

Subject card

Subject name and and	Organic chemistry, PG, 00060851							
Subject name and code	Organic chemistry, PG_00060851							
Field of study	Chemical Technology							
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025		
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study		
						Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	2		Language of instruction			Polish		
Semester of study	3		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Organic Chemistry -> Faculty of Chemistry							
Name and surname	Subject supervisor dr hab. Magdalena Śliwka-Kaszyńska							
of lecturer (lecturers)	Teachers	dr hab. Magdalena Śliwka-Kaszyńsl			ка			
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM
	Number of study hours	15.0	30.0	0.0	0.0		0.0	45
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM			
	Number of study hours			10.0		65.0		120
Subject objectives	Knowledge of the structure, physicochemical properties and reactivity of organic compounds.							
Learning outcomes	Course outcome		Subject outcome		Method of verification			
	[K6_U11] individually plans and implements his/her own learning		The student is able to independently plan and implement his/her own learning.			[SU3] Assessment of ability to use knowledge gained from the subject		
	qualitative analysis, making measurements and determining the parameters of chemical reactions, phenomena and processes occurring in chemical technology		The student is able to use knowledge of inorganic, organic, physical and analytical chemistry to obtain specific chemical compounds and to determine their physicochemical properties. The student is able to perform quantitative and qualitative analysis, make appropriate measurements and determine the parameters of chemical processes occurring in the chemical technology.			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U03] is able to apply knowledge of inorganic, organic, physical and analytical chemistry and identify appropriate sources of information to design and synthesize simple chemical compounds, carry out basic physicochemical and analytical measurements		The student draws correct structural formulas of organic compounds. The student recognizes the structures of organic compounds. The student has knowledge of the nomenclature of organic compounds. The student explains the relationship between the structure of an organic compound and its reactivity. The student identifies atomic and molecular orbitals.			[SU3] Assessment of ability to use knowledge gained from the subject		

Data wygenerowania: 21.11.2024 22:33 Strona 1 z 2

Subject contents	Alkanes, Cycloalkanes Reactivity and Stereochemistry of Alkanes and Cycloalkanes Nucleophilic Substitution Reactions Elimination Reactions Alkenes, Alkene Reactivity Alkynes, Alkyne Reactivity Conjugated Multiple Bond Systems Aromatic Compounds, Electrophilic Substitution and Nucleophilic Substitution Reactions Alcohols, Ethers, Epoxides						
Prerequisites and co-requisites	Basic topics in inorganic and physical chemistry.						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	3 written tests	60.0%	100.0%				
Recommended reading	Basic literature	R. T. Morison; R. N. Boyd; Chemia Organiczna, Wydawnictwo naukowe PWN, Warszawa 1996. J. McMurry Chemia Organiczna, Wydawnictwo naukowe PWN, Warszawa 2000. J. D. Caserio, M. C. Roberts, CHEMIA ORGANICZNA, PWN Warszawa, 1969.					
	Supplementary literature	J. March Chemia Organiczna- reakcje , mechanizmy , budowa. Wydawnictwo Naukowo Techniczne , Warszawa 1975.					
		J. Gawroński, K. Gawrońska, K. Kacprzak, M. Kwit WSPÓŁCZESNA SYNTEZA ORGANICZNA, WN PWN Warszawa 2004.					
		J. March CHEMIA ORGANICZNA - Reakcje, mechanizmy, budowa, WNT Warszawa 1975.					
		H. O. House NOWOCZESNE REAKCJE SYNTEZY ORGANICZNEJ, PWN Warszawa 1979.					
		T. W. G. Solomons ORGANIC CHEMISTRY - 6th ed, John Wiley & Sons, Inc. New York, 1996.					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Draw the chemical structure of the following hydrocarbons: 6-isopropyl-2,3-dimethylnonane, cyclobutylcyclobutane, 4-tert-butyl-3-methylheptane, (2,2-dimethylpropyl)cyclohexane, 4-isobutyl-1,1-dimethylcyclohexane, pentacosane, sec-butylcycloheptane, 10-(1-methylpentyl)pentacosane						
Work placement	Not applicable						

Document generated electronically. Does not require a seal or signature.

Data wygenerowania: 21.11.2024 22:33 Strona 2 z 2