



SUBJECT DATASHEET

Semester:	2010/11/1
Subject:	Technical Drawing and Descriptive Geometry
Code:	VEMKGEB121R
Responsible department:	Department of Mechanical Engineering
Responsible department code:	MKGE
Responsible lecturer:	Dr. Sándor Verdes

Educational objectives:

Students getting acquainted with the most important rules of technical drawing and industrial standards.

Detailed content of the subject:

1. Introduction lecture. Significance of technical drawing in the cooperation of engineers 2. of different professions. Different types of projection (multi-view projection, 3. axonometric-, engineering- and perspective presentation). Introduction and practicing of different types of projection by use of special models. 4. Delineation of space-elements (point, line, plane) I. 5. Delineation of space-elements (point, line, plane) II. 6. Rectifying, rotation. 7. Intersection of two intersecting planes. 8. General knowledge of technical drawing. Designation of views on engineer drawings. Arrangements of views. 9. Projections out of ordinary arrangement of views. Particular sort of views. Special representation. 10. Sections and profiles. 11. Indicating of sections and profiles. 12. Dimensioning of technical drawings. General specifications of dimensioning. Marks for dimensions. 13. Test paper. 14. Simplifications of dimensioning. Structure of measuring network 15. Geometrical quality of the surface. Unevenness of surface. Surface roughness, terminology. Designation of the surface roughness on technical drawings. 15. System of limits and fits. The basic principles and elements. Structure of the ISO system on limits and indicating of fits, tolerances of sizing and its form and position on technical drawings.

Requirements:

The Student must take part on more than 80 % of the Lessons. During the semester will be 1 test on the 8-th week.

Required and suggested references:

Gonda S.-László A.- Szalczinger J.: Rajztermi gyakorlatok ábrafürzet. Veszprémi Egyetemi Kiadó, Veszprém, 1994. Gonda S.- Szalczinger J.: Műszaki rajz-géprajz fejezeteinek segédlete. Veszprémi Egyetemi Kiadó, Veszprém, 1996. Gonda S.: Ábrázoló geometria fejezeteinek segédlete. Veszprémi Egyetemi Kiadó, Veszprém, 1990. Szalczinger J.: Ábrázoló geometria fejezeteinek feladatgyűjteménye. Veszprémi Egyetemi Kiadó, Veszprém, 1990.