

Calea Mănăștur 3-5, 400372, Cluj-Napoca Tel: 0264-596.384, Fax: 0264-593.792

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\_of \_ No.\_\_\_\_\_

## USAMV form 0704010214

#### SUBJECT OUTLINE

#### **<u>1. Information on the programme</u>**

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Faculty of Food Science and Technology
1.3. Department	Food Engineering
1.4. Field of study	Food Engineering
1.5.Education level	Post graduate
1.6.Specialization/ Study programme	Food Quality Management (English)
1.7. Form of education	Full time

#### 2. Information on the discipline

2.1. Name of the discipline Product Properties and Consumer Needs									
2.2. Course coordinator Vlad Mureşan, PhD, habil., Associate Professor									
2.3. Seminar/ laboratory/ project coordinator			Vlad Mureşan, PhD, habil., Associate Professor						
2.4. Year of study	Ι	2.5. Semester	Π		JI		2.7. Content <sup>2</sup>	Content <sup>2</sup>	DS
				eva	luation	continuous	Discipline status	Compulsoriness 3	DI

#### 3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	3	out of which: 3.2. lecture	2	3.3. seminar/ laboratory/ project	1
3.4. Total number of hours in the curriculum	42	Out of which: 3.5.lecture	28	3.6.seminar/laboratory	14
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes				10	
3.4.2. Additional documentation in the library, specialized electronic platforms and field				33	
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays				30	
3.4.4. Tutorials				5	
3.4.5. Examinations				5	
3.4.6. Other activities					
3.7. Total hours of individual study	83				-
3.8. Total hours per semester	125				
<b>3.9.</b> Number of credits <sup>4</sup>	5	]			

#### 4. Prerequisites (is applicable)

4.1. curriculum-related	Knowledge of: Food science and engineering principles, Food industry chain basics
4.2. skills-related	Certificate of linguistic competence (English)
	Identification, description and appropriate use of specific notions of food science and
	technology



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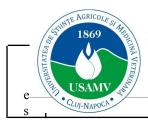
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#### 5. Conditions (if applicable)

5.1. for the lecture	The course is interactive, students can ask questions regarding the content of lecture. Academic discipline requires compliance with the start and end of the course. We do not allow any other activities during the lecture, mobile phones will be turned off.
5.2. for the seminar/ laboratory/ project	During practical works, each student will develop an individual activity with laboratory materials (made available in the book that describes the laboratory work). Academic discipline is imposed throughout the course of practical works.

#### 6. Specific competences acquired

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a	C 6.1 Understand the principles for designing new products in the food industry
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# 7. Course objectives (based on the list of competences acquired)

7.1. Overall course objective	Is to know, use and understand the multidisciplinary field of product properties and consumer needs specific to food industry
7.2. Specific objectives	Knowledge of food products properties and reasons for new product development in relation with consumers needs Explain and exemplify the principles of consumer behaviour and research Learning the conceptual framework and the importance of the need for continuous new food product development Mastering the Quality Function Deployment (QFD), laddering techniques, in-depth interviewing, focus groups, surveys, compositional perceptual mapping Fostering active participation of master students

### 8. Content

	.LECTURE Imber of hours – 28	Teaching methods	Notes	
1.	Food products properties. Reasons for new product development. Life Cycle Assessment (LCA): what is it and why is it relevant in food product design?	Lectures, heuristic conversation, Explanation, debate	2 lectures	
2.	Principles of consumer behaviour and research	Lectures, heuristic conversation, Explanation, debate	2 lectures	
3.	The need for continuous new food product development	Lectures, heuristic conversation, Explanation, debate	1 lecture	
4.	Stages of the new product development process. Relevant concepts and methods	Lectures, heuristic conversation, Explanation, debate	2 lectures	
5.	Quality Function Deployment (QFD) and laddering techniques in the early stages of new product development - the "voice of the customer"	Lectures, heuristic conversation, Explanation, debate	3 lectures	
6.	In-depth interviewing, focus groups, surveys, compositional perceptual mapping	Lectures, heuristic conversation, Explanation, debate	2 lectures	
7.	New product concepts.	Lectures, heuristic conversation, Explanation, debate	1 lecture	
8.	Consumer-oriented food products design.	Lectures, heuristic conversation, Explanation, debate	1 lecture	

8.2. PRACTICAL WORK		Notes	
Number of hours – 14	Teaching methods		
1. Consumer profiles.	Case study, simulation of situations, methods of group work	1 lab work	

