Sylabusy - Centrum Informatyczi



KAPITAŁ LUD Narodowa strategia	
Course title	ECTS code
Chemistry of fragrances	13.3.0436
Name of unit administrating study	
Faculty of Chemistry	
Studies	
faculty field of st	dy type pierwszego stopnia
Wydział Chemii Chemia	form stacjonarne
	specialty chemia kosmetyków
	specialization wszystkie
Feaching staff	
dr hab. Zbigniew Kaczyński, profesor	czelni; mgr Agnieszka Kowalczyk; mgr Nikola Szpakowska
Forms of classes, the realization and	
Forms of classes	2
Laboratory classes, Lecture	classes - 30 h
The realization of activities	tutorial classes – 5 h
classroom instruction	student's own work – 15 h
lumber of hours	
	Total: 50 h - 2 ECTS
Lecture: 15 hours, Laboratory classes	15 hours
The academic cycle	
2024/2025 winter semester	
Type of course	Language of instruction
obligatory	polish
eaching methods	Form and method of assessment and basic criteria for eveluation or examination requirements
- conducting experiments	Final evaluation
- multimedia-based lecture	
	Graded credit Assessment methods
	- written exam with open questions
	- (mid-term / end-term) test The basic criteria for evaluation
	Lecture: - The condition for obtaining a positive rating is min. 51% of possible points from the
	written exam covering the scope of material realized during lectures and laboratory
	exercises
	- Negative grade can be improved on the basis of additional credit from the material
	realized during lectures and laboratory exercises (minimum 51% of possible points
	Laboratory exercises:
	 The grades from the laboratory exercises will consist of partial marks:
	- for the preparation and execution of the project,

A. Formal requirements

Completed the course of organic chemistry and cosmetics chemistry

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B. Prerequisites

Basic knowledge in the field of analytics of organic compounds and raw materials used in the production of cosmetics

Aims of education

Familiarization students with the functioning of the sense of smell and the reception of aroma stimuli by the human body

- · Familiarization students with the division of fragrances due to chemical structure or source of acquisition
- · Familiarization students with the characteristics of selected fragrances in terms of their use and potential impact on human health
- · Familiarization students with the basics of the analysis of fragrances
- The ability to independently perform quantitative and qualitative analysis of fragrances

Course contents

A. Problems of the lecture

The sense of smell and its biological significance. The reaction of the human body to aroma stimuli. A brief outline of the historical fragrance and perfume chemistry. Division of fragrances due to chemical structure or source of sourcing (synthetic, natural - plant and animal). Characteristics of pheromones and attractants. Practical use of the influence of stereochemistry on odor. The role of fragrance in perfumery, cosmetics, household chemistry, food, aromatherapy and aroma marketing. Positive and negative odor impact on human health. Sensory analysis of fragrance substances. The principle of operation and the use of "artificial nose". Basics of quantitative and qualitative analysis of aromatic compounds using chromatographic and spectroscopic methods.

B. Problems of laboratory exercises:

Performing experiments covering issues related to the isolation and analysis of fragrances

Bibliography of literature

Literature required to pass the course

"Chemia piękna" Marcin Molski

"Chemia i technologia związków zapachowych" Janusz Kulesza, Józef Góra, Andrzej Tyczkowski

"The Chemistry of Fragrance" ed. by Charles Sell

A.2. studiowana samodzielnie przez studenta

"Chemia i technologia związków zapachowych" Janusz Kulesza, Józef Góra, Andrzej Tyczkowski

"Człowiek w świecie zapachów" Ewa Czerniakowska, Joanna Maria Czerniakowska - Far

Extracurricular readings

"Practical Analysis of Flavor and Fragrance Materials" ed. by Kevin Goodner, Russell Rouseff

The learning outcomes (for the field of study and specialization)	Knowledge
specialization	The student explains the operation and meaning of the sense of smell
	The student knows the reactions (positive and negative) of the human body to sme
	The student classifies fragrances with due to chemical structure and also because
	of the source of acquisition
	The student characterizes and explains the effect of selected fragrances
	The student explains the role of fragrance in perfumery, cosmetics, household
	chemistry, food, aromatherapy and marketing
	The student lists and characterizes the methods of analysis of aromatic compound
	Skills
	The student independently performs quantitative and qualitative analysis of
	selected fragrances
	The student independently searches for necessary information in professional
	literature, databases and other sources
	The student can present the results of research in the field of fragrance analysis in the form of a cold present (const) containing a description process.
	the form of a self-prepared report (report) containing a description, purpose,
	methodology, results, their interpretation and critical discussion of possible errors Social competence
	The student works independently and in a team The student is received in the effects of his work, he is coreful is decline with
	The student is responsible for the effects of his work, he is careful in dealing with
	chemical substances and measuring apparatus, he is responsible for the safety of
	his own work and others
	The student is aware of the need for further learning, including through informatio
	retrieval in scientific literature and popular science journals

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