



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Engineering graphics (A) - AutoCad

Course

Field of study

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

English

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:

Ph.D. Eng. Piotr T. Mitkowski

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Responsible for the course/lecturer:

Prerequisites

Student possess basic computer skills and completed the basic course on technical drawing or engineering graphics.

Course objective

Student is going to gain the practical knowledge of computer aided design. In addition, the graduate acquires the skills to create assembly drawings of machine parts and executive drawings of a separator.

Course-related learning outcomes

Knowledge

1. The graduate knows the principles of technical drawing and computer aided 2D design [K_W15]
2. The graduate has a knowledge necessary to create assembly drawings and executive drawings [K_W15]



Skills

1. The graduate can acquire information from literature, databases and other sources, including electronics ones [K_U01]
2. The graduate uses the principles of technical drawing and computer programs to support the tasks typical of engineering graphics [K_U07]

Social competences

1. The graduate understands the need to develop and improve his/her professional and personal competencies [K_K01]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The acquired knowledge during the project is verified continuously by delivering the specific drawings and final test drawing.

Programme content

During the course the following issues are discussed:

1. Introduction to CAD (computer aided-design) software, with focus on software supporting the 2D drawing and 3D object design,
2. Work with layers,
3. Dimensioning,
4. Creation assembly drawings of a machine parts,
5. Preparation of executive drawings.

Teaching methods

Multimedia presentation and pdf materials available thorough e-Learning system. During classes the AutoCad is used. For student possessing e-mail adress in student.put.poznan.pl domain are eligible to download and use for educational purposes selected software from Autodesk (more information go to www.autodesk.pl).

Bibliography

Basic

1. Kłósowski 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.
3. www.autodesk.pl



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	45	2,0
Classes requiring direct contact with the teacher	25	1,1
Student's own work (preparation for classes, preparation for tests) ¹	20	0,9

¹ delete or add other activities as appropriate