

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

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No.	of	
INO.	OI	

#### USAMV form CN-0703030108

### SUBJECT OUTLINE

1. Information on the programme

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	Bachelor
1.6.Specialization/ Study programme	Food Engineering (IPA)
1.7. Form of education	Full time

2. Information on the discipline

zi imormation on the disciplin							
2.1. Name of the discipline	Specialty p	ractice	<b>;</b>				
2.2. Course coordinator							
2.3. Seminar/ laboratory/ projection	ct coordinator	r	Borşa An	drei, PhD, Ass	ist.		
2.4. Year of study II 2	5. Semester	V	2.6. Type of		2.7.	Content <sup>2</sup>	DS
			evaluation	continuous	Discipline status	Compulsoriness <sup>3</sup>	DI
7 1 7		V	2.6. Type of		2.7. Discipline		

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

3.1. Hours per week – full time programme	2.14	out of which: 3.2.	-	3.3. seminar/ laboratory/ project	2.14
1 8		Out of which: 3.5. lecture	-	3.6.seminar/laboratory	30
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes					15
3.4.2. Additional documentation in the library, specialized electronic platforms and field					2
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays				5	
3.4.4.Tutorials				3	
3.4.5.Examinations				2	
3.4.6. Other activities				3	
				•	

3.7. Total hours of individual study	30
3.8. Total hours per semester	60
3.9. Number of credits <sup>4</sup>	2

**4. Prerequisites** (is applicable)

4.1. curriculum-related	Operations and machinery in the food industry, raw vegetable and animal materials
4.2. skills-related	The student must have general knowledge of food engineering

**5. Conditions** (if applicable)

5.1. for the lecture	During practical activities, the students will present themselves in the pilot stations
	or at the economic agents in the scheduled period with the results of the medical



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	analyzes according to the sanitary-veterinary norms in force and will carry out activities with the raw and auxiliary materials provided. The use of protective equipment such as a robe and cap is mandatory during practical activities.
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

Professional competences	C3.1. Describe and use basic concepts, theories and methods of agri-food technologies C3.2. Explain and interpret the principles and methods used in technological processes in the food chain
Transversal competences	CT1 Apply strategies of perseverance, rigor, efficiency and responsibility at work, punctuality and taking responsibility for the results of personal activity, 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 field CT3 Efficient use of various ways and techniques of learning - training for the acquisition of bibliographic and electronic database information both in Romanian and in an international language, as well as assessing the need and usefulness of extrinsic and intrinsic motivations of continuing education

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

7. Course objectives (based on the	list of competences acquired)	
7.1. Overall course objective	To ensure the consolidation of the theoretical knowledge and the development	
	of the communication and organization skills of the graduate of the bachelor	
	cycle in accordance with the principles of food technologies, to solve	
	engineering and technological problems and to facilitate their insertion on the	
	labor market.	
7.2. Specific objectives	To acquire the knowledge regarding the legislation in force and the instructions	
	for safety and health at work specific to the food practice	
	To understand the role and the way of organization, development and evaluation	
	of the internship and to use efficiently and planned the various ways and	
	techniques of learning	
	To be cabable of self assessment in order to identify a job complementary to	
	personal skills / needs and be able to correctly prepare a CV specific to the jobto	
	identify a job complementary to personal skills / needs and be able to correctly	
	prepare a CV specific to the job	
	To acquire the knowledge regarding the content of the job description, to	
	understand the tasks deriving from it, the necessary key competencies and the	
	division of the compartments in a company according to them.	
	To acquire general knowledge regarding the management of production	
	processes, production quality management and human resources management	
	and interrelationship techniques within the team	

### 8. Content

8.1.LECTURE	Teaching methods	Notes
Number of hours –	-	-

8.2. PRACTICAL WORK Number of hours 60:	Theoretical presentation of practical works	
Technological practice in a profile unit (practice in individual system) - documentation for the diploma project or in a pilot station (in groups of maximum 5 students)		15 practical works = 30 hours
Unit description: name, address, history, field of	Observation, explanation,	1/2 laboratory work = 1 hour



