Knowledge: 1. Knows the basic dependencies in a given discipline. 2. Knows the meaning of concepts that rule a given dis. 3. Knows the definition of the subject and scope of the. 4. Knows the advanced dependencies for the given dis. 5. Knows the characteristic phenomena for a given dis. 6. Knows the current trends within the discipline [[K:7. Knows interpretations of characteristics for a given of Skills:		Study outcomes and reference
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4. Knows the advanced dependencies for the given dis 5. Knows the characteristic phenomena for a given dis 6. Knows the current trends within the discipline [[K ²] 7. Knows interpretations of characteristics for a given of	2. Kr	nows the meaning of concepts that rule a given dis
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Skills:	7. Kr	nows interpretations of characteristics for a given of
	Skil	lls:

STUDY MODULE D	ESCRIPTION FORM	
Name of the module/subject Work safety ergonomics		Code 1011104241011123035
Field of study	Profile of study (general academic, practical)	Year /Semester
Safety Engineering - Part-time studies - First-	(brak)	2/4
Elective path/specialty	Subject offered in:	Course (compulsory, elective)
-	Polish	obligatory
Cycle of study:	Form of study (full-time,part-time)	
First-cycle studies	part-	time
No. of hours		No. of credits
Lecture: - Classes: - Laboratory: -	Project/seminars:	10 1
Status of the course in the study program (Basic, major, other)	(university-wide, from another fi	eld)
(brak)		(brak)
Education areas and fields of science and art		ECTS distribution (number and %)
technical sciences		1 100%

Responsible for subject / lecturer:

dr inż. Małgorzata Wejman email: malgorzata.wejman@put.poznan.pl tel. +48 61 665 3406 Faculty of Engineering Management

ul. Strzelecka 11 60-965 Poznań

Prerequisites in terms of knowledge, skills and social competencies:

1	Knowledge	The student defines and characterizes: basic knowledge of mathematics, physics, chemistry, basic technologies of production processes, selected concepts within the sciences of organization and management, basics of ocupational safety management. The student has knowledge of lectures and laboratory exercises with the subject "Ergonomics in occupational safety"
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.

Assumptions and objectives of the course:

-Teaching students how to prevent the negative consequences of excessive workload. Understanding the theoretical and practical problems in the design and organization of technical systems to ensure ergonomics and safety. The use of the acquired knowledge to solve problems in the field of adapting the work to the capabilities of the human body and ensuring safety.

to the educational results for a field of study

- e. [[K1A_W24}]
- scipline for Safety Engineering. [[K1A_W08]]
- discipline. [[K1A_W11]]
- scipline. [[K1A_W17]]
- scipline. [[K1A_W13]]
- 1A_W18]]
- discipline. [[K1A_W09]]

Faculty of Engineering Management

- 1. Is able to plan and carry out experiments, including measurements and computer simulations, to interpret the results and draw conclusions. [[K1A_U08]]
- 2. It has the necessary preparation to work in an industrial environment, knows safety rules connected with a given wok and is able to enforce their use in practice. [[K1A_U11]]
- 3. . Can make a critical analysis of the methods of operation and evaluate the existing technical solutions, in particular for machinery, equipment, facilities, systems, processes, services. [[K1A_U13]]
- 4. . Is able to identify and formulate the specifications of simple engineering tasks of practical nature, characteristic to safety engineering. [[K1A_U14]]
- 5. . Is able to assess the suitability of methods and tools, as well as select and apply appropriate methods and tools and use them effectively. [[K1A_U15]]

Social competencies:

- 1. . Understands the need and knows means how to self-study, improves his professional, personal and social competence; can argument the need to learn for the whole life [[K1A_K01]]
- 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. [[K1A_K03]]
- 3. Can determine some causal relationships in the process of targets implementation and rank pertinence of alternative or competitive tasks. [[K1A_K04]]
- 4. The student is aware of the social role of a technical college graduate. Takes up an effort to pass these information and opinions, which were commonly understood. [[K1A_K07]]

Assessment methods of	f study outcomes	
-Project assessment		
Course descr	iption	
-Ergonomic aspects of man-machine system. Models of the course a of physiological work, preventing overloads. The arduousness and h The human factor in the organization of work and management. Phy Information- decision-making processes, controlling the machines ar and organization of the work. The crux of ergonomic approach (proje Methods of work, tasks and their execution. Posture and movement	azard of work. The health effects sico-chemical environment factor and technical equipment. Anthrop ect management, checklists). Ma	s of excessive burden. ors of the human work. ometric base formation urketing ergonomics.
Basic bibliography:		
Additional hibliography		
Additional bibliography:		
Result of average stud	ent's workload	
Result of average stud	lent's workload	Time (working hours)
<u> </u>	ent's workload	
Activity	lent's workload	hours)
Activity 1. Participation in projects		hours)
Activity 1. Participation in projects 2. Preparing projects		hours)
Activity 1. Participation in projects 2. Preparing projects Student's wor	rkload	hours) 10 10

Practical activities

10

2