



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Engineering graphics - AutoCad advanced [S1TCh2E>Glacz]

Course

Field of study	Year/Semester
Chemical Technology	1/2
Area of study (specialization)	Profile of study
–	general academic
Level of study	Course offered in
first-cycle	English
Form of study	Requirements
full-time	elective

Number of hours

Lecture	Laboratory classes	Other
0	0	0
Tutorials	Projects/seminars	
0	15	

Number of credit points

1,00

Coordinators

dr inż. Piotr Mitkowski
piotr.mitkowski@put.poznan.pl

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_W15
2. Has knowledge of making executive drawings in AutoCad. K_W15

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_U7

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.

Programme content

Issues related to advanced use of AutoCAD software.

Course topics

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.

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	25	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)	10	0,50