		STUDY MODULE DES	SCRIPTION FORM		
	f the module/subject gn of internal tra	insport systems	Code 1011101471011115178		
Field of study			Profile of study (general academic, practical	Year /Semester	
Logi	stics - Full-time	studies - First-cycle studies		4/7	
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) elective	
Cycle of study:			orm of study (full-time,part-time))	
First-cycle studies			full-time		
No. of hours				No. of credits	
Lecture: 15 Classes: - Laboratory: -			Project/seminars:	15 3	
Status o	of the course in the study	program (Basic, major, other)	(university-wide, from another	field)	
(brak)			(brak)		
	on areas and fields of sci			ECTS distribution (number and %)	
Responsible for subject / lecturer: dr inż. Piotr Lubiński email: piotr.lubinski@put.poznan.pl tel. +48 61 665 3401 Wydział Inżynierii Zarządzania ul. Strzelecka 11 60-965 Poznań					
Prere	equisites in term	s of knowledge, skills and	social competencies	:	
4	Knowledge	Bases of the mechanical engineering and transport equipments			
1	Knowledge	Fundamentals of the use of machines			
		Bases of the organization of transp			
2	Skills	Ability of using the knowledge acqu		m of a dutions	
		Ability of the independent thinking and the constructive criticism of solutions Ability of having a factual discussion and the teamwork			
0	Social	Understanding of the need of work			
3	competencies	Ability of putting own substantial contribution into the work of the entire team.			
Assu	mptions and obj	ectives of the course:			
Acquai	nting students with the	e process of designing the close tran	sport systems.		
Master	ing the ability of desig	ning close transport systems.			
	Study outco	mes and reference to the e	ducational results for	r a field of study	
Know	vledge:				
[K2A_\	N04, K2A_W08]	e on the substance of the contextua			
proces	s of design and mana	owledge on the role of man in the fo gement of technical systems - [K2A		al culture and ethics in the	
Skills	;				
proces		the obtained theoretical knowledge schnical phenomena, he is able to form			
		rpret and explain correctly technical, nomena - [K2A_U03]	political, legal, economical	phenomena, as well as mutual	
Socia	al competencies:				
		y consecutive relations in the realiza competitive tasks - [K2A_K03]	tion of established purpose	s and set the ranking of	
2. Stuc he has	lent is aware of the int	erdisciplinary character of the knowl posite environmental problems of the			

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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.

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:

Practical activities

- 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		15
2. Participation in project classes	15	
3. Preparation for the project	10	
4. Preparation for the project assessment	10	
5. Preparation for the final assessment	10	
6. Project consultations	15	
7. Exam		2
Student's wo	orkload	
Source of workload	hours	ECTS
Total workload	77	3
Contact hours	47	2