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Course title		ECTS code				
Wykład dyplomowy - Chemia a sj	połeczeństwo/Communi	13.3.0592				
chemistry						
Name of unit administrating stu	dy					
Faculty of Chemistry						
	Studies					
Field of study	Field of study Type		Form			
-						
Chemistry	Bachelor I		Full-time studies			
Teaching staff						
Prof. dr hab. inż. Marek Kwiatkow	vski					
Forms of classes, the realization and number of hours			ECTS credits			
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A. Forms of classes, in accordance with the UG Rector's			 lecture 30 h tutorial classes 5 h student's own work 15 h TOTAL: 50 h - 2 ECTS 			
regulations						
lecture						
B. The realization of activities				, ,		
In-class learning						
C Number of hours			-			
Lecture 30 h						
The coordering evolution						
The academic cycle	*					
Infu year, summer semeste	<u>[</u>]					
Type of course Language of			finstruction			
obligatory	Polish					
		<u> </u>				
Teaching methods		Form and method of assessment and basic criteria for evaluation or ovomination requirements				
Lecture with a multimedial presentation		examination requirements				
		A. Final evaluation, in accordance with the UG study regulations Course completion (with a grade)				
	B. Assessment methods. Two multiple choice tests, one in the middle					
	and one at the end of the semester					
	The basic criteria for evaluation					
More than 5			50% points from every test			
Required courses and introductory requirements						
A Example requirement	ory requirements					
D. Deres and states Conserved Chamisters Incoments Chamisters Operation Chamisters Distributers						
D. Frerequisites General Chemistry, morganic Chemistry, Organic Chemistry, Physical Chemistry.						

Aims of education

To explain the students how the acquired chemistry knowledge is related to phenomena and problems they know from their personal experience and knowledge about the contemporary world.

Course contents

Chemistry of foodstuffs and cooking. Water – properties, natural waters, composition and properties of common drinks. Alcoholic beverages and stimulants – properties, chemistry, preparation. Chemistry of cleaning agents and cosmetics. Chemistry in agriculture: soil, fertilizers, pesticides. Chemical industry: manufacturing of bulk chemicals, raw material sources, economics of chemical production. Production of energy, fossil fuels. Elements of evironmental chemistry.



Bibliography of literature

- A. Literature required to pass the course 1. M. M. Jones, D. O. Johnston, J. T. Neterville, J. M. Wood, M. D. Joesten "Chemistry and Society", Saunders College Publishing, Philadelphia 1987.
 2. K. Waldron "The Chemistry of Everything", Pearson/Prentice Hall, Upper Saddle River 2007.
 - 3. Handouts prepared by the author.
- **B.** Extracurricular readings

Knowledge

Lists main and components of foodstuffs, beverages, stimulants, cleaning agents and cosmetics, reflects on their function, describes their chemical and biochemical transformations. Describes the role of chemistry in agriculture, manufacturing industry and energy production. Reflects on impact of chemistry on the development of civilization as well as on the natural environment.

Skills

Predicts the relationship between the molecular structure of chemicals and their properties and potential application, explaining the use of particular components in foodstufs, beverages, stimulants, cleaning agents and cosmetics. Using professional terminology, argues how the energy production, chemical industry and agriculture affect the world, showing the advantages and disadvantages.

Social competence

Appreciates the necessity to understand how chemistry affects our everyday life. Finds this relationship as important in teaching process.