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issues (inventory management, distribution logistics, production and supply logistics, operation logistics, environmentalism) and supply chain management - [K1A_U02]								
3. Is able to independently develop a given problem within the studied subject - [K1A_U05]								

Social competencies:

1. Is aware of the need to learn throughout life; to inspire and organize the learning process of other people within the issues covered in the study subject (T1A_K01) - [K1A_K01]

2. Is able to correctly identify and resolve dilemmas related to the profession of logistics (T1A_K05) - [K1A_K05]

3. He knows typical engineering technologies in the field of logistics and its specific issues (InzA_W05) - [KInzA_W05]

Assessment methods of study outcomes

Forming rating

a) exercises: based on the implementation of exercises, including the calculation of sales forecasts, the size of inventory, costs in procurement systems, suppliers' evaluation, scheduling of supplies performed during classes, presentation of their level of advancement and obtained results

b) lecture: based on active participation in classes, answers to questions about the material discussed on a regular basis Summary rating

a) exercises: colloquium covering the scope of exercises carried out during classes during the semester

b) lecture: oral exam, covering the scope of issues discussed during the lecture and formulated in the form of a list of questions made available to students in didactic materials

Course description

Genesis, functional and material range of logistics. Characteristics of logistics processes. Requirements and problems within the discussed logistics processes. Solutions used today in logistics. The concept of integration of material flow, supply chains and global logistics.

Teaching methods:

lecture: informative lecture, limited problem lecture

exercises: exercise method (subject-oriented exercises), in a limited scope a workshop method

Basic bibliography:

1. Logistyka. Teoria i praktyka, praca zbiorowa, Difin 2011

2. Skowronek C., Sarjusz-Wolski Z., Logistyka w przedsiębiorstwie, PWE 2008

3. C.H.Pfohl, Systemy logistyczne, ILIM 2001

4. C.H,Pfohl, Zarządzanie logistyką, ILIM 2002

Additional bibliography:

1. Kozłowski R., Sikorski A., Podstawowe zagadneinia współczesnej logistyki, Oficyna Wydawnicza 2009

2. Fertsch M., Słowni terminologii logistycznej, ILIM 2016

3. Logistyka i zarządzanie produkcją ? narzędzia, techniki, metody, modele, systemy, Fertsch M., Grzybowska K., Stachowiak A. [red.], Politechnika Poznańska, Poznań 2008

Result of average student's workload

Activity	Time (working hours)
1. Attending lectures	30
2. Attending seminars	15
3. Studying for classes	25
4. Studying for final test on classes	25
5. Studying for test on lectures	30
6. Consultation	25

Student's workload

Source of workload	hours	ECTS
Total workload	150	6
Contact hours	70	3
Practical activities	15	1