COURSE DESCRIPTION CARD - SYLLABUS

Course name
Engineering Graphics - AutoCad advanced [S1IFar2>GIacz]

Course

Field of study
Pharmaceutical Engineering

Year/Semester
1/2

Area of study (specialization)
–

Profile of study
general academic

Level of study
first-cycle

Course offered in
Polish

Form of study
full-time

Requirements
elective

Number of hours

Lecture
0

Laboratory classes
0

Other
0

Tutorials
0

Projects/seminars
15

Number of credit points

1,00

Coordinators

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Lecturers

Prerequisites

As a preliminary requirement the student should know the basics of designing in AutoCad.

Course objective

Practical knowledge of computer aided design. In addition, the student acquires the ability to make drawings in the AutoCad program. AutoCad 2D course - advanced level.

Course-related learning outcomes

Knowledge:
1. Has knowledge of the principles of technical drawing and computer aided 2D design. [K_W1]
2. Has knowledge of making executive drawings in AutoCad. [K_W1]

Skills:
1. Use the understanding of the indicated sources of knowledge (list of basic literature) and acquire knowledge from other literature sources, including electronic ones. [K_U1]
2. Is able to read and make technical drawings and technological diagrams, can use a selected computer program to create them. [K_U18]

Social competences:
1. He understands the need for further training and raising his professional competences, is aware that the acquired knowledge and skills will allow him to compete in the labor market. [K_K1]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Test. Assessment of class activity. If the classes will be held remotely, the forms of course assessments will remain unchanged and will be carried out with the use of tools provided by the Poznań University of Technology (https://elearning.put.poznan.pl/).

Programme content

The following topics are covered throughout the classes:
• drawing and editing in AutoCad,
• precise drawing functions,
• dimensioning drawings,
• isometric drawing,
• making executive drawings of machine parts and assembly drawings of devices.

Course topics

none

Teaching methods

Multimedia presentation, pdf materials.

Bibliography

Basic:
1. Kłosowski P., Ćwiczenia w kreśleniu rysunków w systemie AutoCAD 2010 PL, 2011 PL, Wydawnictwo Politechniki Gdańskiej, Gdańsk 2010.
2. Pikoń A., AutoCAD 2020 PL : pierwsze kroki, Helion, Gliwice 2020.

Additional:
1. Agaciński P., Grafika Inżynierska, Wydawnictwo Politechniki Poznańskiej, 2014.
2. Dobrzański T., Rysunek techniczny maszynowy, WNT Warszawa 2019.
3. Babiuch M., AutoCAD 2012 i 2012 PL : superprojekt od ręki? z autoCAD-em 2012!, Helion, Gliwice, 2016.

Breakdown of average student's workload

	Hours	ECTS
Total workload	30	1,00
Classes requiring direct contact with the teacher	15	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	15	0,50