# **Faculty of Engineering Management**

		STUDY MODULE D	ES	CRIPTION FORM			
Name (	of the module/subject			С	ode 011101421011126776		
Field of study				Profile of study	Year /Semester		
Logistics - Full-time studies - First-cycle studi				(general academic, practical) (brak)	1/2		
Elective path/specialty				Subject offered in: Polish	Course (compulsory, elective) <b>elective</b>		
Cycle of study:			For	Form of study (full-time,part-time)			
First-cycle studies				full-time			
No. of h	nours				No. of credits		
Lectu	re: 15 Classe:	s: - Laboratory: 15	5	Project/seminars: -	3		
Status	of the course in the study	program (Basic, major, other)	(	(university-wide, from another fiel	d)		
		(brak)		(b	rak)		
Educati	on areas and fields of sci	ence and art			ECTS distribution (number and %)		
ema tel. Fac	Responsible for subject / lecturer:  dr hab. inż. Józef Gruszka, prof. nadzw. email: jozef.gruszka@put.poznan.pl tel. 6653408 Faculty of Engineering Management ul. Strzelecka 11 60-965 Poznań						
Prere	equisites in term	s of knowledge, skills an	d s	ocial competencies:			
1	Knowledge	Basic knowledge of tribology. Indispensable information within technology and machine parts					
2	Skills	The ability to acquire knowledge					
3	Social competencies	The ability to work in a group					
Assu	mptions and obj	ectives of the course:					
their u drawin mainte	se and handling. Keep g, technology and ma	amiliarize the students with the moing the operating processes, taking terials science, acquiring the skills of the reliability of the diagnosis. De	ng in	to account the PN. On the basecure the process of machin	sis of information from the ery and equipment		
	Study outco	mes and reference to the	ed	ucational results for a	field of study		
Knov	vledge:						
1 Has	a hasic knowledge of	engineering graphics; design teg	chno	logy the construction and on	eration of machinery -		

- of: engineering graphics; design, technology, the construction and operation of machi [K1A\_W05]
- 2. Has a basic knowledge of: mechanics and machine-building industry as well as the strength of materials [K1A\_W07]

### Skills:

- 1. Is able to independently develop the problem that exists within the studied subject [K1A\_U05]
- 2. Can make use of analytical, experimental and simulation method which falls within the scope of this area, can solve the project problem in the area of logistics and its detailed concepts (inventory management, logistics, distribution logistics and supply, logistics, ecologistics) and supply chain management - [K1A\_U09]

## Social competencies:

- 1. Is aware of the need for lifelong learning; inspiring and organizing the learning process of other persons within the framework of the studied subject areas - [K1A\_K01]
- 2. Is willing to work together and work in a group on the resolution in the framework of the studied subject [K1A\_K03]

Assessment methods of study outcomes	_
Assessment exercises and test or exam.	

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## **Course description**

The program of the subject includes the following subject areas: the genesis of learning about the exploitation, the existence of a technical object, theories of exploitation. Rules for the exploitation of equipment. Use of the devices. Elements of tribology, friction, wear, lubrication, the top layer. Basic issues associated with reliability, quality and durability. Diagnostic machines. Types of diagnostic tests. Maintenance of machinery and equipment related to logistics, maintenance of means of transport and storage devices.

#### Classes

Technological process of repair of machinery. Disassembly. Repairs. Review, regeneration, machine parts. Regeneration methods of machine parts and their repair. Installation of machine parts. Methods of maintaining and securing the moving machinery.

## Basic bibliography:

# Additional bibliography:

## Result of average student's workload

Activity	Time (working hours)
1. lecture	15
2. laboratory	15
3. preparation for laboratory	20
4. preparation for an exam	30

### Student's workload

Source of workload	hours	ECTS
Total workload	80	3
Contact hours	30	2
Practical activities	15	1