Sylabusy - Centrum Informatyczne l



	KAPITAŁ LUDZKI NARODOWA STRATEGIA SPÓJNOŚCI	Proje Ur E	ekt współfii nię Europe uropejskie Społe	nansowany jską w rama go Fundusz cznego	orzez ich :u	UNIA EUROPEJSKA EUROPEJSKI FUNDUSZ SPOŁECZNY		
Course title					ECTS	S code		
Repetitory in general and inorganic chemistry				13.3.1287				
Name of unit admin	istrating study							
Faculty of Chemis	try							
Studies								
faculty	field of study		type	second tier s	tudies ((MA)		
Faculty of Chemistry	Chemistry		form	full-time		· · ·		
		sner	specialty	all				
		эрс	cialization	uii				
Teaching staff								
dr Krzysztof Żamo	jć							
Forms of classes, t	of hou	rs		ECTS credits				
Forms of classes					3			
Auditorium classes					classes - 30 h			
The realization of activities					stu	dent's own work – 30 h		
classroom instruction					tuto	orial classes – 15 h		
Number of hours								
Auditorium classes: 30 hours					10	01AL: 75 h – 3 ECTS		
The academic cycle)							
2022/2023 winter :	semester							
Type of course				Language of instruction				
obligatory				english				
Teaching methods				Form and method of assessment and basic criteria for eveluation or				
Multimedia presentation, in-class examples,				Final evaluation				
exercises, solving problems, conversation and								
discussion.								
				test				
				test				
				A single choice test covering the whole material. Assessment criteria in accordance with				
				the University of Gdańsk Study Regulations.				
Method of verifying	required learning outcome	es	1					
During the auditory class	ses students solve problems in s	peech a	and writing i	n the field of	general	and inorganic chemistry. The course ends with a writi		
test (a single choice test).							
Required courses a	nd introductory requireme	nts						
A. Formal requireme	nts							
none								
B. Prerequisites								
basic knowledge in general and inorganic chemistry								
Aims of education								
Familiarize students	with the main aspects of genera	I chemis	stry and cla	sses of inorga	nic con	npounds		
		-1		-6 -1-				
Atomistic theory of m	iatter (atomic nucleus, isotopes, ical terms and lows periodic teb	electror	ments che	e ot atoms, qu mical equation	antum r	numbers, atomic uding redox reactions) chemical		
bonds basic types o	f inorganic compounds stoichio	metry s	olutions and	their concer	trations	thermochemistry kinetics and		

chemical equilibrium, theories of acids and bases, equilibria in the solutions of electrolytes, electrolytic dissociation, pH scale, pH of solutions of

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strong and weak acids and bases, buffer solutions, hydrolys	is, elements of electrochemistry.
Bibliography of literature	
 Literature required to pass the course P. Atkins, L. Jones – CHEMISTRY. Molecules, matter, and c P. Atkins, L. Jones, L. Laverman – Chemical principles. The Extracurricular readings L. Pauling – General chemistry M. J. Sienko, R. A. Plane – Chemistry: principles and proper J. D. Lee – Concise inorganic chemistry F. A. Cotton – Basic inorganic chemistry D. A. Cox – Inorganic chemistry 	change quest for insight ties
The learning outcomes (for the field of study and	Knowledge
specialization) K_W02: has in-depth knowledge in the field of general and inorganic chemistry	Students: know main states of matter; understand structure and properties of atoms as well as other chemical particles; understand essence of main types of chemical bonds;
K_W04: applies the acquired knowledge to an in-depth description of the properties of chemical connections, methods of their synthesis and analysis	basic terminology and symbolism in terms of elements, inorganic compounds, electrolytes, electrolytic dissociation as well as chemical reactions in water solutions; know
K_U01: plans chemical experiments of extended complexity	physicochemical properties of chosen elements and chemical compounds (oxides and hydrides of metals and nonmetals, bases, acids and salts) know main applications of known chemical substances as well as threats connected with their
K_U03: finds necessary information in specialist literature	inappropriate use; know main techniques of calculations in
K_U04: applies acquired knowledge of general and	Skille
inorganic chemistry and related scientific disciplines	Students: present plainly – in both speech and writing – correct
K_K01: knows the limitations of her/his own knowledge; understands the need for further education	chemical argumentation; present and explain chemical phenomena and processes, i.e. write molecular and ionic equations for chemical reactions, interpret qualitatively and
K_K05: understands the need for independent search of information in scientific literature	quantitatively equations for chemical reactions; interpret and analyze information connected with general and inorganic chemistry presented as text, tables, plots, schemes, figures; formulate descriptions of different chemical phenomena and processes, describe them with use of own words and figures (schemes); explain similarities and differences in properties of elements, relations between structure of substances and their properties; notice causal links in chemical processes performed in different conditions, where typical chemical reactions occur explain course of different phenomena from everyday life with the use of chemical knowledge in correlation with other sciences; interpret information, formulates conclusions and explain
	opinions.
	Social competence
	Students: understand need for learning, inspire other for learning; cooperate in group, taking different roles; exhibit creativity in determination of priorities necessary for realization of different tasks; understand social aspects of practical use of knowledge and abilities as well as connected with them
Contact	responsibility.
Contact	
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Uniwersytet