

| STUDY MODULE DESCRIPTION FORM | | |
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| Name of the module/subject Process - Product Integration | | Code 1011104441011117816 |
| Field of study Logistics - Part-time studies - First-cycle | 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) part-time | |
| No. of hours Lecture: 8 Classes: - Laboratory: - Project/seminars: 8 | | 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 | | Responsible for subject / lecturer: dr hab. inż. Paweł Pawlewski email: pawel.pawlewski@put.poznan.pl tel. 61 6653413 Faculty of Engineering Management 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 |