Wydział Budowy Maszyn i Zarządzania

	Study outcomes and reference to the educational
Knov	wledge:
proces	n: characterize the phases of existence of technical objects; define the case and its components; characterize the methods of computer-aided desses; select data for the design of the technological process [K1A_W6
	ble to: explain the basic concepts in the field of technological equipmen characterize the basic factors of technological and operational quality.
Skills	s:
	ble to: choose a blank to produce the indicated machine part; specify mechnological operation [K1A_U05]
	can: develop a technological process for selected part classes; give the plogical operation [K1A_U09]
Soci	al competencies:
1. He [K1A_	can work in a group; is willing to cooperate and work in a group to solve K03]
2. Is a	ware of the need for lifelong learning and the role of machine technolog
	Assessment methods of study

STUDY MODULE DE	SCRIPTION FORM		
Name of the module/subject Machine technology	Code 1011104331010222916		
Field of study	Profile of study (general academic, practical)	Year /Semester	
Logistics - Part-time studies - First-cycle	(brak)	2/3	
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: 12 Classes: - Laboratory: 10	Project/seminars:	- 3	
Status of the course in the study program (Basic, major, other)	(university-wide, from another fi	eld)	
(brak)	(brak)		
Education areas and fields of science and art		ECTS distribution (number and %)	
Responsible for subject / lecturer:			
prof. dr hab. inż. Stanisław Legutko email: stanislaw.legutko@put.poznan.pl tel. 616652577			

ul. Piotrowo 3, 60-965 Poznań Prerequisites in terms of knowledge, skills and social competencies:

1	Knowledge	Basic knowledge in the field of materials science, machine construction, manufacturing techniques.
2	Skills	The student has the ability to think logically, use information obtained from literature and the Internet.
3	Social competencies	The student understands the need to learn and acquire new knowledge.

for the production of machine parts and

esults for a field of study

- cepts of the production process, technological n and implementation of technological
- characterize the factors describing the top 1A_W07]
- hining allowances; specify the time standard
- ncept of technological instrumentation for a
- oblems within the studied subject. -
- n the life cycle of the machine. [K1A_K01]

utcomes

Faculty of Engineering Management

Forming rating

- a) in the field of the laboratory: based on the current progress of the exercise
- b) in the field of lectures: too large lecture group and limited time prevent any knowledge checking procedure

Assessment summary:

Lecture: Exam based on a written test consisting of 4 questions rated on a scale from 0 to 1. Credit for a minimum of 2.4 points.

Laboratory: Assessment based on oral or written answer in the scope of the content of each laboratory exercise, a report on each laboratory exercise as indicated by the laboratory conductor. All exercises must be completed in order to pass the laboratories (positive assessment of the answer and report).

Course description

Lecture:

General introduction to machine technology. Phases of the existence of a technical object. The essence of machine technology. New trends in machine technology. Production process. Technological process. Technological documentation. Output data for the design of the technological process. Semis. Technical working time standard. Machining bases. Allowances. Machining accuracy, errors. Product quality. The surface layer and its shaping factors. Technological equipment. Costs. Technological construction. Assembly. Designing technological processes of typical machine parts. Elements of computer-aided design of technological processes.

l ah:

- 1 Technology of machining axisymmetrical objects (shaft, sleeve, disc)
- 2 Post-processing techniques
- 3 The technology of machining non-axisymmetrical objects (body, lever, plate, bracket)
- 4 Robotic assembly technology
- 5 Technological process of a cylindrical gear

Teaching methods:

Lecture - informative and conversational lecture.

Laboratories - laboratory method.

Basic bibliography:

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. Lectures	12
2. Laboratory	10
3. Preparation for the laboratory	20
4. Literature studying	20

Student's workload

Source of workload	hours	ECTS
Total workload	62	3
Contact hours	22	2
Practical activities	10	1