



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Grafika inżynierska (AutoCad zaawansowany) (Engineering graphics - elective project ( AutoCad advanced course))

### Course

Field of study

Technologia chemiczna (Chemical Technology)

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

I/2

Profile of study

general academic

Course offered in

Polish

Requirements

elective

### Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

15

### Number of credit points

2

### Lecturers

Responsible for the course/lecturer:

Marek Ochowiak Eng, PhD, DSc

Responsible for the course/lecturer:

### 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\_U6

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

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	40	2,0
Classes requiring direct contact with the teacher	25	1,2
Student's own work (literature studies, preparation for tutorials, preparation for test, drawings preparation) <sup>1</sup>	15	0,8

<sup>1</sup> delete or add other activities as appropriate