1011104411011120135

Course (compulsory, elective)

obligatory

2

ECTS distribution (number

1/1

Year /Semester

No. of credits

Name of the module/subject **Technical Graphics**

Elective path/specialty

12

Education areas and fields of science and art

Responsible for subject / lecturer: dr hab. inż. Józef Gruszka, prof. nadzw.

email: jozef.gruszka@put.poznan.pl

Faculty of Engineering Management

ul. Strzelecka 11 60-965 Poznań

Field of study

Cycle of study:

No. of hours

Lecture:

tel. 6653408

Logistics - Part-time studies - First-cycle

First-cycle studies

(brak)

Classes:

Status of the course in the study program (Basic, major, other)

12 Laboratory:

1	Knowledge	Basic knowledge from high school. The necessary information in the field of technology and machine parts will be explained subsequently.
2	Skills	Efficient drawing
3	Social competencies	Understanding the importance of technical drawing in a work of an engineer.
Ass	umptions and obj	ectives of the course:
PN. B	Based on information fro	amiliarize students with the most important information in the field of technical drawings including om the machine drawing the student gets acquainted with electrical drawings, architectural - ell as develops the ability to read technical drawings.
	Study outco	mes and reference to the educational results for a field of study
Kno	wledge:	
		ods, techniques, tools and materials that are applied in solving simple engineering tasks relating loitation - [K04-InzA_W02]
Skill	ls:	
	able to identify the proje InzA_U6]	ect tasks and solve simple design tasks within the construction and operation of machinery -
	an apply typical method _U06-K01, K01-InzA_U	ds for dealing with simple problems existing in the construction and operation of machinery - 17]
		eture and technology of simple machinery parts and components as well as design the on units of the first complexity degree - [K01-InzA_U8]
Soci	ial competencies:	
		d knows means how to self-study (first, second and third cycle studies, postgraduate studies, ving professional, personal and social competence - [K01-InzA_K1]
		Assessment methods of study outcomes

STUDY MODULE DESCRIPTION FORM

Profile of study

Subject offered in:

Form of study (full-time,part-time)

Project/seminars:

(brak)

(general academic, practical)

Polish

(university-wide, from another field)

dr inż. Agnieszka Misztal

tel. 616653437

Responsible for subject / lecturer:

email: agnieszka.misztal@put.poznan.pl

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part-time

(brak)

and %)

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Formative assessment:

Classes: on the basis of the of the progress of the project tasks from technical drawing

Lectures: on the basis of the answers to the questions regarding the covered material during previous lectures

Collective assessment:

Lecture: exam- multiple choice test

Classes: public presentation of the prepared drawing, conducting a discussion connected with the presentation as well as the quality form of the prepared materials

Course description

The course covers the following topics: types of drawings, sheet formats, standard elements of technical drawing, drawings and their location, views and sections, dimensioning, tolerance dimensions, the shape and position, designation of roughness and waviness, connections of machine parts, axles, shafts, bearings, clutches and brakes. Drawing and reading: schemas:: mechanical, hydraulic, pneumatic, thermal energy and vacuum techniques, elements of electrical, chemical and architectural? construction drawings. Drawings: charts and nomograms.

Basic bibliography:

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. lecture	30
2. Classes	15
3. consultation	30
4. preparation for classes	15
5. revision of the material	15
6. preparation for an exam	15
7. exam	0

Student's workload

Source of workload	hours	ECTS
Total workload	120	4
Contact hours	90	3
Practical activities	45	1