

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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No.	of

USAMV form CN-0703040113

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

2.1. Name of the discipline	Practice for the	e dip	loma projec	et			
2.2. Course coordinator							
2.3. Seminar/ laboratory/ project	coordinator		Borșa An	drei, PhD, Ass	ist.		
2.4. Year of study IV 2.5.	Semester VIII	2.6	5. Type of		2.7.	Content ²	DS
		AV	aluation	continuous	Discipline		
			aruation	Continuous	1	Compulsoriness ³	DI
					status	1	

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	4.28	out of which: 3.2. lecture	-	3.3. seminar/ laboratory/ project	4.28
3.4.Total number of hours in the curriculum	60	Out of which: 3.5.lecture	-	3.6.seminar/laboratory	60
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes				20	
3.4.2. Additional documentation in the library, specialized electronic platforms and field				20	
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				0	
2 7 7 4 11 6 1 1 1 1 4 1					

3.7. Total hours of individual study	60
3.8. Total hours per semester	120
3.9. Number of credits ⁴	4

4. Prerequisites (is applicable)

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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)

e: 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 protecti			
	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			
project	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	C2.3. Application of basic engineering principles and methods for solving technological problems in the agrifood chain and for the design of new food products C3.2. Explain and interpret the principles and methods used in technological processes in the food chain C3.3 Monitor and control technological processes in the food industry, identify abnormal situations and propose solutions
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 for the elaboration of the Bachelor Diploma and to use efficiently and planned the various ways and techniques of learning To acquire general knowledge regarding the management of production processes and the management of production quality.

8. Content

o. Content	Tr 1. ' 1.	Minim
8.1.LECTURE	Teaching methods	Notes
Number of hours –	-	-
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8.2. PRACTICAL WORK	Theoretical presentation of	1 lab work
Number of hours –120:	practical works	(2 hours / work)
Technological practice in individual system in a profile unit or in a pilot station - documentation for the diploma project		30 individual practical works = 60 hours
Opportunity and justification of the chosen topic	Explanation, conversation	4 seminars = 8 hours
Documentary study	Explanation, conversation	4 seminars = 8 hours
The final choice of technological manufacturing	Explanation, problematization	4 seminars = 8 hours
schemes with detailing the parameters	conversation, case study	
Technological calculation	Explanation, problematization conversation, case study	4 seminars = 8 hours
Equipment calculation	Explanation, conversation	5 seminars = 10 hours
Quality and hygiene management in the designed	Explanation, problematization	4 seminars = 8 hours
section	conversation, case study	
The graphic part (at least the sketch of the designed	Explanation, conversation	5 seminars = 10 hours
section and the sketch of its general location; scores are	_	



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awarded additional for all utility diagrams, diagram		
operations, equipment schedule, equipment		
representations and so on)		
Compulsory bibliography:		
All subjects in the curriculum are specific to the chosen top	oic.	
Technology-specific guidance / design notes.		
Optional bibliography:		
C. Banu ș.a- Manualul inginerului de industrie alimentară,	Editura Tehnică, vol. I și II	

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. Hobedoment			
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	Observance of working procedures,	Presentation of the results	100%
	verification of results	related to the license project	
10.6. Minimum performance standards			

Completion of experimental activities related to the bachelor project.

Filled in on Course coordinator
10.09.2021

Course coordinator
Borşa Andrei PhD. Assist.

Subject coordinator Borşa Andrei, PhD, Assist.

Approved by the Department on 22.09.2021

Head of the Department Professor Sevastiţa Muste PhD,

Approved by the Faculty Council on 28.09.2021

Dean Professor Elena Mudura PhD,

Education levels- choose of the three options: Bachelor * Master/Ph.D.

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).

^{5/*} Disciplines: AK- Advanced knowledge, CT- Complementary Training, S- Synthesis