# **Faculty of Engineering Management**

STUDY MODULE DESCRIPTION FORM						
Name of the module/subject  Design of internal transport systems		Code 1011104371011115178				
Field of study  Logistics - Part-time studies - First-cycle	Profile of study (general academic, practical) general academic	Year /Semester 4 / 7				
Elective path/specialty	Subject offered in: Polish					
Cycle of study:	of study: Form of study (full-time,part-time)					
First-cycle studies	part-time					
No. of hours		No. of credits				
Lecture: 14 Classes: - Laboratory: -	Project/seminars:	2 3				
Status of the course in the study program (Basic, major, other)	eld)					
other univer		rsity-wide				
Education areas and fields of science and art  technical sciences		ECTS distribution (number and %) 3 100%				
tecimical sciences		3 100 /6				

## Responsible for subject / lecturer:

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## Prerequisites in terms of knowledge, skills and social competencies:

_	Knowledge	Bases of the mechanical engineering and transport equipments
1		Fundamentals of the use of machines
		Bases of the organization of transport systems
2	Skills	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
3	Social Understanding of the need of work in a team.	
	competencies	Ability of putting own substantial contribution into the work of the entire team.

## Assumptions and objectives of the course:

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

Mastering the ability of designing close transport systems.

#### Study outcomes and reference to the educational results for a field of study

# Knowledge:

- 1. The student has knowledge on the substance of the contextual sciences in reference to the close transport systems [K2A\_W04, K2A\_W08]
- 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 technical systems [K2A\_W05, K2A\_W09]

#### 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 and choose critical data and methods [K2A\_U02, K2A\_U06]
- 2. The student is able to interpret and explain correctly technical, political, legal, economical phenomena, as well as mutual relations between these phenomena [K2A\_U03]

## Social competencies:

- 1. Student can notice causally consecutive relations in the realization of established purposes and set the ranking of importance of alternative or competitive tasks [K2A\_K03]
- 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 [K2A\_K06, K2A\_K02]

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## Assessment methods of study outcomes

#### Forming assessment:

- Lectures ? on basis of questions asked during the lecture, which refer to previous lectures on the subject
- Project classes on basis of the evaluation of the current progress in realization of obtained tasks

#### Final assessment

- -Lectures final test
- Project classes on basis of a realized project

#### Course description

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.

Teaching methods: informative lecture, project method

#### Basic bibliography:

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

#### Additional bibliography:

- 1. Opakowania w systemach logistycznych , Korzeniowski A., Szyszka G., Skrzypek M. , ILiM, Poznań, 2001
- 2. Ekonomika i organizacja transportu , Mendyk E. , WSL, Poznań, 2002
- 3. Zarządzanie produkcją, Głowacka-Fertsch D., Fertsch M., WSL, Poznań, 2004

#### Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	14
2. Participation in project classes	12
3. Preparation for the project	10
4. Preparation for the project assessment	10
5. Preparation for the final assessment	10
6. Project consultations	20
7. Exam	2

## Student's workload

Source of workload	hours	ECTS
Total workload	78	3
Contact hours	48	2
Practical activities	12	1