## Poznan University of Technology Faculty of Transport Engineering

		STUDY MODULE D	ESCRIPTION FORM			
Name of the module/subject  Storage of materials and fuels			Code 1010634371010616004			
Field of study  Transport			Profile of study (general academic, practical) general academic	4/7		
Elective path/specialty  Engineering of Pipeline Transport			Subject offered in:  Polish	Course (compulsory, elective) <b>obligatory</b>		
Cycle of		<u>5</u>	Form of study (full-time,part-time)			
	First-cyc	cle studies	part-time			
No. of h	ours			No. of credits		
Lectur	e: 9 Classes	s: - Laboratory: -	Project/seminars:	- 1		
Status o		program (Basic, major, other)	(university-wide, from another	•		
F-141		other	unive	ersity-wide		
	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
techr	nical sciences			1 100%		
	Technical scie	ences		1 100%		
Responsible for subject / lecturer:  dr inż. Łukasz Wojciechowski email: lukasz.wojciechowski@put.poznan.pl tel. 616652376						
	szyny Robocze i Trans Piotrowo 3, 60-965 Po:					
	,	s of knowledge, skills an	d social competencies:			
1	Knowledge	Knowledge of issues from the strength of materials, the fundamentals of machine construction, metal science and logistics of transport, properties and properties of materials and fuels [PRK4]				
2	Skills	Gathering knowledge from cogn	nition and analysis of various application cases [PRK4]			
3	Social competencies	General - technical knowledge of	of storage needs. [PRK4]			
Assumptions and objectives of the course: -Getting to know the transport and storage of materials and fuels						
	Study outco	mes and reference to the	educational results for	a field of study		
Know	/ledge:					
		n knowledge of physics useful for lems - [T1A_W02 [P6S_WG]]	formulating and solving selecte	d technical tasks, in particular for		
	vs the basic technique - [T1A_W07 [P6S_W0	es, methods and tools used in the G]]	process of solving transport ta	sks, mainly of an engineering		
Skills	<b>3:</b>					
approp		on from various sources, including n, make their interpretation and cri ]]				
Socia	al competencies:					
1. understands that in technology, knowledge and skills quickly become obsolete - [T1A_K01 [P6S_KK]]						
reason		e of knowledge in solving engineer ansport systems that led to seriou				

## **Faculty of Transport Engineering**

## **Course description**

Types and requirements of shredded materials stores. Classification and technical and economic characteristics of cargo

devices for ground materials. Warehouse functions and role of warehouse in production and distribution. Organization of loading works in stations, cargo bases and reloading points. Processes of material flow, fuel and information. Safety of filling and emptying warehouses and protection in the storage process. Intra-factory pneumatic and hydraulic transport of materials and fuels				
Basic bibliography:				
Additional bibliography:				
Result of average stud	ent's workload			
Activity		Time (working hours)		
Participation for the lectures		15		
2. Consultations		3		
3. Preparation for the exam		6		
4. Participate in exam		4		
Student's wor	kload			
Source of workload	hours	ECTS		
Total workload	28	1		

28

0

1

0

Total workload				
Contact hours				
Practical activities				