"ZATWIERDZAM"		

KARTA INFORMACYJNA PRZEDMIOTU/ZAJĘĆ (wersja anglojęzyczna w przypadku przedmiotu/zajęć w j. angielskim)

nazwa przedmiotu	Historia Chemii	History of Chemistry
Kod przedmiotu	WTCCXCSI-HoCh	
Język wykładowy	English	
Profil studiów	General academic	
Forma studiów	Full-time studies	
Poziom studiów	I degree studies	
Rodzaj przedmiotu	General subject	
Obowiązuje od naboru	2020/2021	
Forma zajęć, liczba godzin/rygor, razem godz., pkt ECTS	e.g. W 20/x, Sem. 10/+, total:	30 h, 2 ECTS
Przedmioty wprowadzające	General chemistry, Inorganic c	hemistry
Semestr/kierunek studiów	6 th semester / chemistry	
Autor	Mateusz Szala, phD	
Jednostka organizacyjna odpowiedzialna za przedmiot	Faculty of New Technologies a	and Chemistry
Skrócony opis przedmiotu	ern chemistry. At the beginning verse will be discussed, followed achievements of antiquity (a placed on the achievements of velopment of techniques for the as well as their influence on the and the structure of chemical collution of nomenclature and sy pounds will be discussed. The kinetic and thermodynamic strughasis will be placed on the results.	th the broadly understood roots of mod- g, the synthesis of elements in the uni- ed by the first observations and chemical lchemy). Particular emphasis will be chemistry after 1661 (R. Boyl). The de- e separation of substances and analysis he development of views on chemistry compounds will be presented. The evo- mbols of elements and chemical com- e history of Mendeleev's periodic table, addies will be presented. Particular em- apid development of organic chemistry ury and its impact on the emergence of
Pełny opis przedmiotu (treści programowe)	Alchemy in Egypt, China and 2. Nature of the matter: from	` '

	4. Organic chemistry: from Berzelius to drug design (4h).	
	5. Physical chemistry: from Lavoisier to Einstein and Feynman (4h)	
	6. Analytical chemistry from Joseph Proust to Paul Lauterbur (4h).	
	Seminars	
	Cross-field scientists (2h)	
	Influence of scientists on everyday life (2h)	
	Chemistry in the service of peace (2h)	
	4. Nobel Prize Winners in Chemistry (2h)	
	5. Is the history of chemistry over? (2)	
Literatura	J. Hudson, History of Chemistry Chapmann & Hall, NY, 1992	
	W. H. Brock, The Fontana History of Chemistry, Fontana Press, Wiesbaden 1997	
	D. Lowe, The chemistry book: from gunpowder to graphene, 250 milestones in the history of chemistry, Sterling publ., NY, 2016	
	C. Cobb, M. Fetterolf, H. Goldwhite, The history of alchemy: from dragon's lood to donkey dung, how chemistry was forged, Prometeus books, NY, 2014	
Efekty uczenia się	W1 / global scientific and technological achievements including theoretical foundations as well as general issues and selected specific issues - appropriate for a given scientific discipline / K_W01	
	U1 / obtain the necessary information related to the conducted research, using sources, including English-language ones / K_U01	
	K1 / independent research extending the existing scientific and creative achievements / K_K04	
Metody i kryteria oceniania (sposób sprawdzania	The course ends with a final exam.	
	The condition for passing the course is obtaining a positive note in the colloquium (in the form of a multiple choice test) and passing	
	The test questions concern the knowledge provided during lectures and acquired by the student independently while studying the subject	
	lectures. The test contains 10 questions with four answers for choice. The student's task is to indicate the correct answer(s). For each correct answer, the student receives 1 point, for each incorrect answer - zero. Maximal the number of points for the test is 10. Grades: 5 points. – C, 6 points – C +, 7 points - B, 8 points – B+, 9-10 points - A note.	
	The achievement of W1 and W2 outcomes is verified during a colloquium of lectures and activities during classes.	
	The achievement of U1, K1 outcomes is checked during seminars, based on the implementation of assigned tasks and as a result of	
osiągnięcia przez studenta zakładanych	evaluation of completed reports.	
efektów uczenia się)	A very good note is awarded to a student who has acquired the knowledge, skills and competences required by the learning outcomes to a very high degree good, and also shows interest in the subject, approaches assigned tasks in a creative way and demonstrates self-efficacy independence in acquiring knowledge. Demonstrates perseverance, independence in overcoming difficulties and systematicity work.	
	A good note is awarded to a student who has acquired the knowledge and skills provided for in the learning outcomes to a good extent. He can solve tasks and problems of medium difficulty.	
	A satisfactory note is awarded to a student who has acquired the knowledge and skills provided for in the learning outcomes to a sufficient extent.	

	Independently solves tasks and problems of low difficulty. There are noticeable gaps in his knowledge and skills however, complete it under the teacher's guidance.
	A student who does not have the knowledge, skills and competences in the field of necessary requirements receives an unsatisfactory note .
	The final grade for the course consists of: the grade from the colloquium, the grades from the seminars and the student's involvement and approach to science.
Bilans ECTS (nakład pracy studenta)	Activity type / student's work time. 1. Lectures 20 2. Seminars 10 3. Independent studies of lecture topics 15 4. Independent preparation for the seminar 5 5. Participation in consultations 2 6. Preparation for the exam 5 Total student workload: 57/2 Tasks involving teachers: 30 /1 Tasks related to scientific activity: 57 / 2.0 ECTS

Author	Manager of faculty responsible for the subject