STUDY MODULE DESCRIPTION FORM						
Name of the module/subject Management of ard	uous work and work safety	Code 1011105331011125150				
Field of study		Profile of study	Year /Semester			
Engineering Manage	ement - Part-time studies -	(general academic, practical) (brak)	2/3			
Elective path/specialty		Subject offered in:	Course (compulsory, elective)			
Quality Systems and Ergonomics		Polish	elective			
Cycle of study:		Form of study (full-time,part-time)				
Second-cycle studies		part-time				
No. of hours			No. of credits			
Lecture: 20 Classe	es: 14 Laboratory: -	Project/seminars:	- 4			
Status of the course in the study program (Basic, major, other)		(university-wide, from another f	ield)			
(brak)		(brak)				
Responsible for sub Adam Górny, Ph.D., Eng email: adam.gorny@put.	I.		and %)			
tel. 61 665 3408 Faculty of Manangemen ul. Strzelecka 11, p. 318	Engineering					
•	ns of knowledge, skills and	d social competencies:				
1 Knowledge	Basic information on safety man series PN-N-18000. Knowledge					
2 Skills	Ability to analyze the working environment.					
3 Social competencies	Awareness of health and safety at work.					
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.						
Study outcomes and reference to the educational results for a field of study						
Knowledge:						
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 - [K2A_W01]						
2. Can use the theoretical k legal, economic) as well as	nowledge to describe and analyse can formulate their own opinions a					
Skills:						
1. Is able to correctly interpretent relationships between social	ret and explain the phenomenon of I phenomena - [K2A_U01]	cultural, social, political, legal,	economic), and mutual			
	nowledge to describe and analyze nomic), as well is able to formulate					
political, legal, economic) us management sciences - [k		the field of economic science	s and a discipline of			
4. Has the ability to use knowledge gained in different areas and forms, extended by a critical review of the effectiveness an 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	:					

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

Activi	ity	Time (working hours)
. Participation in lectures		20
. Participation in classes		14
3. Preparation for classes		30
4. Consultations with a supervisor		16
5. Preparation for the final exam		20
•	udent's workload	20

Source of workload	hours	ECTS
Total workload	100	4
Contact hours	50	2
Practical activities	50	2