

Course title: English in chemistry						
	Specialty	Semester	Number of ECTS	Number of hours in the class	Form	
	Foreign students	winter	1	15	Tutorial class	
Name of lecturer: Prof. Marek Kwiatkowski						
Objective of the course (expected learning outcomes and competences to be acquired)						
Making students familiar with the basic terminology used in the English-speaking professional chemical texts, preparing students to understand the professional publications in chemistry in the English language and self formulation of chemical texts in this language						
Prerequisites: Completed courses of General chemistry, Inorganic chemistry, Organic chemistry and Physical chemistry.						
Teaching methods: Tutorial classes – texts analysis with discussion; Tutorial classes – discussion Interactive exercises with the use of multimedia board						
Course contents						
Mathematics in Chemistry; Atoms, Isotopes, Radioactivity; Electron Configuration of Atoms and Ions. Periodic Table; Types of Chemical Bonding; Naming Inorganic and Co-ordination Compounds; Classification of Organic Molecules. Types of Formulae; Naming Organic Compounds; Laboratory Techniques. Labware; Analytical tests. Quantitative Analysis (Titration); Chromatography (Paper C., TLC, GC, HPLC); Spectroscopy (UV-VIS, IR, MS, NMR). Spectrometric Identification of Compounds. Basic Concepts in Physical Chemistry (Thermodynamics, Kinetics, Chemical Equilibrium)						
Recommended reading:						
Selected papers or their fragments in English recommended by a lecturer.						
Assessment methods:						
- Mid-term tests						
Language of instruction: English						