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2.	of consumer wants	www.usamvcluj.ro Case study, simulation of situations, methods of group	1 lab work
3.	Product function and generation of ideas	work Case study, simulation of situations, methods of group work	1 lab work
ŀ.	Creativity templates. Subtraction. Multiplication. Division. Task unification. Attribute dependency change	Case study, simulation of situations, methods of group work	1 lab work
5.	Case study: Food trends – health, sustainability, authenticity	Case study, simulation of situations, methods of group work	2 lab works
ó.	Recent methodologies for combining sensory and extrinsic product properties in consumer studies	Case study, simulation of situations, methods of group work	1 lab work
Co.	mpulsory bibliography: Edwin Zondervan, Cristhian Almeida-Rivera, Kyle Vincent Ca Enterprise. Walter de Gruyter Anita R. Linnemann, Catharina G. P. H. Schroen, Martinus A Approach. Wageningen Academic Publishers; Revised Editio	. J. S. Van Boekel (2011) Food Produ	
	ional bibliography: Grzegorz Maciejewski, Sylwia Mokrysz and Łukasz Wróblew producers. Wageningen Academic Publishers. eISBN: 978-9 <u>https://doi.org/10.3920/978-90-8686-905-3</u>	0-8686-905-3   ISBN: 978-90-8686-3	52-5
2. 3. 4.	Klaus G. Grunert (2017). Consumer trends and new product eISBN: 978-90-8686-852-0   ISBN: 978-90-8686-307-5 <u>https</u> Leanne W.S. Loijens (2017). Augmented reality for food man 978-90-8686-842-1   ISBN: 978-90-8686-299-3 <u>https://doi.or</u> Daniele Asioli, Paula Varela, Margrethe Hersleth, Valerie Ler recent methodologies for combining sensory and extrinsic pr	://doi.org/10.3920/978-90-8686-852-( keters and consumers. Wageningen / g/10.3920/978-90-8686-842-1 ngard Almli, Nina Veflen Olsen, Tormo	2 Academic Publishers. eISBN: od Næs,(2017). A discussion of

# 9. Corroborating the course content with the expectations of the epistemic community representatives, of the professional associations and of the relevant stakeholders in the corresponding field

Volume 56, Part B, Pages 266-273, ISSN 0950-3293, https://doi.org/10.1016/i.foodgual.2016.03.015.

The content of the discipline is in line with the demands of the specific national professional associations. In order to identify ways of modernization and continuous improvement of the teaching and content of the courses, with the most current themes and practical problems, the teachers participate at the annual meeting of the Association of Food Industry Specialists in Romania, where they meet with the food industry specialists from the private environment and the teaching staff from other higher education institutions in the country. Meetings aim at identifying the needs and expectations of employers in the field and coordinating with other similar programs within other higher education institutions

#### 10. Assessment

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Type of activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade
10.4. Lecture	Assessing specific aspects of product properties and consumer needs	Presenting and submitting an individual project	75%



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		predetermined topics	study			
10.6. Minimum performance standards						
Knowledge of the food products properties and reasons for new product development in relation with consumers needs,						
as well as realizing an individual project based on the choice of Quality Function Deployment, laddering techniques,						

in-depth interviewing, focus groups, surveys, compositional perceptual mapping. The assessment of the knowledge and skills acquired by students is carried out in accordance with Article 144 (3) of the National Education Law, by full notes from 10 to 1, note 5 certifying the achievement of the minimum competences related to the discipline and passing the examination.

<sup>1</sup> Level of study- to be chosen one of the following - Bachelor/Post graduate/Doctoral

<sup>2</sup> Course regime (content) – for bachelor level it will be chosen one of the following - **DF** (fundamental

subject), **DD** (subject in the domain), **DS** (specific subject), **DC** (complementary subject).

<sup>3</sup> Course regime (compulsory level) - to be chosen one of the following - **DI** (compulsory subject), **DO** (optional subject), **DFac** (facultative subject)

<sup>4</sup> One ECTS is equivalent with 25-30 de hours of study (didactical and individual study).

Filled in on 10.09.2021

Course coordinator Vlad Mureşan, PhD, habil., Associate Professor

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Laboratory work/seminar coordinator Vlad Mureşan, PhD, habil., Associate Professor

Subject coordinator Vlad Mureşan, PhD, habil., Associate Professor

Head of the Department Sevastita Muste, PhD Professor

Dean Elena Mudura, PhD Professor

Approved by the Faculty Council on 28.09.2021

Approved by the

Department on 22.09.2021