		STUDY MODULE D	ESCRIPTION FORM					
Name of the module/subject Tool management			Code 1011104371011115718					
Field of			Profile of study (general academic, practical					
Logistics - Part-time studies - First-cycle			general academic		4/7			
Elective	path/specialty	-	Subject offered in: Polish	Course (compulsory				
Cycle of	f study:		Form of study (full-time,part-time)					
First-cycle studies			part-time					
No. of h	ours			No. of credits				
Lectur	0100000	,	Project/seminars:	12 3				
Status of the course in the study program (Basic, major, other)			(university-wide, from another field) university-wide					
Educati	on areas and fields of sci	other	univ	ECTS distribution (n	umber			
Eudoddi				and %)				
techr	nical sciences			3 100%				
	Technical scie	ences		3 100)%			
Resp	onsible for subje	ect / lecturer:						
	ab. Inż. Marek Fertsch							
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Wyo	dział Inżynierii Zarządz							
ul. S	Strzelecka 11, 60-965	Poznań						
Prere	quisites in term	s of knowledge, skills an	d social competencies:	:				
1	Knowledge	Students knows basic terms wit	hin the logistics area					
2	Skills	Student has capability of noticir	ng, associating, interpreting phenomenas within logistics area					
3	Social competencies	Student is aware of influence of of logistics on competitive edge of companies						
Assu	-	ectives of the course:						
Providi	ng students with know	ledge, skills and social competer	nces connected with tools mana	agement in machining ir	ndustry			
	Study outco	mes and reference to the	educational results for	a field of study				
Knov	vledge:							
1. has [K1A_\	0	engineering graphics, constructi	on, technology and exploitation	pf materials (T1A_W02	2) -			
	0	mechanics and machines const		. – .				
3. can explain basic concepts for logistics and its specific issues (inventory management, logistics, distribution, logistics, manufacturing and sourcing, logistics operation, ecologistics) and supply chain management - [K1A_W15]								
4. is able to recognize the basic phenomena characteristic for logistics and its specific issues (inventory management, logistics, distribution, logistics, manufacturing and sourcing, logistics operation, ecologistics) and supply chain management - [K1A_W16]								
	5. can explain in detail the specific concepts for logistics and its specific issues and supply chain management - [K1A_W17]							
logistic	6. can define basic interdependencies in logistics and its specific issues (inventory management, logistics, distribution, logistics, manufacturing and sourcing, logistics operation, ecologistics) and supply chain management - [K1A_W18]							
7. can identify contemporary trends in logistics and its specific issues (inventory management, logistics, distribution, logistics, manufacturing and sourcing, logistics operation, ecologistics) and supply chain management - [K1A_W19]								
manufa	8. can characterize best practices in logistics and its specific issues (inventory management, logistics, distribution, logistics, manufacturing and sourcing, logistics operation, ecologistics) and supply chain management - [K1A_W20]							
design	ing systems and logist	hniques, tools and materials appl ics processes - [K1A_W23]	ied when solving simple engine	ering tasks connected	with			
Skills	5:							

1. can independently develop the for the problem within the field of studies - [K1A_U05]

2. can formulate project task using analytical methods, simulation or experiments falling within the field of studies and solve the task in the field of logistics and its specific issues (inventory management, logistics, distribution, logistics, manufacturing and sourcing, logistics operation, ecologistics) and supply chain management - [K1A_U09]

3. can make a critical analysis of the problem within the logistics and its specific issues (inventory management, logistics, distribution, logistics, manufacturing and sourcing, logistics operation, ecologistics) and supply chain management - [K1A_U13]

4. can design using appropriate methods and techniques a building, system or process that meets the requirements within the framework of logistics and its specific issues (inventory management, logistics, distribution, logistics, manufacturing and sourcing, logistics operation, ecologistics) and supply chain management - [K1A_U16]

Social competencies:

1. The student is willing to cooperate and work in a project group - [K1A_K03]

2. The student is aware of the responsibility for their own work and willingness to comply with the principles of teamwork and accountability in the project group - [K1A_K04]

3. The student is aware of the potential conflict between the procurement and production departments - [K1A_K05]

Assessment methods of study outcomes

Forming Rating:

a) In terms of the project: on the basis of progress in the implementation phases of the project, and knowledge of the issues necessary for its implementation b) for laboratory: on the basis of discussions on the knowledge of the issues necessary for the proper performance of the laboratory exercises c) in terms of the lecture: on the basis of responses to questions about issues discussed in the previous lectures

Summary Rating:

a) In terms of the project: on the basis of (1) the quality of the merits of the project (2) The presentation of the project b) In terms of laboratories: based on reports prepared. c) in respect of the lecture: on the basis of test - written work on the issues discussed in the lecture. The student is allowed to take an take the exam after the assessments of the project and the laboratory. The exam is passed, after giving the correct answer to most of the substantive issues discussed

Course description

Lectures: Planning tool wear: statistical methods, the method of statistical factors, analytical method. Tool Management Organization. Production program tooling. Tooling equipment. Tooling staff. The organization of production tools. Actions of production tools providers. The single and multibrand systems. Services of tools suppliers. Stocks of tools.

Exercises: Planning tool wear: statistical methods, the method of statistical factors, analytical method. Tool Management Organization. Production program tooling. Tooling equipment. Tooling staff. The organization of production tools. Actions of production tools providers. The single and multibrand systems. Services of tools suppliers. Stocks of tools.

Basic bibliography:

1. Liwowski B., Kozłowski R., Podstawowe zagadnienia zarządzania produkcją, Oficyna Wolters Kluwer business, Kraków 2007

2. Banaszak Z., Kłosa S., Mleczko J., Zintegrowane systemy zarządzania , Polskie Wydawnictwo Ekonomiczne, Warszawa 2011

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)	
1. lectures	14	
2. project	12	
3. consultation	15	
4. student?s individual work	30	
Student's wo	orkload	
Source of workload	hours	ECTS
Total workload	71	3
Contact hours	41	2

Practical activities

12

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