

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject The management of occupational risk		Code 1011102211011126469
Field of study Safety Engineering - Full-time studies - Second-	Profile of study (general academic, practical) (brak)	Year /Semester 1 / 1
Elective path/specialty Work Safety Management	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: Second-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 15 Classes: 15 Laboratory: - Project/seminars: 15		No. of credits 2
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art		ECTS distribution (number and %)
Responsible for subject / lecturer: Adam Górny email: adam.gorny@put.poznan.pl tel. 61 665 34 07 Wydział Inżynierii Zarządzania ul. Strzelecka 11, 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	The student has a basic knowledge of the methodology of risk assessment and management process.
2	Skills	The student is able to assess occupational risks at the workplace.
3	Social competencies	The student is aware of the role and meaning of risk assessment to ensure safety.
Assumptions and objectives of the course: Revising and expanding the knowledge of risk assessment and familiarizing students with the basic concepts related to the process of occupational risk management training.		
Study outcomes and reference to the educational results for a field of study		
Knowledge: 1. Has knowledge of the types and sources of occupational risks to a human and to the external environment in a variety of manufacturing techniques and various technologies related to the processing of raw materials, energy and information, risk assessment and other - [K2A_W10] 2. It has a basic knowledge of the life cycle of equipment, facilities, and technical systems in the context of ergonomic circumstances, safety, phases of the production process, division of work process into its constituent parts, specificity of human tasks in the production techniques, services and in conceptual, design principles of humanized forms in organization of work - [K2A_W20]		
Skills:		

<p>1. Can acquire, integrate, interpret data from literature, database or other properly matched sources, both in English or other foreign language accepted as an international language of communication within Safety Engineering, as well as to draw conclusions, formulate and justify opinions - [K2A_U01]</p> <p>2. Can apply various techniques in order to communicate in occupational environment and other environments - [K2A_U02]</p> <p>3. Can create, both in English and Polish language, a well- documented report of problems within Safety Engineering, which present the results of their own research - [K2A_U03]</p> <p>4. Can prepare and give oral presentation relating to detailed issues within the realm of Safety Engineering in Polish and other foreign language - [K2A_U04]</p> <p>5. Has self-study ability and comprehends it - [K2A_U05]</p> <p>6. Student can apply information-communicative techniques to deal with tasks that are typical of engineering activity - [K2A_U07]</p> <p>7. Can, while formulating and solving engineering tasks, discern their systemic and non-technical aspects and also socio-technical, organizational and economic approach - [K2A_U10]</p> <p>8. Can come up with a suggestion how to make use of state-of-the art technology (techniques and technology) within the studied subject - [K2A_U12]</p> <p>9. Has got the preparation that is indispensable to be able to work in an industrial environment and also knows safety rules connected with a given work along with the ability to impose their use in practice - [K2A_U13]</p> <p>10. Student can, according to a given specification, design and operate simple equipment, object, system or a process, typical for Safety Engineering, while using appropriate methods, techniques and tools, as well as solve complex engineering tasks, characteristic of Safety Engineering (including some uncommon ones which possess research component) - [K2A_U18]</p>
<p>Social competencies:</p> <p>1. Understands the need and knows means how to self-study (first, second and third cycle studies, postgraduate studies, qualification courses)- improving professional, personal and social competence; can argue the need to learn for the whole life - [K2A_K01]</p> <p>2. Student is fully aware of the responsibility that he has taken for his own work and expresses readiness to comply with the rules of team work as well as responsibility for mutually realized and completed tasks - [K2A_K03]</p> <p>3. Can determine some causal relationships in the process of targets implementation and rank pertinence of alternative or competitive tasks - [K2A_K04]</p>

Assessment methods of study outcomes	
<p>Formative assessment:</p> <p>Classes: on the basis of a report in a class, Projects: progress in project work Lectures: on the basis of written answers of the questions connected with the covered lecture content</p> <p>Collective assessment:</p> <p>Classes: average of the grades achieved report preparation Projects: assessment of an individual; project Lectures: written test, in which at least one answer in correct (scored 0 or 1) or written answers to open questions (scored 0-3);. Credits will be given after achieving at least 31% of points.</p>	
Course description	
<p>The essence of occupational risk management, occupational risk (ain a management function), Improvement actions occupational risk management. Implementation of safety objectives. Implementation of improvement activities. Risk management in technology. Levels of excellence within improvement tasks.</p>	
Basic bibliography:	
<p>1. Pietrzak L., Zarządzanie bezpieczeństwem pracy i ryzykiem (Occupational safety and risk management), Centralny Instytut Ochrony Pracy, Warszawa, 2001</p> <p>2. Górny A., Zarządzanie ryzykiem zawodowym (Occupational risk management), Wydawnictwo Politechniki Poznańskiej, Poznań 2011</p>	
Additional bibliography:	
<p>1. Smoliński D., Ocena ryzyka zawodowego (Occupational risk assessment), Wyd. ODDK, Gdańsk, 1999</p> <p>2. Koradecka D. (red.), Bezpieczeństwo pracy i ergonomia (Occupational safety and ergonomics), t. I i II, Centralny Instytut Ochrony Pracy, Warszawa, 1997</p>	
Result of average student's workload	
Activity	Time (working hours)

1. Participation in lectures	15	
2. Participation in project work	15	
3. Participation in classes	15	
4. Preparation for classes	10	
5. Preparation of a project work	20	
6. Preparation for written pass (based on lectures)	7	
7. Overview of the credits	2	
8. Preparation of reports (on the basis of classes)	6	
Student's workload		
Source of workload	hours	ECTS
Total workload	90	3
Contact hours	47	2
Practical activities	30	1