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		STUDY MODULE D	FS	CRIPTION FORM			
Name of the module/subject						de 11102231011126465	
Field of study				Profile of study (general academic, practical) (brak)		Year /Semester	
Safety Engineering - Full-time studies - Second			ıu-	` '		2/3	
Elective path/specialty Ergonomics and Work Safety				Subject offered in: Polish		Course (compulsory, elective) elective	
Cycle of study:				m of study (full-time,part-time)			
Second-cycle studies				full-time			
No. of h	ours		1			No. of credits	
Lectur	e: 15 Classes	s: - Laboratory: 30)	Project/seminars:	15	4	
Status c	of the course in the study	program (Basic, major, other)	(university-wide, from another fi	ield)		
		(brak)			(bra	ak)	
Education areas and fields of science and art ECTS distribution and %)							
Resp	onsible for subje	ect / lecturer:	Re	sponsible for subjec	ct /	lecturer:	
dr inż. Małgorzata Wejman				- dr Joanna Sadłowska-Wrzesińska			
email: malgorzata.wejman@put.poznan.pl				email: - joanna.sadlowska-wrzesinska@put.poznan.pl			
tel. +48 61 665 3406				tel 616653364 - Faculty of Engineering Management			
Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań				- ul. Strzelecka 11 60-965 Poznań			
Prere	quisites in term	s of knowledge, skills and	d s	ocial competencies:			
1	Knowledge	The student has knowledge of ergonomics in technology, ecology, basics of diagnosing and ergonomic design as well as occupational.					
2	Skills	The students can interpret relationships occurring in the system of human-technical object, organize work that causes minimal workload ensures security.					
3	Social competencies	The student is aware of the social role of a technical college graduate, and of predispositions to apply occupational safety principles.					
Assu	mptions and obj	ectives of the course:					
diagno: studen	sis occupational safety t to apply ergonomic o and suggesting the pro	etailed knowledge of the theoretically of a man. The use of diagnosis radiagnoses and occupational safety oposals for corrective action.	resul /, in t	ts in design. The knowledg erms of adapting work to the	e ar ne c	nd skills should allow the apabilities of the human	
Study outcomes and reference to the educational results for a field of study							

Knowledge:

- 1. Has extensive knowledge of recognizing the association of a certain problem to a given discipline. [[K2A_W01]]
- 2. Knows an in-depth characterization of dependencies within a given discipline. [[K2A_W02]]
- 3. Knows the definition of the subject and scope of the discipline. [[K2A_W04]]
- 4. Knows the relationships between a given discipline and other disciplines. [[K2A_W06]]
- 5. Has a basic knowledge of the objects and organizational and socio-technical systems lifecycle. [[K2A_W16]]
- 6. Knows the basic dependencies that exist when solving simple engineering problems in the field of safety engineering. -[[K2A_W19]]

Skills:

Faculty of Engineering Management

- 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_U1]]
- 2. Can apply various techniques in order to communicate in occupational environment and other environments. [[K2A_U2]]
- 3. Has self-study ability and comprehends it [[K2A_U5]]
- 4. Student can apply information-communicative techniques to deal with tasks that are typical of engineering activity. [[K2A_U7]]
- 5. Is able to plan and carry out experiments, including measurements and computer simulations to interpret the results and draw conclusions. [[K2A_U8]]
- 6. Can, while formulating and solving engineering tasks, discern their systemic and non-technical aspects and also sociotechnical, organizational and economic approach. [[K2A_U10]]

Social competencies:

- 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 argument the need to learn for the whole life. [[K2A_K1]]
- 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_K3]]
- 3. Can determine some causal relationships in the process of targets implementation and rank pertinence of alternative or competitive tasks. [[K2A_K4]]

Assessment methods of study outcomes

- Checking the knowledge before the laboratory exercises.
- Preparation of reports on activities.
- Final test

Course description

- -Living and working environment of a man. Technology as a source of occupational environmental risks to human.
- -The man- technology-environment system as an object of a diagnosis.
- -Diagnosing loads in the work environment.
- -Computer-aided diagnosis process of an occupational environment.

Basic bibliography:

- 1. Wejman M., Diagnozowanie środowiska pracy. Ćwiczenia laboratoryjne, Wyd. Politechniki Poznańskiej, Poznań 2012
- 2. Horst W.M., Diagnozowanie sposobu wykonywania pracy. Zagrożenia ergonomiczne, Wyd. Politechniki Poznańskiej 2012

Additional bibliography:

- 1. Normy, standardy i akty prawne wskazane na zajęciach.
- 2. Horst W.M., Wprowadzenie do diagnozowania sposobu wykonywania pracy. Wybrane zagadnienia fizjologii, biomechaniki i antropometrii, Wyd. Politechniki Poznańskiej 2012
- 3. Lewicki L., Sadłowska-Wrzesińska J., Istotne aspekty BHP, Wydawnictwo WSL, Poznań 2015.

Result of average student's workload

Activity	Time (working hours)
Participation in laboratory classes	30
2. Preparationfor for classes	15
3. Preparation of reports	15
4. Preparation for the final assignment	35

Student's workload

Source of workload	hours	ECTS
Total workload	95	4
Contact hours	60	2
Practical activities	45	2