

| <b>STUDY MODULE DESCRIPTION FORM</b>   |   |   |
|--|---|---|
| Name of the module/subject<br><b>Logistics</b>   |   | Code<br><b>1011101341011110434</b>  |
| Field of study<br><b>Engineering Management - Full-time studies -</b>  | Profile of study (general academic, practical)<br><b>general academic</b> | Year /Semester<br><b>2 / 4</b>  |
| Elective path/specialty<br><b>-</b>  | Subject offered in:<br><b>Polish</b>                                      | Course (compulsory, elective)<br><b>elective</b>  |
| Cycle of study:<br><b>First-cycle studies</b>  | Form of study (full-time,part-time)<br><b>full-time</b>                   |   |
| No. of hours<br>Lecture: <b>15</b> Classes: <b>15</b> Laboratory: <b>-</b> Project/seminars: <b>-</b>  |   | No. of credits<br><b>4</b>  |
| Status of the course in the study program (Basic, major, other)<br><b>other</b>  |   | (university-wide, from another field)<br><b>university-wide</b>   |
| Education areas and fields of science and art<br><b>technical sciences</b><br><b>Technical sciences</b>  |   | ECTS distribution (number and %)<br><b>4 100%</b><br><b>4 100%</b>  |
| <b>Responsible for subject / lecturer:</b><br><br>dr inż. Karolina Werner-Lewandowska<br>email: karolina.werner@put.poznan.pl<br>tel. 616653414<br>Wydział Inżynierii Zarządzania<br>ul. Strzelecka 11, 60-965 Poznań  |   |   |
| <b>Prerequisites in terms of knowledge, skills and social competencies:</b>  |   |   |
| 1  | <b>Knowledge</b>  | Student has basic knowledge of management and organization of processes                                     |
| 2  | <b>Skills</b>   | Student can identify the flow of materials in the company   |
| 3  | <b>Social competencies</b>  | The student is able to associate socio-economic phenomena with the conditions of functioning of the company |
| <b>Assumptions and objectives of the course:</b><br>To familiarize students with logistics processes and how to organize material flow, selected problems and solutions used in the field of logistics   |   |   |
| <b>Study outcomes and reference to the educational results for a field of study</b>  |   |   |
| <b>Knowledge:</b>  |   |   |
| 1. Student has basic knowledge about the life cycle of machinery and technical equipment used in logistics - [K1A_W21]<br>2. Student knows the basic methods, techniques, tools, which utilize the solving of simple engineering tasks in the scope of construction and operation of machines and equipment used in logistics - [K1A_W24 ]   |   |   |
| <b>Skills:</b>   |   |   |
| 1. Student Can correctly use normative systems and selected norms and rules (legal, professional, moral) in order to solve a particular task in the field of economics and disciplines of management science in the area of logistics - [K1A_U05]<br>2. Student Can identify project tasks and solve simple design tasks in the field of construction and operation of machines used to carry out logistics processes in an enterprise - [K1A_U17]<br>3. Student Can design the design and technology of simple parts and subassemblies used to carry out logistics processes in an enterprise and to design the organization of first level complexity production units in the area of the implementation of logistics processes supporting the production process. - [K1A_U19] |   |   |
| <b>Social competencies:</b>  |   |   |
| 1. The student understands and is aware of the importance of non-technical aspects and effects of the engineering activities, including its environmental impact, and the resulting responsibility for the decisions made in the field of logistics. - [K1A_K08]<br>2. The student is aware that the creation of products that meet the needs of users requires a system approach in the area of logistics, including technical, economic, marketing, legal, organizational and financial issues. - [K1A_K09]  |   |   |

| <b>Assessment methods of study outcomes</b>   |                      |      |
|---|----------------------|------|
| 815/5000<br>lectures:<br>1. Formative (short) case study-related short stories, addressed in the topic of the lecture, solved in groups of 2-3<br>2. Summative assessment: includes the results of the final one-time written test (14 weeks of semester) in the material discussed in the lectures and takes into account formative assessments. The summary score is the average of the test scores and case studies.<br>exercises:<br>1. Evaluating short-form case studies, accounting tasks in the field of the problem, solving in groups of 2-3<br>2. Summative assessment: includes the final test (14 weeks of semester) in the material discussed in the exercise and includes the formative assessment. The summary score is the mean of the scores from the colloquium and partial tasks. |                      |      |
| <b>Course description</b>   |                      |      |
| 446/5000<br>Functional and material aspects of logistics. Characteristics of logistic processes. Requirements and problems in the discussed logistics processes. Solutions used in logistics today. The concept of integration of material flow, supply chains and global logistics.<br>Lecture: information lecture in combination with conversational, case method<br>Exercises: exercise method, oxford method, round table, games, case method  |                      |      |
| <b>Basic bibliography:</b>  |                      |      |
| 1. Kisperska- Moroń, Krzyżaniak str., Logistyka, ILIM, Poznań, 2009<br>2. Blaik P., Logistyka. Koncepcja zintegrowanego zarządzania, PWE, Warszawa, 2010<br>3. Skowronek Cz., Sarjusz- Wolski Z., Logistyka w przedsiębiorstwie, PWE, Warszawa, 2012<br>4. Lus T., Rokicki W., Śliwka R., Studia przypadków. Rzeczywiste problemy z polskich firm rozwiązane na podstawie prawdziwych danych, PWE, Warszawa, 2015   |                      |      |
| <b>Additional bibliography:</b>   |                      |      |
| 1. Fertsch M. (red.) Słownik terminologii logistycznej. Wydanie2, ILIM, Poznań, 2016<br>2. Blaik P., Bruska A., Kauf S., Matwiejczyk R., Logistyka w systemie zarządzania przedsiębiorstwem, PWE, Warszawa, 2013<br>3. Kauf S., Sadowski A., Szoltysek J., Twaróg S., Płaczek E., Vademecum logistyki, Difin, Warszawa, 2016  |                      |      |
| <b>Result of average student's workload</b>   |                      |      |
| Activity  | Time (working hours) |      |
| 1. Participation in lectures  | 15                   |      |
| 2. Participate in exercises   | 15                   |      |
| 3. Preparation for exercises  | 10                   |      |
| 4. Preparing to pass the exercises  | 10                   |      |
| 5. Consultations  | 20                   |      |
| 6. Preparing to pass lectures   | 15                   |      |
| 7. Credit   | 2                    |      |
| <b>Student's workload</b>   |                      |      |
| Source of workload  | hours                | ECTS |
| Total workload  | 102                  | 4    |
| Contact hours   | 52                   | 2    |
| Practical activities  | 15                   | 0    |