

Food additives and contaminants Educational subject description sheet

Basic information

Field of study

Food Science - Technology and Nutrition

Speciality

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Organizational unit

Faculty of Food Technology

Study level

first cycle (bachelor's degree)

Study form

full-time studies

Education profile

General academic

Didactic cycle

2023/24

Subject code

NoZTNS D.18K.02453.23

Lecture languages

english

Mandatory

Obligatory subjects

Block

Major subjects

Disciplines

Food technology and nutrition

Coordinator	Emilia Janiszewska-Turak
Teacher	Emilia Janiszewska-Turak

Period Semester 4	Examination Exam	Number of ECTS points
	Activities and hours Lecture: 25	1

Goals

Code	Goal	
C1	The course aims to provide students with technological and health aspects of main food additives groups such as: preservatives, antioxidants, acidity regulators, coloring and flavoring agents, sweeteners and hydrocolloids.	

Generated: 2024-09-17 01:37 1 / 4

Entry requirements

Student has got a basic knowledge in food technology, general and organic chemistry.

Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods		
Knowledg	Knowledge - Student knows and understands:				
the role of food additives, the meaning and origin of food contaminants in food production and their impact on health and safety of consumers TN_K1_W03 Written exam		Written exam			
Skills - St	Skills - Student can:				
U1 choose the appropriate food additives to achieve technological and nutritional benefits TN_K1_U02 Written exam		Written exam			
Social competences - Student is ready to:					
K1	the justified and appropriate use of additives in food production	TN_K1_K02, TN_K1_K03, TN_K1_K04	Written exam		

Study content

No.	Course content	Subject's learning outcomes	Activities
	Lectures will cover following aspects related to: general overview of food additives utilization in regard to their legal aspects, preservatives, antioxidants, acidity regulators, colouring and flavouring agents, sweeteners and hydrocolloids, pesticide residues in food and selected food contaminants.		
1.	Legal state of food additives as present in EU and as described in Codex Alimentarius will be covered as well. Moreover, the course aims to provide Students information related to the Impact of food production and processing on the contaminants and pesticides residues content. The European and global legal regulations regarding the limits of these ingredients content will be given.	W1, U1, K1	Lecture

Course advanced

Activities	Methods of conducting classes	
Lecture Lecture, Conversation lecture, Discussion		

Activities	Examination method	Percentage	
Lecture	Written exam	100%	

Activities Credit conditions	
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Generated: 2024-09-17 01:37 2 / 4

Activities	Credit conditions	
Lecture	Written or on-line exam forms with questions and answers. To pass the course it is required to get 51% from the exam.	

Literature

Obligatory

- 1. Regulation (EC) No 1333/2008 of the European Parliament and of the Council
- 2. Regulation (EC) No 1334/2008 of the European Parliament and of the Council
- 3. Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC

Optional

- 1. Consolidated text: Commission Regulation (EC) No 1881/2006 of 19 December 2006 setting maximum levels for certain contaminants in foodstuffs
- 2. Chemical Contaminants and Residues in Food, A volume in Woodhead Publishing Series in Food Science, Technology and Nutrition, Book, Second Edition, 2017
- 3. Branen, A. L., Davidson, P. M., Salminen, S., & Thorngate, J. (Eds.). (2001). Food additives. CRC Press.
- 4. materials provided from teachers
- 5. scientific articles in the lecture topics

Calculation of ECTS points

Activity form	Activity hours*
Lecture	25
Preparation for the exam	5
Student workload	Hours 30
Number of ECTS points	ECTS 1

^{*} hour means 45 minutes

Generated: 2024-09-17 01:37 3 / 4

Effects

Code	Content	
TN_K1_K02	The graduate is ready to complete professional duties in a socially responsible manner, enterprising, ethical, compatible with the public interest and also with the respect for professional tradition, and for the right to intellectual property protection	
TN_K1_K03	The graduate is ready to take responsibility for the high quality and high pro-health value food production, meeting the quality standards and health safety requirements	
TN_K1_K04	The graduate is ready to responsible performing of professional roles, in it: compliance with the professional ethics and exploring knowledge related to the profession	
TN_K1_U02	The graduate can assess the composition, energy and nutritional value of food products, determine their impact on the growth, development, functioning and health of the body, assess the diet, and nutritional status, and use the obtained results to rationalize the nutrition of individuals and different population groups	
TN_K1_W03	The graduate knows and understands the composition and properties of raw materials, auxiliaries, food additives, and food industry products, the possibilities and conditions of use of them in food production, taking into account the principles of sustainable development and their impact on human health	

Generated: 2024-09-17 01:37 4 / 4