

Tárgytematika / Course Description

Technical Drawing 1

GKNB_MGTA001

Tárgyfelelős neve /

Teacher's name: Hajdu Flóra

Félév / Semester: 2020/21/1

Beszámolási forma /

Assesment: Folyamatos számonkérés

Tárgy heti óraszám /

Teaching hours(week): 2/2/0

Tárgy féléves óraszám /

Teaching hours(sem.): 0/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

Course description

The course covers the interpretation, creation and use of technical drawings. The standards required for technical communication are described. Two-dimensional representation of spatial three-dimensional objects and the practical applications are expounded. Provides skill in recognizing and drawing the most common machine elements.

Aim of course

- Obtain basic knowledge of the technical representation methods
- Development of visual perception
- Introducing and practicing the contents of international and national standards

TANTÁRGY TARTALMA / DESCRIPTION

Content of course

Week	Topic
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1	<p>Assessment</p> <p>Drawing Standards</p> <p>Technical Drawings Requirements</p>
2	<p>Basic drafting</p> <p>Applied geometry</p> <p>parallel, perpendicular lines, angles, equilateral triangle, square, pentagon, hexagon, ellipse, etc.</p>
3	<p>Pictorial representation</p> <p>Axonometry: isometric, dimetric and oblique projection</p>
4	<p>Break</p>
5	<p>Orthographic representation</p> <p>first angle and third angle projection</p>
6	<p>Auxiliary views</p> <p>Sections of solids: prism, cylinder</p>
7	<p>Dimensioning, tolerances</p>
8	<p>Sectional views: full section, half-sections, offset section, revolved section, broken-out section</p>
9	<p>Special views: detailed view, partial view, local view</p>
10	<p>Tolerances, fits</p>
11	<p>Surface finish</p>

12	Break
13	Mid-term test
14	Technical drawing examples Assembly drawing

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

Assesment

- 2 homework (35+35) – 70%
- 1 mid-term tests (30) - 30%

Homeworks

Task	Start	Deadline
Ortographic and pictorial representations of a truncated prism and a cylinder	2. week	8. week
Engineering drawing of 2 parts	8. week	12. week

The drawings must be submitted up to the deadline. In the event of a delay, 4 marks will be deducted from the final score.

Evaluating the tasks, the following is considered:

- required number of views
- linewidths
- dimensions
- filled in titleblock
- accuracy

Successful homework is max. 35 marks

- If the task can not be accepted (does not reach 50%), it can be re-done, but the maximum score is only 18 marks in this case.
- For pass at least 50% of the maximum 35 marks (ie 18 marks) should be reached of each homework, otherwise the mid-term grade will be inadequate (signature denied!)
- Homework can only be submitted during the lecture period! Re-done homework can be submitted till the end of the examination period, but only if it was submitted during the lecture period.

Mid-term tests

1. test: expected time 13. week, available score 30;

The mid-term test is not obligatory, but the result is included to the final marks.

Consultation about the homeworks and test is possible the next week after the assignment!

Grade:

0 - 49 marks	inadequate	1
50 - 64 marks	adequate	2
65 - 74 marks	average	3
75 - 84 marks	good	4
85 - 100 marks	excellent	5

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

Obligatory material

Presentation slides

C. Jensen, J. D. Hesel, D. R. Short: Engineering Drawing&Design

Recommended material

O. Ostrowsky: Engineering Drawings with CAD applications

F. Háromi, G. Kovács: Műszaki Ábrázolás (in Hungarian)