POZNAN UNIVERSITY OF TECHNOLOGY

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

COURSE DESCRIPTION CARD - SYLLABUS

Course name

Design of internal transport systems [S1Log2>PSTW]

Course

Field of study Year/Semester

Logistics 4/7

Area of study (specialization) Profile of study

general academic

Level of study Course offered in

first-cycle Polish

Form of study Requirements

full-time elective

Number of hours

Lecture Laboratory classes Other 0

15

Tutorials Projects/seminars

0 15

Number of credit points

2.00

Coordinators Lecturers

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Prerequisites

Bases of the mechanical engineering and transport equipments Fundamentals of the use of machines Bases of the organization of transport systems Ability of using the knowledge acquired earlier Ability of the independent thinking and the constructive criticism of solutions Ability of having a factual discussion and the teamwork Understanding of the need of work in a team. Ability of putting own substantial contribution into the work of the entire team.

Course objective

Acquainting students with the process of designing the close transport systems. Mastering the ability of designing close transport systems.

Course-related learning outcomes

Knowledge:

- 1. The student has knowledge on the substance of the contextual sciences in reference to the close transport systems [P6S WG 01]
- 2. The student has a wide knowledge on the role of man in the formation of the organizational culture and ethics in the process of design and management of interial transport systems [P6S WK 06]

Skills:

- 1. The student is able to use the obtained theoretical knowledge for describing and analyzing causes and results of course of processes and social and technical phenomena, he is able to formulate own opinions of interial transport systems [P6S UW 07]
- 2. The student is able to interpret and explain correctly technical, political, legal, economical phenomena, as well as mutual relations between these phenomena [P6S UO 01]

Social competences:

- 1. Student can notice causally consecutive relations in the realization of established purposes and set the ranking of importance of alternative or competitive tasks [P6S KK 01]
- 2. Student is aware of the interdisciplinary character of the knowledge from the range of environmental protection engineering; he has the skill to solve composite environmental problems of the organization and forms interdisciplinary teams [P6S KR 02]
- 3. is willing to cooperate and work in a team on solving problems from the area of the studied subject [P6S KO 01]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

-forming assessment:

project: on basis of the evaluation of the realized following stages of the project and the knowledge of topics necessary for its realization. The work within the project team is important

lectures: basing on questions asked during the lecture, which refer to previous lectures on the subject.

- final assessment:

project: public presentation of the project (in front of the entire group) and discussion lectures: final conversation in form of discussion: 2-3 students discuss with the examining person topics from lectures. The accession to the exam is based on positive assessment of the project. The exam is passed when the student gives correct answers for the majority of questions

Programme content

The course of lectures starts with the description of the process of storing and operation consisting in it; types of close transport, sorts of close transport equipment and rules for their selection. Next, the process of designing a close transport system will be shown. Also possibilities of using simulations for designing systems of the close transport will be presented.

Course topics

none

Teaching methods

-forming assessment:

project: on basis of the evaluation of the realized following stages of the project and the knowledge of topics necessary for its realization. The work within the project team is important lectures: conversation lecture, basing on questions asked during the lecture, which refer to previous lectures on the subject.

- final assessment:

project: public presentation of the project (in front of the entire group) and discussion lectures: final conversation in form of discussion: 2-3 students discuss with the examining person topics from lectures. The accession to the final conversation is based on positive assessment of the project. The exam is passed when the student gives correct answers for the majority of questions

Bibliography

Basic:

- 1. Korzeń Z., Logistyczne systemy transportu bliskiego i magazynowania, t. 1 i 2, Biblioteka logistyka, Wydawnictwo ILiM. Poznań. 1998.
- 2. Pfohl H. Ch., Systemy logistyczne, Wydawnictwo ILiM, Poznań, 1998.
- 3. Fechner I., Centra logistyczne cel-realizacja-przyszłość, Wydawnictwo ILiM, Poznań, 2004.

4. Lubiński P., Projektowanie systemów transportu wewnętrznego, WPP, Poznań, 2013.

Additional:

- 1. Korzeniowski A., Szyszka G., Skrzypek M., Opakowania w systemach logistycznych , Wydawnictwo ILiM, Poznań, 2001.
- 2. Mendyk E., Ekonomika i organizacja transportu, WSL, Poznań, 2002.
- 3. Głowacka-Fertsch D., Fertsch M., Zarządzanie produkcją, WSL, Poznań, 2004.
- 4. Polański A., Mechanizacja wewnętrznego transportu, WNT, Warszawa, 1963.
- 5. Katalogi i czasopisma branżowe

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,00
Classes requiring direct contact with the teacher	16	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	34	1,00