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		STUDY MODULE D	ES	CRIPTION FORM	1		
Name of the module/subject Process - Product Integration				Code 10111013410111178		<sup>de</sup> 11101341011117816	
Field of	study			Profile of study	1)	Year /Semester	
Logistics - Full-time studies - First-cycle studie			es	(general academic, practical)  s general academic		2/4	
_	path/specialty			Subject offered in:		Course (compulsory, elective)	
		•		Polish		elective	
Cycle of study:			For	Form of study (full-time,part-time)			
First-cycle studies				full-time			
No. of h	iours					No. of credits	
Lectu	re: 15 Classes	s: - Laboratory: -		Project/seminars:	15	2	
Status		program (Basic, major, other)	(	university-wide, from another			
		other		univ	ers	ity-wide	
Educati	on areas and fields of sci	ence and art				ECTS distribution (number and %)	
techr	technical sciences					2 100%	
Resp	onsible for subj	ect / lecturer:	Re	sponsible for subje	ect /	lecturer:	
dr h	ab. inż. Paweł Pawlev	vski		dr hab. inż. Paweł Pawlev	vski		
	ail: pawel.pawlewski@	put.poznan.pl		email: pawel.pawlewski@put.poznan.pl			
	tel. 61 6653413			tel. 61 6653413			
Wydział Inżynierii Zarządzania ul. Strzelecka 11 60-965 Poznań				Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań			
Prere	equisites in term	is of knowledge, skills and	d s	ocial competencies	:		
1	Knowledge	Basic knowledge of manufacturing	ufacturing, logistics, economics				
1	Kilowieuge						
2	Skills	Student has the ability to associate and interpret the phenomena occurring in the enterprise					
3	Social	Student is aware of the consequences of the decisions					
	competencies						
	•	jectives of the course:					
	. •	of production from the point of view					
- Show the need for integration between engineering and business  Study outcomes and reference to the educational results for a field of study							
Knov	vledge:	ines and reference to the	cu	ucational results to	ı u	ilcia oi staay	
		d agong of the integration process	ond	Inroduct [K1A W16]			
Can define the content and scope of the integration process and product - [K1A_W16]     Can point out the basic formulas applicable in the area of integration of product and process - [K1A_W14]							
3. Can explain in detail specific concepts for the integration of process and product - [K1A_W17]  3. Can explain in detail specific concepts for the integration of process and product - [K1A_W17]							
4. Has a basic knowledge of the life cycle of socio-technical systems in the context of the integration process and product -							
[K1A_W21]							
		the life cycle of industrial products	s -[l	K1A_W22]			
Skills	S:						

- 1. Can design a process analysis for the integration of product and process [K1A\_U05]
- 2. Can present with appropriate personal problem with the product lifecycle  $\,$  [K1A\_U02]
- 3. Able to prepare and present an oral presentation concerning the specific issues of logistics in Polish and foreign language [K1A\_U03]
- 4. Able to independently develop a given issue, which forms part of this item [K1A\_U05]
- 5. It can make a critical analysis of the phenomenon of falling within the integra process and product [ [K1A\_U13]

# Social competencies:

# **Faculty of Engineering Management**

- 1. Student is sensitive to the non-technical aspects and effects of engineering activities, including its impact on the environment, and the related responsibility for decisions [K1A\_K02]
- 2. Student is willing to cooperate and work in teams to resolve problems [K1A\_K03]
- 3. Able to plan and manage in an entrepreneurial [K1A\_K06]

# Assessment methods of study outcomes

-Assessment of the project, colloquia

### **Course description**

- manufacturing paradigms - mass production. production of

#### Basic bibliography:

- 1. Projektowanie produktu, Richard Morris, PWN, Warszawa, 2009
- 2. Nowoczesne wzornictwo od A do Z Nowoczesne wzornictwo od A do Z, Wydawnictwo Olesiejuk, 2010
- 3. Inżynieria zarządzania część 1, Ireneusz Durlik, Placet, 2007
- 4. The Global Manufacturing revolution, Yoram Koren, Wiley

#### Additional bibliography:

- 1. Prawdziwe historie nowych produktów, Robert J. Thomas, Prószyński i S-ka, 2001
- 2. Steve Jobs, Walter Isaacson, Insignis Media , 2011

# Result of average student's workload

Activity	Time (working hours)
1. Lectures	15
2. Project	15
3. Consultation	10
4. Literature studying	15

# Student's workload

Source of workload	hours	ECTS						
Total workload	55	2						
Contact hours	40	1						
Practical activities	15	1						