

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

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No.	of	
NO.	()1	

USAMV form CN-0701030108

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	Technology of Agricultural Products Processing (TPPA)
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the		Specialty practic	ce					
discipline								
2.2. Course coordinat	or							
2.3. Seminar/ laborate	ory/ pi	roject coordinate	or	Borșa	Andrei, PhD,	Lecturer		
2.4. Year of study	III	2.5. Semester	V	2.6. Type	of	2.7.	Content ²	DS
				evaluation	continuo	us Discipline status	Compulsoriness ³	DI

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time	2.14	out of which: 3.2.	_	3.3. seminar/ laboratory/	2.14
programme	2.17	lecture		project	2.17
3.4.Total number of hours in the	30	Out of which: 3.5.	_	3.6.seminar/laboratory	30
curriculum	30	lecture	_	3.0.sellillar/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				4	
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays			10		
3.4.4.Tutorials			6		
3.4.5.Examinations				4	
3.4.6. Other activities				6	
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3.7. Total hours of individual study	45
3.8. Total hours per semester	75
3.9. Number of credits ⁴	3

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
	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/	During practical works, each student will develop an individual activity with



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project	laboratory materials (made available in the book that describes the laboratory
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	work). Academic discipline is imposed throughout the course of practical works.
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6. Specific competences acquired

Professional competences	C2.2 Explain and interpret basic engineering concepts, methods and models in equipment exploitation issues in the agri-food industry 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)

7.1. 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

Number of hours –	-	-
9.2 DDACTICAL WODE	The custical museum tation of	
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)		6 practical works = 12 hours
Unit description: name, address, history, field of activity, production capacity, production profile (assortment structure / product groups), unit structure (productive and non-productive technological spaces,	Observation, explanation, conversation, problematization	1/2 laboratory work = 1 hour

Teaching methods

Notes



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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,	
	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	
manufacturing recipes (by assortments)		
Description of machines used in processing.	Explanation, conversation,	1/2 laboratory work = 1 hour
Comparative analysis with existing technologies:	problematization, case study	
presentation of technological alternatives in the literature		
Preparation of the balance of materials on the operations	Explanation, conversation,	1/2 laboratory work = 1 hou
of the technological flow of manufacturing of various	problematization, case study	
products.		
Determination of specific consumption of raw materials	Explanation, conversation,	1/2 laboratory work = 1 hou
in the manufacture of various products	problematization, case study	
Drawing up a sketch of the production section with the	Observation, explanation,	1/2 laboratory work = 1 hour
location of the equipment.	conversation	
	problematization, case study	
Description of the daily activities carried out in the	Observation, conversation	1/2 laboratory work = 1 hour
respective unit		
SWOT analysis regarding the activity carried out in the	Explanation, conversation,	1/2 laboratory work = 1 hour
respective unit.	problematization, case study	
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	1/2 laboratory work = 1 hour
	problematization	
Time management - tools for efficiency	Explanation, case study	1/2 laboratory work = 1 hour
	problematization	
Human resources management in food units - Teamwork	Explanation, case study	1/2 laboratory work = 1 hour
and interrelationship through assertiveness	problematization	-
Production management - types and methods of	Explanation, case study	1/2 laboratory work = 1 hour
production planning	problematization	-
Quality management - principles and implementation	Explanation, case study	1/2 laboratory work = 1 hou
techniques	problematization	
Individual project - Case study	Assisted presentation	1/2 laboratory work = 1 hou
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;
- Sãlãgean, D. și Țibulcã, 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.
- Țibulcã, D. și Jimborean Mirela, (2008), *Tehnologia de obținere a produselor lactate*, Editura Risoprint, Cluj-Napoca;

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



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

10. Assessment

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

- Level of study- to be chosen one of the following Bachelor/Post graduate/Doctoral
- 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).
- Course regime (compulsory level) to be chosen one of the following DI (compulsory subject), DO (optional subject), **DFac** (facultative subject)
- One ECTS is equivalent with 25-30 de hours of study (didactical and individual study).

Laboratory work/seminar coordinator Filled in on Course coordinator Borsa Andrei, PhD, Lecturer 06.09.2021

Subject coordinator

Mirela Jimborean, PhD, Assoc. Proffesor

Approved by the **Department on** 22.09.2021

Head of the Department Sevastița Muste PhD, Professor

Approved by the Faculty Council on 28.09.2021

Dean Elena Mudura PhD, Professor