

UNIVERSITATEA DE ȘTIINȚE AGRICOLE ȘI MEDICINĂ VETERINARĂ CLUJ-NAPOCA

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

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Nr.	din	

USAMV form 0703040217

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary-Medicine Cluj-Napoca
1.2. Faculty	Food Science and Technology
1.3. Department	Food Engineering
1.4. Field of study	Food Engineering
1.5.Cycle of study ¹	Level 1. Bachelor
1.6. Specialization/ Study programme	Food Engineering
1.7. Form of education	Regular studies

2. Information on the discipline

2.1. Name of the discipline	DESIGN OF NEW PRODUCTS						
2.2. Course coordinator	Associate professor PhD. Mirela Jimborean						
2.3. Seminar/ laboratory/	Assistant	Assistant PhD. Delia Michiu					
2.4. Year of study IV	2.5. Semester	VIII	2.6. Type of		2.7. Discipline	Content ²	DS
			evaluation	Exam	status	Compulsorine	CD
						ss ³	CD

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	2	Out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	1
3.4. Total number of hours in the curriculum	28	Out of which: 3.5.lecture	14	3.6. seminar/laboratory	14
Distribution of the time allotted					Hours
3.4.1. Study based on book, textbook, bibliography and notes					7
3.4.2. Additional documentation in the library, specialized electronic platforms and field				5	
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays				4	
3.4.4. Tutorials				2	
3.4.5. Examinations				4	
3.4.6. Other activities				Hours	
3.7. Total hours of individual study 22					

3.7. Total hours of individual study	22
3.8. Total hours per semester	50
3.9. Number of credits ⁴	2

4. Prerequisites (is applicable)

4.1. curriculum-related	Processing Technology of Animal Products, Vegetable Products Processing Technology, Packaging, Labelling and Design in Food Industry
4.2. skills-related	Identification, description and appropriate use of specific concepts of food science Understanding the Basics by-products resulting from major food technologies and direction of
	recovery

5. Conditions (if applicable)

5.1. for the lecture	Video, ppt presentation.
5.2. for the seminar/ laboratory/	Pilot Station, raw materials and auxiliary technological schemes
project	r not Station, faw materials and auxinary technological schemes



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6. Specific competences acquired

Professional competences	C3.1. Description and use of basic concepts, theories and methods regarding technologies in the food industry C5.1. Identification of specialized terminology regarding the quality, standards and hygiene of food products in order to collaborate and cooperate with the responsible institutions in the field of food quality and safety 3-5. Development of projects related to technologies and specific products of the milk and dairy industry
Transversal competences	CT1. Application of strategies of perseverance, rigor, efficiency and responsibility in work, punctuality and assuming responsibility for the results of personal activities, creativity, common sense, analytical and critical thinking, problem solving etc., based on the principles, norms and values of the code of professional ethics in the food industry.

7. Course objectives (based on the list of competences acquired)

7.1. Overall course objective	New product development, mastery of techniques for scientific elaboration of new products Knowledge of the new product concept, mastering specific terms and interdisciplinary notions.
7.2. Specific objectives	Formation of students' creative skills Developing effective marketing skills and promoting a new product in a particular market Writing materials for institutions responsible for food quality

8. Content

8.1. LECTURE	Teaching methods	Notes
Number of hours		
The new product concept.	Lecture, heuristic	2 hours
Elements of a new product characterization.	conversation, explanation	
The importance and necessity of the emergence of new		
products in the food industry.		
Product life cycle. Launch of new products. Market	Lecture, heuristic	2 hours
research. Consumer profile	conversation, explanation	
The specifics of food consumption and consumer	Lecture, heuristic	2 hours
preferences to purchase and consumption.	conversation, explanation	
Elements of psychology in the creative process		
The stages of a new product development.	Lecture, heuristic	4 hours
The role of research in products production demanded by	conversation, explanation	
the market.		
The cost of a new product		
Intellectual property		2 hours
Institutions for patenting inventions		
Launch and promotion principles		2 hours
Commercial		
8.2. PRACTICAL WORK		
Number of hours –		
Stages for project realization		4 hours
Product concept development and testing	Practical demonstration,	
Product design	observation	
Choice of technology used in the project realization and	Case studies.	2 hours
description of the technological scheme	Promoting team spirit and	
Marketing planning strategies	creation concept.	2 hours
Observation, survey and testing of product at the level of	1	2 hours
consumer impact		
Presentation of a new product project	Presentation, discussions	4 hours

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Compulsory bibliography:

- . Banu, C. și colab., 1999, Manualul inginerului de industrie alimentară, Vol. II, Editura Tehnică, Bucuresti.
- 2. Banu, C și colab.,1998, Manualul inginerului de industrie alimentară, vol. I, Editura Tehnică, Bucuresti.
- 3. Blyth, J., 1998 "Comportamentul consumatorului", Editura Teora, București.
- 4. Mirela Jimborean, 2019, Ambalarea, etichetarea și designul în industria alimentară, Ed. Mega, Cluj-Napoca;
- 5. Malcomete, P., 1987 "Strategii de marketing", Editura Junimea, Iași.
- 6. Nicolescu, O., (coordonator) 1996 "Strategii manageriale de firmă", Editura Economică, București.
- 7. Stoica Maricica, Petru Alexe, 2016, "Elemente de proiectare a produselor alimentare noi". Ed. Academica, Galați
- 8. Turtoi, M., 2004 "Tehnici de ambalare a produselor alimentare", Editura Academica, București.

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

Course content is consistent with national professional associations specific applications

10. Assessment

Type of activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade
10.4. Lecture	The logical, coherent and correct		25%
	acquisition of the notions of new	Exam	
	products design		
10.5. Seminar/Laboratory	Logical, coherence and correct		75%
	application of the acquired notions	Project presentation	
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10.6. Minimum performance standards

Elaboration of a project related to technological processes specific in food industry.

Knowledge of the main operations and brief description in the field of food industry.

Writing materials for institutions responsible for food quality (flow chart).

Course coordinator
Associate professor PhD Mirela Jimborean

Laboratory work/seminar coordinator
Assistant PhD. Delia Michiu

Filled in on 10.09.2021

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Subject coordinator Associate professor PhD Mirela Jimborean

Approved by the Department on

Head of the Department Professor PhD. Sevastiţa Muste

Approved by the Faculty Council on

Dean Prof. dr. Elena Mudura

Cycle of studies- choose of the three options: Bachelor/Master/PhD.

² Discipline status (content)- for the undergraduate level, choose one of the options:- **FD** (fundamental discipline), **BD** (Basic discipline), **CS** (specific disciplines-clinical sciences), **AP** (specific disciplines-animal production), **FH** (specific disciplines-food hygiene), **UO** (disciplines based on the university's options).

³ Discipline status (compulsoriness)- choose one of the options – CD (compulsory discipline) OD (optional discipline) ED (elective discipline).

⁴ One credit is equivalent to 25-30 hours of study (teaching activities and individual study).