

FACULTY:	<b>Institute of Technology and Education</b>
FIELD OF STUDY:	Materials Science and Engineering
COURSE TITLE:	<b>Engineering graphics and product documentation</b>
LECTURER'S NAME:	Lector: Class trainer: Kazimierz Kamiński, M.Eng.
E-MAIL ADDRESS OF THE LECTURER:	
ECTS POINTS FOR THE COURSE:	4
ACADEMIC YEAR:	2014/2015
SEMESTER: (W – winter, S – summer)	W
HOURS IN SEMESTER:	30+15=45
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	1 <sup>st</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Lectures (30h), Classes (15h)
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Written exam, project work.
COURSE CONTENT:	<p>Course covers basic information about engineering design based on examples of two and three dimensional geometry. During 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: 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. Production drawings.</p>
ADDITIONAL INFORMATION:	<p>Prerequisites: A basic knowledge of the essential elements of English grammar and mechanics. Familiarity with the research process, including the electronic library systems.</p>
RECOMMENDED LITERATURE	C. Simmons, D. Maguire, N. Phelps: "Manual of Engineering Drawing" Second Edition, Butterworth-Heinemann 2009.