Presentation of scientific and technical subjects (WTCNXCSM-PoSaTS)

Name: Name in Polish: Name in English:

Presentation of scientific and technical subjects

Information on course:

Course offered by department: Course for department:	Faculty of Advanced Technologies and Chemistry Faculty of Advanced Technologies and Chemistry
Default type of course examination	report:
Graded pass	
Language: English	
Short description:	
Terminology of mathematics. Terminology of general physics Rudiments of materials engineering	
Description:	
	urvey of the rudiments of English grammar important from the subject's point of view. rersity. Evaluation of students' knowledge. Types of studies and university activities. University
3. English vocabulary in mathematics. multiplication, division of numbers and 4. Notion of a function. Types of function	Cardinal and ordinal numbers. Fundamental mathematical operations. Addition, subtraction, algebraic expressions. Sum, difference, product and ratio of mathematical quantities. ons. Scalars and vectors. Vector calculus. Dot and vector prod-uct. Fundamentals of geometry. nd integral calculus. Notions of a differential and an integral. Probability calculus and mathematical
5. Structure of physical sciences. Scal Formulation of fundamental physical la	ar and vector physical quantities. The SI units. Description of physical phenomena in English. aws and principles.
Reading and analysis of chosen popul	ntific issues in written and spoken English. Guides for preparation of a computer presentation. larized scientific papers on mathematics and physics. oplied in chemis-try. Structure of the science. Reading the names of chemical elements and basic
	f quantum mechanics. Notions of energy shells and sub-shells. Structure of an atom. Periodic table ds. Chemical reactions. Chemical affinity. Solutions.
9. Basics of inorganic chemistry. Physicompounds. Lab work description. Voc	ical chemistry. Conservation principles in chemistry. Nomenclature of chemical inorganic cabulary of technological chemistry. Lab instruments and utensils.
Instrumental methods in chemistry.	acroscopic prop-erties of matter. Physical methods for research of macroscopic properties of matter. escription of scientific and technological topics. Written presentations of chosen physical and
chemical phenomena. Analysis of pop technology. Oral presentations of som	ularized scientific texts oriented towards understanding of English applied in chemistry and chemical
Bibliography: Basic:	
 P. Domański, English in Science an L. Szkutnik, An Introductory Course R. Macpherson, University English, E. B. Uvarov, A. Isaacs, Dictionary of David. W. A. Sharp, The Penguin D 	in Scientific English, PWN, 1978. Wydawnictwa Szkolne i Pedagogiczne, 1994. of Science, The Penguin, 1993.
Complementary: 1. P. Atkins & J. de Paula. Physical Ch	nemistry, Oxford University Press, 2005.
Learning outcomes:	
Symbol / Efekty uczenia się / Odniesie	nie do efektów kierunku
	ange of scientific and technological problems / K_W02, e to formulate a detailed description of basic chemical, physical and physicochemical phenomena
W3 / Knows the general chemical, mai issues / K_W02, K_W017	thematical and physical terminology necessary to translate papers on scientific and technological
U2 / Has the ability to present scientific research / K_U015	c and technological issues both in written and oral way as well as to describe results of scientific
U4 / Is able to present scientific and te K1 / Properly recognizes and solves p	and printed sources of scientific information / K_U10 echnological issues in the form of publications, lectures and conference appearances / K_U15 roblems related to his/her profession / K_K05
Assessment methods and assessm	
range of electronics and its consequer The final mark is the arithmetical avera	n of the positive results of the oral seminar presentation of a chosen problem in English within the nt preparation for publication in a scientific journal. age of the marks obtained for the two requirements mentioned above.
preparation of the paper. mark $2 - $ less than 50% of the required	2, W3, W4, U3, U4, K1 i K3 is verified during the oral presentation and during formulation and d knowledge;
mark 3 – 50 ÷ 60% of the required kno	owledge;
mark $3,5 - 61 \div 70\%$ of the required kn mark $4 - 71 \div 80\%$ of the required kno	

mark 4,5 – 81 ÷	90% of the required	knowledge;
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mark 5 - more than 91% of the required knowledge.

Mark 5 is given to a student who has acquired knowledge, skills and competencies contained in the teaching results system, is competent and consistent in the knowledge acquirement process.

Mark 4 is given to a student who has acquired knowledge, skills and competencies contained in the teaching results system on a good level.

Mark 3 is given to a student who has acquired knowledge, skills and competencies contained in the teaching results system on a satisfactory level.

Mark 2 is given to a student who has not acquired the basic knowledge, skills and competencies contained in the teaching results system and has not accomplished the necessary requirements.

Mode of study

full-time studies

Form of study

second-cycle studies

Course

mandatory

Introductory subjects

general physics and mathematics at a level of a technical university
English within the range of secondary comprehensive school

Programs

materials engineering

Form of course / number of hours / final requirement

Exercises/30 h/+

Author

Wiesław Borys, PhD, Eng

ECTS balance

missing value in English

Course credits in various terms:

<without a="" program="" specific=""></without>					
Type of credits	Number	First term	Last term		
European Credit Transfer System (ECTS)		2019/20L			