), Zarządzanie i organizacja środowiska pracy. Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa.
- 4. Karczewski J.T., Karczewska, K.W. (2012), Zarządzanie bezpieczeństwem pracy, ODiDK, Gdańsk.

### Additional bibliography:

- 1. prac. zb. (2013), Zarządzanie. Teoria i praktyka, PWN, Warszawa
- 2. Bryła R. (2011), Bezpieczeństwo i higiena pracy, Elamed, Katowice.
- 3. Górny A. (2009), Kształtowanie warunków oświetleniowych jako czynnika minimalizacji uciążliwości pracy, [w:] J. Charytonowicz (red.), Wybrane kierunki badań ergonomicznych w 2009 roku, ss. 59-70, Wydawnictwo Polskiego Towarzystwa Ergonomicznego PTErg, Oddział we Wrocławiu, Wrocław.
- 4. Górny A. (2011), Kryteria SMART w planowaniu działań podejmowanych po ocenie ryzyka zawodowego, [w:] J. Charytonowicz (red.), Zastosowania ergonomii. Wybrane kierunki badań ergonomicznych w 2011 roku, ss. 75-86, Wydawnictwo Polskiego Towarzystwa Ergonomicznego PTErg, Oddział we Wrocławiu, Wrocław.
- 5. Górny A. (2008), Wykorzystanie FMEA w procesie identyfikacji zagrożeń i oceny ryzyka zawodowego, [w:] J. Charytonowicz, W. Pilecki (red.), Zastosowania Ergonomii / Wybrane kierunki badań ergonomicznych w 2008 roku, ss. 75-86, Wydawnictwo Polskiego Towarzystwa Ergonomicznego PTErg, Oddział we Wrocławiu, Wrocław.
- 6. Górny A., Ogrodowczyk P. Górny A. (2008), Wykorzystanie elementów systemowego zarządzania bezpieczeństwem pracy w doskonaleniu warunków pracy, [w:] E. Kowal (red.), Inżynieria Ergonomii, t. II: Zarządzanie warunkami pracy, ss. 15-24, Uniwersytet Zielonogórski, Zielona Góra.

## Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	30
2. Participation in classes	15
3. Preparation for classes	25
4. Consultations with a supervisor	15
5. Preparation for the final exam	25
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### Student's workload

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# Poznan University of Technology Faculty of Engineering Management

Source of workload	hours	ECTS
Total workload	110	4
Contact hours	60	2
Practical activities	15	1