

## Product development with packaging and safety aspects – blending course Educational subject description sheet

#### **Basic information**

Field of study

Course Offer for exchange students - first degree studies (BA programmes)

**Speciality** 

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Organizational unit

Course Offer for exchange students

Study level

first degree studies (BA programmes)

Study form

full-time studies

**Education profile** 

General academic

**Didactic cycle** 

2024/25

Subject code

PWMPWM1S D.A100000P.06394.24

**Lecture languages** 

english

Mandatory

Elective subjects

**Block** 

Basic subjects

**Disciplines** 

Food technology and nutrition

Coordinator	Małgorzata Nowacka, Katarzyna Samborska	
Teacher	Małgorzata Nowacka, Katarzyna Samborska	

Period Winter semester	Examination Exam	Number of ECTS points
	Activities and hours Lecture: 29 Auditorium exercises: 1	

### Goals

Code	Goal
C1	The aim of the course is to broaden students' knowledge about product development, food safety and quality, nutritional value, sensory evaluation, packaging (regulation for food contact materials, safety of the packaging, the sustainability of food packaging, bio-based materials used for packaging, innovations in food packaging technologies, production of biopolymers, new types of packaging from by-products, new types of packaging components - bacterial cellulose, novel packaging - smart and active packaging, ecodesign of food packaging, theoretical aspects of packaging dependence shelf life).

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# **Entry requirements**

Subject's learning outcomes

Code	Outcomes in terms of	Effects	<b>Examination methods</b>
Knowle	Knowledge - Student knows and understands:		
W1	in-depth properties of raw materials, auxiliaries and food industry products and their ingredients, useful in planning and organizing food production, as well as in storage (food materials and packaging) and food distribution		Test (written or computer based)
Skills -	Student can:		·
U1	communicate effectively on specialist topics with diverse audiences, participate and conduct debates on professional issues, use a foreign language at the B2+ level of the Common European Framework of Reference for Languages in the field of food packaging and testing of materials intended for contact with food		Test (written or computer based)
Social c	ompetences - Student is ready to:		<u>'</u>
K1	is aware and understands the need for development in the field issues of the broadly understood food economy, he understands also the constant need to improve their professional qualifications in the development of innovative food products		Test (written or computer based)

## Study content

No.	Course content	Subject's learning outcomes	Activities
1.	Product development, food safety and quality, nutritional value, sensory evaluation, packaging (regulation for food contact materials, safety of the packaging, the sustainability of food packaging, biobased materials used for packaging, innovations in food packaging technologies, production of biopolymers, new types of packaging from byproducts, new types of packaging components bacterial cellulose, novel packaging - smart and active packaging, ecodesign of food packaging, theoretical aspects of packaging dependence shelf life).	W1, U1, K1	Lecture, Auditorium exercises

### **Course advanced**

Activities	Methods of conducting classes	
Lecture	E-learning - lecture part	
Auditorium exercises	E-learning - exercises part	

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Activities	Examination method	Percentage
Lecture	Test (written or computer based)	80%
Auditorium exercises	Test (written or computer based)	20%

Activities	Credit conditions	
Lecture	Test	
Auditorium exercises	Test	

### Literature

### **Obligatory**

- 1. Brody, A. L., & Lord, J. B. (Eds.). (2007). Developing new food products for a changing marketplace. CRC Press.
- 2. Martins V.G., Romani V.P., Martins P.C., Filipini G.D.S. (2019). Chapter 6 Innovative packaging that saves food. In Saving Food: Production, Supply Chain, Food Waste and Food Consumption Ed. C.M. Galanakis, Academic Press, https://doi.org/10.1016/B978-0-12-815357-4.00006-7
- 3. Codex Alimentarius GENERAL PRINCIPLES OF FOOD HYGIENE

### **Calculation of ECTS points**

Activity form	Activity hours*
Lecture	29
Auditorium exercises	1
Preparation for the test	70
Student workload	Hours 100
Number of ECTS points	ECTS 4

<sup>\*</sup> hour means 45 minutes

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