STUDY MODULE DESCRIPTION FORM

Name of the module/subject		Code
Technological machines		**1011105341011122395**
Field of study	Profile of study (general academic, practical)	Year /Semester
Engineering Management - Part-time studies -	**(brak)**	**2 / 4**
Elective path/specialty	Subject offered in:	Course (compulsory, elective)
-	**Polish**	**elective**
Cycle of study:	Form of study (full-time,part-time)	
First-cycle studies	**part-time**	
No. of hours		No. of credits
Lecture: **14** Classes: **10** Laboratory: **-** Project/seminars: **-**		**4**
Status of the course in the study program (Basic, major, other)	(university-wide, from another field)	
(brak)	**(brak)**	
Education areas and fields of science and art		ECTS distribution (number and %)

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

Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	Basic knowledge of technology
2	**Skills**	The ability to acquire knowledge
3	**Social competencies**	The ability to work in a group

Assumptions and objectives of the course:

The aim of the subject is to familiarize the students with the most basic types of machines

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

Knowledge:

1. Has a basic knowledge of: engineering graphics; design, technology, the construction and operation of machinery - [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.

Course description

General mechanical engineering: selected topics from the theory of mechanisms, high strength friction grip machines, engines, working elements in the mechanisms and machines: pneumatic and hydraulic, vibrators
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