POZNAN UNIVERSITY OF TECHNOLOGY



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS) pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name				
Engineering Graphics				
Course				
Field of study			Year/Semester	
Chemical Technology			I/2	
Area of study (specialization)			Profile of study	
			general academic	
Level of study			Course offered in	
First-cycle studies			English	
Form of study			Requirements	
full-time			elective	
Number of hours				
Lecture	Laboratory classes	i	Other (e.g. online)	
0	0		0	
Tutorials	Projects/seminars			
0	15			
Number of credit points				
2				
Lecturers				
Responsible for the course/lecturer:		Responsible for	the course/lecturer:	
Ph.D. Eng. Piotr T. Mitkowski				
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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 and preparation of 2 drawing documentation. In addition, the graduate acquires the skills to create assembly drawings of machine parts and executive drawings.

Course-related learning outcomes

Knowledge

1. Student knows the principles of technical drawing and computer aided 2D design [K_W15]

2. Student has a knowledge necessary to create assembly drawings and executive drawings [K_W15]

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Skills

1. Student can acquire information from literature, databases and other sources, including electronics ones [K_U01]

2. Student uses the principles of technical drawing and computer programs to support the tasks typical for engineering drawing documentation. [K_U07]

Social competences

1. Student 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. Preperation of executive drawings.

Teaching methods

Multimedia presentation and pdf materials available thorugh e-Learning system. During classes the AutoCad is used. For student possesing 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. 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.

3. www.autodesk.pl

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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	50	2,0
Classes requiring direct contact with the teacher	25	1,0
Student's own work (preparation for classes, preparation for tests) ¹	25	1,0

¹ delete or add other activities as appropriate