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activity, production capacity, production profile	conversation,	
(assortment structure / product groups), unit structure	problematization	
(productive and non-productive technological spaces,		
auxiliary spaces), unit compartmentalization		
Description of the general and detailed technological	Observation, explanation,	1/2 laboratory work = 1 hour
flow of manufacturing the products in the unit	conversation,	j
	problematization	
Description of raw materials used in production (name,	Explanation, conversation,	1/2 laboratory work = 1 hour
composition, action, method of use, dosage)	problematization, case study	
Description of operations specific to the technological	Observation, explanation,	1/2 laboratory work = 1 hour
flow of manufacturing of various product groups.	conversation,	, , , , , , , , , , , , , , , , , , , ,
	problematization	
Accomplishment of technological schemes (by	Explanation, conversation,	1/2 laboratory work = 1 hour
assortment groups) and establishment of technological	problematization, case study	1/2 1400141015 11041
manufacturing recipes (by assortments)	problematization, case study	
Description of machines used in processing.	Explanation, conversation,	1/2 laboratory work = 1 hour
Comparative analysis with existing technologies:	problematization, case study	1/2 1400141011/ 1/ 1/1041
presentation of technological alternatives in the literature	problematization, case study	
Preparation of the balance of materials on the operations	Explanation, conversation,	1 laboratory work = 2 hours
of the technological flow of manufacturing of various	problematization, case study	1 laboratory work = 2 hours
products.	problematization, case study	
Determination of specific consumption of raw materials	Explanation, conversation,	1 laboratory work = 2 hours
in the manufacture of various products	problematization, case study	1 laboratory work = 2 hours
Drawing up a sketch of the production section with the	Observation, explanation,	1 laboratory work = 2 hours
location of the equipment.	conversation	1 laboratory work = 2 flours
rocation of the equipment.	problematization, case study	
Description of the daily activities carried out in the	Observation, conversation	1 laboratory work = 2 hours
respective unit	Observation, conversation	1 laboratory work = 2 flours
SWOT analysis regarding the activity carried out in the	Explanation, conversation,	1 laboratory work = 2 hours
respective unit.	problematization, case study	1 laboratory work = 2 hours
Analysis and preparation of the job description	Explanation, case study	1/2 laboratory work = 1 hour
Analysis and writing of their CV	Explanation, case study  Explanation, case study	1/2 laboratory work = 1 hour
Analysis and writing of their CV	problematization	1/2 laboratory work = 1 flour
Time management, tools for afficiency		1 laboratory work = 2 hours
Time management - tools for efficiency		1 laboratory work = 2 hours
Harmon management in facility Transport	problematization	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Human resources management in food units - Teamwork	Explanation, case study	1 laboratory work = 2 hours
and interrelationship through assertiveness	problematization	1.1.1
Production management - types and methods of	Explanation, case study	1 laboratory work = 2 hours
production planning	problematization	111
Quality management - principles and implementation	Explanation, case study	1 laboratory work = 2 hours
techniques	problematization	
Individual project - Case study	Assisted presentation	2 project sessions = 4 hours
Compulsory hibliography:		

Compulsory bibliography:

Manualul inginerului de industrie alimentară, vol. I, Editura Tehnica, 2000

Manualul inginerului de industrie alimentară, vol. II, Editura Tehnica, 2002

#### Optional bibliography:

- Mirela Jimborean și Dorin Țibulcă, (2013), *Tehnologia produselor lactate îndrumător de lucrări practice*, Editura Risoprint, Cluj-Napoca;
- Păucean Adriana, Man, Simona, (2018), Procedarea în industria morăritului și panifcației, Ed. Mega Cluj-Napoca;
- Sălăgean, D. și Tibulcă, D., (2009), Tehnologia produselor din carne, Ed. Risoprint, Cluj-Napoca;
- Sãlãgean, D. și Țibulcã, D., (2010), *Tehnologia cărnii și a produselor din carne* îndrumător de lucrări practice, Ed. Risoprint
- Țibulcã, D. și Sãlãgean, D., (2011), *Tehnologia si controlul calitatii pe fluxul tehnologic de fabricatie a produselor din carne*, Ed. Risoprint, Cluj-Napoca.
- Ţibulcã, D. şi Jimborean Mirela, (2008), Tehnologia de obţinere a produselor lactate, Editura Risoprint, Cluj-Napoca;



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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

The content of the discipline is in accordance with the requests of specific national professional associations

#### 10. Assessment

10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade
-	-	
Continuous assessment	Activity evaluation form	50%
Final assessment	Practice colloquium in which	50%
	the practice documents	
	presented by the student and	
	the presentation of the skills	
	and knowledge acquired by	
	him will be analyzed	
	- Continuous assessment	Continuous assessment  Activity evaluation form  Final assessment  Practice colloquium in which the practice documents presented by the student and the presentation of the skills and knowledge acquired by

#### 10.6. Minimum performance standards

Integral development of the technological practice activity and completion of the practice documents

Description of the equipment and operations corresponding to the products manufactured in the profile unit

- Education levels- choose of the three options: Bachelor/\* Master/Ph.D.
- <sup>2</sup> 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).
- Discipline status (compulsoriness)- choose one of the options **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).
- One credit is equivalent to 25-30 hours of study (teaching activities and individual study).
- <sup>5/\*</sup> Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis

		Laboratory work/seminar coordinator
Filled in on	Course coordinator	Borşa Andrei, PhD, Assist.
10.09.2021		1
		11/ 50

Subject coordinator Borșa Andrei, PhD, Assist.

Approved by the Department on 22.09.2021

Head of the Department Sevastiţa Muste PhD, Professor

Approved by the Faculty
Council on
28.09.2021

Dean
Elena Mudura PhD, Professor