**Introduction to graphic communication (ECTS 5)**

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Language: the course is offered in Serbian and Hungarian.

**Course description:**

The course covers the basic aspect of communication regarding the design process. Having in mind the aspects of communication, the visualization, communication itself and documentation is discussed in detail. Some aspects of the interdisciplinary approach are also discussed. After this, the basic principles of descriptive geometry are discussed; projections, geometric elements, transformations, etc. In the end, the mathematical principles of computer-aided design are discussed focusing mainly towards vector-graphics, but also covering some aspects of raster-graphics.

This course would cover the following topics, both as lectures and exercises:

1. Introduction
2. Design process
3. Visualisation
4. Communication and Documentation
5. Introduction to descriptive geometry
6. Projections
7. Geometric elements
8. Special geometric elements
9. Finding the true dimensions and shapes 1
10. Finding the true dimensions and shapes 2
11. Mathematical principles of CAD – vector graphics
12. Transformation in 2d
13. Transformation in 3d
14. Raster graphics
15. Closing remarks

**Aims:**

The goals are the following: - The students should accept the necessity to communicate during the design process, and the techniques, which enable that. Also, students should be able to understand, and design in 2d, based on 3d ideas. Students should be able to understand the mathematical principles of CAD, and vector graphics as well as raster graphics.