STUDY MODULE DESCRIPTION FORM							
	f the module/subject itional and mode	ern production systems	Code 1011105411011117644				
Field of study			Profile of study		Year /Semester		
Logistics - Part-time studies - Second-cycle			(general academic, practical (brak))	1/1		
Elective path/specialty			Subject offered in:		Course (compulsory, elective)		
Corporate Logistics			Polish		elective		
Cycle of	study:		Form of study (full-time,part-time)				
Second-cycle studies			part-time				
No. of h	ours				No. of credits		
Lectur	e: 16 Classes	s: - Laboratory: -	Project/seminars:	16	5		
Status of the course in the study program (Basic, major, other)			(university-wide, from another				
5 1 <i>c</i>		(brak)		(brak)			
Educatio	on areas and fields of sci	ence and art			ECTS distribution (number and %)		
Resp	onsible for subj	ect / lecturer:					
dr h	ab. Inż. Marek Fertscł	n. prof.nadzw.					
ema	il: marek.fertsch@ pu						
	061 665 3416 Iział Inżynierii Zarządz	ronio					
	Strzelecka 11, 60-965						
Prere	quisites in term	s of knowledge, skills and	social competencies				
1	Knowledge	Student has knowledge on produ	iction management				
•	lanemeage						
2	Skills	Student has skills in production management					
3	Social competencies	Student has social competences within production management					
Assumptions and objectives of the course:							
	• •	edge, skills, competences within d	esign of traditional and conten	npora	ry production units area		
	Study outoo	mag and reference to the	advactional results for	r o fi	ald of study		
Know	/ledge:	mes and reference to the	educational results for	a 11	eld of Study		
	-	interdependencies and relations w	ithin area of production manage	remer	nt and their connection to		
	cs - [[K2A_W02]]			gemei			
2. Stud	lent knows basic relati	ons between technical and econor	mic sphere typical for production	on ma	anagement - [[K2A_W04]]		
		s and definitions typical for product	• • • =				
	•	cess mapping idea and generally					
5. Student is familiar with IT systems applicable in production management area - [[K2A_W12]]							
 Student is able to identify and explain methods, tools and means applicable in production management area - [[K2A_W13]] 							
Skills							
1. Stud produc	lent is able to commur tion management area	nicate with proper means in profest a - [[K2A_U04]]	sional environment and other	enviro	onments connected with		
 Student is able to develop and present in Polish or in foreign language analysis of a given problem within production management area - [[K2A_U04]] 							
3. Student is able to benefit from self-learning - [[K2A_U05]]							
4. Student is able to define and solve problem integrating interdisciplinary knowledge from the disciplines within logistics - [[K2A_U10]]							
5. Student is able to assess potential of new solutions (technics and technologies) within logistics and connected areas - [[K2A_U12]]							
6. Student is able to identify areas for improvement within Logistics system - [[K2A_U16]]							

Social competencies:

1. Student is aware of responsibility for own work and ready to obey team work principles, including sharing responsibility for group tasks - [[K2A_K03]]

2. Student is able to identify interdependencies and cause-effect relations in striving for goals and prioritize tasks - [[K2A_K04]]

Assessment methods of study outcomes

Forming assessment

a) project ? discussion on solution, students developed in their project, b) answering questions discussed during lecture and referring to issues presented

Final assessment

project a) public presentation of project outcomes and discussion on solutions developed b) quality of project developed lecture: presentation of analysis of a problem defined by the coordinator, answering questions concerning subject content

Course description

Revision on typical methods and technics of production systems design applicable for designing classic (traditional) production systems, including balancing methods and classical classification of production units according to euro-american approach. Presentation of JIT based methods of production systems design, leand oriented design and agile manufacturing units design.

Basic bibliography:

Fertsch M., Pawlak N., Stachowiak A., Współczesne systemy produkcyjne, Wydawnictwo Politechniki Poznańskiej, 2011
 Golińska P., Tradycyjne i nowoczesne systemy produkcyjne, Wydawnictwo Politechniki Poznańskiej, 2011

Additional bibliography:

Result of average student's workload

Activity	Time (workin hours)
1. lectures	30
2. project	30
3. consultation	10
4. home work	5
Stud	ent's workload

Source of workload	hours	ECTS
Total workload	75	5
Contact hours	60	3
Practical activities	30	2