

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Process - Product Integration		Code 1011101441011117816
Field of study Logistics - Full-time studies - First-cycle studies	Profile of study (general academic, practical) (brak)	Year /Semester 2 / 4
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) elective
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 15 Classes: - Laboratory: - Project/seminars: 15		No. of credits 2
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art		ECTS distribution (number and %)
Responsible for subject / lecturer: dr hab. inż. Paweł Pawlewski email: pawel.pawlewski@put.poznan.pl tel. 61 6653413 Wydział Inżynierii Zarządzania ul. Strzelecka 11 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Basic knowledge of manufacturing, logistics, economics
2	Skills	Student has the ability to associate and interpret the phenomena occurring in the enterprise
3	Social competencies	Student is aware of the consequences of the decisions
Assumptions and objectives of the course: - Analysis of the paradigms of production from the point of view of technical and business - Show the need for integration between engineering and business		
Study outcomes and reference to the educational results for a field of study		
Knowledge: 1. Can define the content and scope of the integration process and product - [K1A_W16] 2. 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] 4. Has a basic knowledge of the life cycle of socio-technical systems in the context of the integration process and product - [K1A_W21] 5. Has a basic knowledge of the life cycle of industrial products - [K1A_W22]		
Skills: 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: 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 2010		
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)
Student's workload		
Source of workload	hours	ECTS
Total workload	60	2
Contact hours	15	0
Practical activities	15	0