STUDY MODULE DESCRIPTION FORM						
Name of the module/subject Storage of materials and fuels			Code 1010631371010616004			
Field of study Transport			Profile of study (general academic, practical) (brak)	Year /Semester		
Elective path/specialty Engineering of Pipeline Transport			Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle of	study:		Form of study (full-time,part-time)			
First-cycle studies			full-time			
No. of h	ours			No. of credits		
Lectur	e: 1 Classes	E Laboratory: -	Project/seminars:	- 1		
Status o	ield)					
		(brak)				
Educatio	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
Mas ul. F	Pioto52376 zyny Robocze i Trans Piotrowo 3, 60-965 Poz equisites in term	port znań s of knowledge, skills an Knowledge of issues from the st	d social competencies:	nentals of machine construction,		
1	Knowledge	metal science and logistics of tra	of transport, properties and properties of materials and fuels			
2	Skills					
3	Social competencies	General - technical knowledge of storage needs.				
Assumptions and objectives of the course:						
-Gettin	g to know the transpo	rt and storage of materials and fue	els			
	Study outco	mes and reference to the	educational results for	a field of study		
Know	/ledge:					
1. Theo	pretical and practical k	nowledge of the issues of storage	e and exchange of resources, tr	ansport issues - [K1A_W08]		
2. knov of inver	vledge of logistics, the ntories and finished pr	importance of logistics in the sup oducts, the importance of logistic	pply, production and sales phas s in transport, - [K1A_W09]	es, models for shaping the level		
Skills						
1. Acqu analytic	uisition of information t cal work in Excel, the	from literature, the Internet, datab ability to analyze and reason - [K	ases and other sources, in Poli 1A_U01]	sh and foreign languages,		
Socia	I competencies:	· · · ·				
1. Unde [K1A_k	erstanding the need fo	or continuous learning and the nee	ed to acquire new knowledge fo	r professional development -		
2. understands the non-technical aspects and effects of the transport engineer's operation and its environmental impact and responsibility for the decisions made, the consequences of their own actions - [K1A_K02]						
3. Iden enviror	tifying and resolving d iment - [K1A _K06]	ilemmas related to the profession	, among others. problems on th	ne technical level - the		
		Assessment metho	ds of study outcomes			

exam

http://www.put.poznan.pl/

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 student's workload

Activity	Time (working hours)				
1. Participation for the lectures	15				
2. Consultations	3				
3. Preparation for the exam	6				
4. Participate in exam	4				
Student's workload					
Source of workload	hours	ECTS			
Total workload	28	1			
Contact hours	28	1			
Practical activities	0	0			