



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Engineering graphics - AutoCad advanced [S1TCh2>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	Polish
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

prof. dr hab. inż. Marek Ochowiak  
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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\_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

AutoCad software operation issues at advanced level.

### 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.

AutoCad software operation issues at a basic level.

### 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