		STUDY MODULE D	ESCRIPTION FORM			
	f the module/subject nology and Proc	cesses Planning 1	Code 1011104241011126098			
Field of study Safety Engineering - Part-time studies - First-			Profile of study (general academic, practical (brak)	Year /Semester		
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		
Lectur	e: 8 Classes	s: - Laboratory: 8	Project/seminars:	- 2		
Status c		program (Basic, major, other)	(university-wide, from another field)			
		(brak)		(brak)		
Educatio	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
Resp	onsible for subj	ect / lecturer:				
	ab. inż. Józef Gruszka					
	iil: jozef.gruszka@put 6653408	.poznan.pi				
	ulty of Engineering Ma	-				
	Strzelecka 11 60-965 F					
Prere	quisites in term	s of knowledge, skills and	d social competencies:			
1	Knowledge	Basic knowledge from high school. The necessary information in the field of technology and machine parts will be explained subsequently.				
2	Skills	Ability to solve simple problems,	, the ability to obtain information from the identified sources			
3	Social	Understanding the importance of technical sciences and their applications				
	competencies					
		ectives of the course:				
The aim of the course is to familiarize students with the theoretical and practical issues related to the design of technological processes and assembly processing with particular emphasis on the conditions within the market economy. Preparation of documentation regarding technological process.						
	Study outco	mes and reference to the	educational results for	a field of study		
Know	/ledge:					
		roducts? lifecycle - [K01-InzA_W0				
		ods, techniques, tools and materia oitation - [K04-InzA_W02]	Is that are applied in solving si	mple engineering tasks relating		
3. Knov		trial technologies and has an exte	nsive knowledge of building te	chnologies and machines?		
Skills		-				
	ole to identify the proje -InzA_U2]	ect tasks and solve simple design	tasks in the field of construction	n and exploitation of machinery		
		cal and economic analysis of the				
		yze technological processes and o				
4. Can design a structure or technology of simple machinery parts and components as well as design the organization of the production units of the first complexity degree - [K01-InzA_U06, K01-InzA_U07]						
Socia	I competencies:					
1. Recognizes the importance of design and organization of technological processes in business engineering - [K01-InzA_K1						
2. Is av	vare of the significanc	e of good design processes in fini	shed products - [K01-InzA_K2]		
		According to the set	de ef etudy euteemee			

Assessment methods of study outcomes

Formative assessment:						
Laboratories: on the basis of the current progress						
Lectures: on the basis of the answers to the questions regarding the covered material during previous lectures						
Collective assessment:						
Lecture: written exam on the basis of previously prepared set of questions						
Written assignment based in laboratories						
Course description						
The course covers the following topics: Documentation of technological process. Technical standards of working time. Quality. The accuracy of the machining process. The structure of the typical process engineering. Editing. Design of the assembly process. Elements of automation and robotic manufacturing processes. Analysis of the cost. Quality control. Certification. Surveying and layout fits. Tolerances.						
Project activities include the design of a technological process of a selected part, the documentation of the process and a variant analysis of the cost regarding process implementation. Laboratories conducted in the factory. Unconventional methods of education. Selected technological production processes.						
Basic bibliography:						
Additional bibliography:						
Result of average student's workload						
		Time (working				
Activity		hours)				
1. lecture		30				
2. laboratories		30				
3. consultation		18				
4. preparation for classes		15				
5. preparation for credits	15					
6. credits		2				
Student's workload						
Source of workload	hours	ECTS				
Total workload	110	2				

Contact hours

Practical activities

80

30

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