



COURSE TITLE:	Engineering Graphics and Design
Institute/Division:	Department of Automation and Computer Engineering Faculty of Electrical and Computer Engineering
Course code:	E-EGD
Erasmus subject code:	0714
Number of contact hours	45
Course duration:	1 semester (Spring/Summer)
ECTS credits:	6
Course description:	<p>The course covers basic information about engineering design based on examples of two and three-dimensional geometry. During the course, students will develop the ability to visualize shape and form in three dimensions with a high degree of fluency. The main goal of this course is to show how to create original drawings and read the content of drawings without ambiguity.</p> <p>Course objectives:</p> <ul style="list-style-type: none">• Product development and computer-aided design.• Principles of first and third angle orthographic projection.• Three-dimensional illustrations using isometric and oblique projection. Sections and sectional views.• Dimensioning principles. Screw threads and conventional representations. Limits and fits. Geometrical tolerancing and datums. Springs, cams and gears. Welding and welding symbols.• Assamles and final visualization and rendering.• Preparation for prototyping. <p>Intended software: Autodesk Inventor</p>
Course type:	Lectures (10h), Laboratory (25h), Project (10h)
Literature:	Manual of Engineering Drawing by P Colin H Simmons Elementary Engineering Drawing by N.D.Bhatt Instruction for the AutoCAD and Inventor program
Prerequisites:	Basic knowledge of engineering graphics and design. Basic knowledge of how to read engineering drawings. Basic knowledge of the essential elements of English grammar and mechanics.
Assessment method:	For laboratory exercises assessment will be made after finishing given exercises and finishing bigger final course exercise. (practical assessment method)
Contact Person:	Prof. Łukasz Ścisło, lukasz.scislo@pk.edu.pl