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
CAD

Course

Field of study	Year/Semester
Production Engineering and Management	2/3
Area of study (specialization)	Profile of study
-	general academic
Level of study	Course offered in
First-cycle studies	Polish
Form of study	Requirements
full-time	compulsory

Number of hours

Lecture	Laboratory classes	Other (e.g. online)
	15	
Tutorials	Projects/seminars	

Number of credit points

1

Lecturers

Responsible for the course/lecturer:	Responsible for the course/lecturer:
Radosław Wichniarek	
email: radoslaw.wichniarek@put.poznan.pl	
ph. 61 665 27 08	
Faculty of Mechanical Engineering	
Piotrowo 3, 60-965 Poznań	

Prerequisites

Basics knowledge in scope of technical drawing and engineering graphics. Good skill to logical thinking, using of information obtained from engineering documentation and computer. Student understand of the need to learn and acquire new knowledge.

Course objective

Students become familiar with computer-aided design.

Course-related learning outcomes

Knowledge

1. The student knows the main forms of writing engineering graphic, methods of graphical mapping, sectional drawing, dimensioning.

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2. The student knows functions of software for 2D modeling, can enumerate the geometric elements used in the software.

3. The student knows the tools of precise drawing in CAD systems.

Skills

1. The student is able to use typical CAD 2D system graphical interface.

2. The student is able to use command line to run typical functions used in computer aided drafting.

3. The student is able to export/import CAD 2D data in different formats.

Social competences

1. The student is able to independently develop his knowledge and skills.

2. The student is aware of the role of computerization in the engineering activities.

3. The student is open to the implementation of modern information technologies in science and technology.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Partial marks:

Based on the assessment of the current progress of the tasks in laboratory.

Summary mark:

On the basis of a knowledge checking test (pass at the computer workstation).

Programme content

Laboratory:

1. Overview of computer systems for design process supporting.

2. Discussion of geometric elements used in computer systems.

3. Presentation and discussion of graphic software, input and output devices.

4. Modeling in computer graphics, issuing and executing commands, precise drawing, auxiliary tools.

5. Practical cognition with the basic methods of creating a drawing, modeling, visualization and archiving.

6. Creation of technical documentation, drawing blocks, components libraries and their applications.

Teaching methods

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Laboratory part: presentation by the teacher of practical issues related to computer aidded design and independent work of students at computers with supervision of the teacher.

Bibliography

Basic

1. Pikoń A., AutoCAD 2020 PL : pierwsze kroki, Gliwice : Wydawnictwo Helion.

2. Dobrzański T., Rysunek techniczny maszynowy, Wydawnictwo WNT : Wydawnictwo Naukowe PWN, 2019.

Additional

1. Technologia budowy maszyn, Feld M., PWN, Warszawa, 1993.

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,0
Classes requiring direct contact with the teacher	15	0,5
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation)[1]	10	0,5

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[1] delete or add other activities as appropriate