| STUDY MODULE DESCRIPTION FORM | | | | | | | |
|---|---|--|---|------------------------------------|--|--|--|
| | the module/subject | | Code 1011105311011117659 | | | | |
| (-) 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) | | | |
| Chain of Delivery Logistics | | | Polish | elective | | | |
| Cycle of study: Form of study (full-time,part-time) | | | | | | | |
| | Second-cy | cle studies | part-time | | | | |
| No. of he | | | | No. of credits | | | |
| Lectur | Clabber | | i reject command. | 16 5 | | | |
| 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 %) | | | |
| | | | | | | | |
| Resp | onsible for subje | ect / lecturer: | | | | | |
| - | ab. Inż. Marek Fertsch | | | | | | |
| ema | il: marek.fertsch@ pu | • | | | | | |
| |)61 665 3416 Iział Inżynierii Zarządz | ania | | | | | |
| | trzelecka 11, 60-965 | | | | | | |
| Prere | quisites in term | s of knowledge, skills and | d social competencies: | | | | |
| 1 | Knowledge | Student has general knowledge | in logistics | | | | |
| 1 | Kilowieuge | | | | | | |
| 2 | Skills | Student has general skills in logistics | | | | | |
| 3 | Social | Student has social skills in logistics | | | | | |
| competencies Assumptions and objectives of the course: | | | | | | | |
| Assumptions and objectives of the course: Providing knolwedge, skills and social competences connected woth analysis of logistics support | | | | | | | |
| | | | | | | | |
| Study outcomes and reference to the educational results for a field of study | | | | | | | |
| | vledge: | | | | | | |
| 1. Stud [[K2A_\ | | nterdependencies and relations w | ithin area of Logistics suport a | nd their connection to Logistics - | | | |
| | | ons between technical and econo | | support - [[K2A_W04]] | | | |
| | | s and definitions typical for Logisti cess mapping idea and generally | | 01 | | | |
| | | | | [0]] | | | |
| Student is familiar with IT systems applicable in Logistics support area - [[K2A_W12]] Student is able to identify and explain methods, tools and means applicable in Logistics support area - [[K2A_W13]] | | | | | | | |
| Skills: | | | | | | | |
| | ent is able to commur cs support area - [[K2 | nicate with proper means in profes 2A_U02]] | sional environment and other e | environments connected with | | | |
| Student is able to develop and present in Polish or in foreign language analysis of a given problem within Logistics support 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 dusring lecture and refering 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

Logistics support planning. Organization of material necessary for realization of Logistics support. Providing equipment to support and control processes. Packing, storing, transporting material necessary for logistics support.

Issues concerning training of logistics support staff, providing infrastructure necessary for logistics support, collecting and distributing data necessary for logistics support. Providing IT software necessary for logistics support.

Analysis of logistics support, definition of the problem, identification of available alternatives, selection of assessment criteria, selection of methods and technics of alternatives analysis, collecting and using data, analysis of results, analysis of sensitivity, risk analysis.

Teaching methods: conventional specialist lecture, team project, work with literature

Basic bibliography:

1. Blanchard B., Logistics engineering and management, Pearson Education International, Upper Saddle River, New Yersey

2. Blanchard B., Logistics engineering and management, Pearson Education International, Upper Saddle River, New Yersey

3. Fertsch M., Elementy inżynierii logistycznej (rozdz. 1 i2), Wydawnictwo Instytutu Logistyki i Magazynowania, Poznań, 2017

4. Don Taylor G., Introduction to logistics engineering, CRC Pres, Taylor & Francis Group, London, New York, 2009

5. Fertsch M., (2003), Miejsce logistyki we współczesnym zarządzaniu produkcją, [w:] Fertsch M., Logistyka produkcji, Instytut Logistyki i Magazynowania, Poznań 2003, (ISBN 83-87344- 36-2)

Additional bibliography:

1. Fertsch M., (2008), Rekonfigurowalne systemy logistyczne ? nowy obszar badań i zastosowań praktycznych, [w:] Foltynowicz Z., Jasiczak J., Szyszka G. (red.), Towaroznawstwo ? opakowania ? logistyka, Wydawnictwo Akademii Ekonomicznej, Poznań, 2008

2. Pawlewski P., Fertsch M., (2010), Modeling and Simulation Method to Find and Eliminate Bottlenecks in Production Logistics Systems, Proceedings of The 2010 Winter Simulation Conference; B. Johansson, S. Jain, J. Montoya-Torres, J. Hugan, and E. Yücesan, (eds).

Result of average student's workload

| Activity | Time (working hours) |
|-------------------|-------------------------|
| 1. lectures | 30 |
| 2. project | 30 |
| 3. home work | 15 |
| 4. work in groups | 15 |
| 5. consultations | 35 |

Student's workload

| Source of workload | hours | ECTS |
|----------------------|-------|------|
| Total workload | 125 | 5 |
| Contact hours | 57 | 3 |
| Practical activities | 46 | 2 |