UNIVERSITY OF PANNONIA

COURSE DATASHEET

Semester:	2015/16/1
Course:	Technical Drawing and Descriptive Geometry
Code:	VEMKGEB121R
Responsible department:	Institute of Mechanical Engineering
Department code:	MKGEI
Responsible instructor:	Dr. Sándor Verdes

Course objectives:

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

Course content:

Introduction lecture. Significance of technical drawing in the cooperation of engineers, of different professions. Different types of projection (multiwiev projection, axonometric-, engineering- and perspective presentation). Introduction and practicing of different types of projection by use of special models. Delineation of space-elements (point, line, plane) I. Delineation of space-elements (point, line, plane) II. Rectifying, rotation. Intersection of two intersecting planes. General knowledge of technical drawing. Designation of views on engineer drawings. Arrangements of views. Projections out of ordinary arrangement of views. Particular sort of views. Special representation. Sections and profiles. Indicating of sections and profiles. Dimensioning of technical drawings. General specifications of dimensioning. Marks for dimensions. Test paper. Simplifications of dimensioning. Structure of measuring network Geometrical quality of the surface. Unevenness of surface. Surface roughness, terminology. Designation of the surface roughness on technical drawings. 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, evaluation and grading:

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 recommended readings:

Gonda S.-László A.- Szalczinger J.: Rajztermi gyakorlatok ábrafüzet. 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.