		STUDY MODULE D	ESCRIPTION FORM				
Name of the module/subject Cod					^{de} 11105411011117644		
Field of study Logistics - Part-time studies - Second-cycle			Profile of study (general academic, practical general academic	(general academic, practical)			
_	path/specialty	studies - decond-cycle	Subject offered in:		1 / 1 Course (compulsory, elective)		
LICCTIVE		porate Logistics	Polish		elective		
Cycle of		,	Form of study (full-time,part-time)	<u> </u>			
Second-cycle studies			part-	part-time			
No. of h	ours			No	o. of credits		
Lectur	e: 16 Classes	s: - Laboratory: -	Project/seminars:	16	5		
Status o	f the course in the study	program (Basic, major, other)	(university-wide, from another	field)			
		other	univ	ersity-	-wide		
Education areas and fields of science and art					CTS distribution (number d %)		
techn	ical sciences			5	100%		
Technical sciences					5 100%		
dr hab. Inż. Marek Fertsch, prof.nadzw. email: marek.fertsch@ put.poznan.pl tel. 061 665 3416 Wydział Inżynierii Zarządzania ul. Strzelecka 11, 60-965 Poznań Prerequisites in terms of knowledge, skills and social competencies:							
1	Knowledge	Student has knowledge on produ	uction management				
2	Skills	Student has skills in production management					
3	Social competencies	Student has social competences	s within production managemen	nt			
Assumptions and objectives of the course:							
Providing student with knowledge, skills, competences within design of traditional and contemporary production units area							
Study outcomes and reference to the educational results for a field of study							
Knowledge:							
1. Student is able to identify interdependencies and relations within area of production management and their connection to Logistics - [[K2A_W02]] 2. Student knows basic relations between technical and economic sphere typical for production management - [[K2A_W04]] 3. Student knows basic terms and definitions typical for production management - [[K2A_W09]]							
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4. Student is familiar with process mapping idea and generally process approach - [[K2A_W10]]							

- 5. Student is familiar with IT systems applicable in production management area [[K2A_W12]]
- 6. Student is able to identify and explain methods, tools and means applicable in production management area [[K2A_W13]]

Skills:

Faculty of Engineering Management

- 1. Student is able to communicate with proper means in professional environment and other environments connected with production management area [[K2A_U04]]
- 2. 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:

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

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. lectures	30
2. project	30
3. consultation	10
4. home work	5

Student's workload

Source of workload	hours	ECTS
Total workload	87	5
Contact hours	52	3
Practical activities	36	2