

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

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No	from	

Form code USAMV-CN-0701040216

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. Study field	Food Engineering
1.5. Level field ¹⁾	Level 1.Bachelor
1.6. Specialization/ Study Program	Technology of Agricultural Products Processing
1.7. Form of education	IF

2. Information on the discipline

2.1. Name of the cours	se	Food safety an	d secu	rity					
2.2. Course leader			Assoc. Pr	of. PhD. Mur	eşan Crina				
2.3. Coordinator of se	mina	ry/laboratory			Lectures	PhD. Marc R	omina		
activity/project		,						,	
2.4. Year of study		2.5. Semester		2.6	o. Type of		2.7. Course	Content ²	DD
	IV		VII	eva	aluation	continue	regime	Y 1 0	D.O.
						Continue	Ü	Level of	DO
								compulsory 3	

3. Total estimated time (teaching hours per semester)

3.1. Number of hours/week – frequency form	3	of which : 3.2. course	2	3.3. seminary/ laboratory/ project	1
3.4. Total hours in the curricula	42	of which: 3.5.course	28	3.6.seminary/laboratory	14
Distribution of time					Hours
3.4.1. Study based on handbook, notes, bibliography					8
3.4.2. Extra documentation in the library, on specific electronic platforms and on field					8
3.4.3. Preparation of seminaries/ laboratories/ projects, themes, papers, portfolies and essays					8
3.4.4.Tutorial					4
3.4.5. Examination					5
3.4.6. Other activities					
3.7. Total hours of individual study 33					

4. Prerequisites (if applicable)

3.8. Total hours per semester

3.9. Number of ECTS⁴

4.1. of curriculum	Biochemistry, Microbiology, General technologies
4.2. of competences	The student must have basic knowledge on chemical composition of food, special notions of
	microbiology, technology of obtaining food.

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5. Conditions (if applicable)

5.1. of course development	Projector, presentation
_	In the case of carrying out didactic activities online, the teaching methods will be
	adapted
5.2. of seminary/laboratory/	Computer, projector, standards



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project development	In the case of carrying out didactic activities online, the teaching methods will be
	adapted

6. Specific competences acquired

Professional competences	C5.1 Identify the specialized terminology regarding safety management, standards and good practices, in order to collaborate and cooperate with the responsible institutions in the field of food quality and safety. C5.3 Identify the problems specific to safety management and the responsibilities related to solving them.	
Transversal	. CT1.Applying strategies of perseverance, rigor, efficiency and responsibility at work, punctuality and accountability for the results of personal activities, creativity, common sense, analytical and critical thinking, solving matters etc, by principles, norms and values of the professional ethics code in food area.	

7. Subject objectives (as a result of the specific acquired competences)

7.1. Subject general objectives	To a knowledge the information regarding safety measures and food security on	
	the food chain, in order to create safe products.	
7.2. Specific objectives	To understand the importance of safety measures when creating a products, in	
	accordance with the stipulated legislation.	
	To accurately identify the potential dangers during the stages of the food chain	
	To be aquinted with the principles of writing a HACCP plan.	
	To know the steps that are necessary in organizing, implementing and the	
	management of the food safety system.	

8. Contents

8.1.COURSE	Methods of teaching	Observations
Number of hours – 28		
EU reglementation regarding food safety. General	Lecture, Heuristic	1 Lecture
aspects of food security.	conversation, Explanation	
GLP, GMP- registration of documents, and exemples		2 Lectures
		2 Dectares
CD EN ICO 17025 Consul associations		2 Lectures
SR EN ISO 17025- General considerations		
		0.7
HACCP system :General considerations		3 Lectures
The terminology used in the projection and		
implementation of a HACCP system.		
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SR EN ISO 22000;		
The documents of a management system for food safety.		3lectures
	Conversation Explanation	1 lectures
Safety system implementation. Work visit; Case study	Conversation, Explanation	1 lectures
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8.2. PRACTICAL WORK		
Number of hours – 14		
Case study – the projection of HACCP system in a unit	Heuristic conversation,	2 seminars
of obtaining, processing and storage and opening of	working group	



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products that are of animal origin		
Case study – the projection of HACCP system in a unit of obtaining, processing and storage and opening of products that are of vegetal origin	Heuristic conversation, working group	2 seminars
The evaluation of system procedures. The evaluation of work procedures, operational procedures.	Heuristic conversation, working group	2 seminars
Written evaluation		1 seminars

Compulsory Bibliography:

- 1. Muresan Crina 2020-Lecture notes
- 2. Apostu Sorin, 2009, Managementul calității totale, Editura Risoprint Cluj Napoca
- 3. Muresan Crina, Marc Romina, 2021, Siguranta alimentara-trecut si prezent, Editura Risoprint Cluj Napoca

Facultative Bibliography:

- 1. Banu, C., col., 2007, Suveranitate, securitate și siguranță alimentară, Editura ASAB, București
- 2. Banu, C., col., 1998, Manualul inginerului de industrie alimentară, vol. I. Editura Tehnică, București
- 3. Banu, C., col., 1999, Manualul inginerului de industrie alimentară, vol. II. Editura Tehnică, București

9. Correlations between the subject against the expectations of the epistemic community representatives, of the professional associations and employers' representatives in the domain

Course content is consistent with national professional associations specific applications.

10. Evaluation

Type of activity	10.1. Evaluation criteria	10.2. Evaluation methods	10.3. Percent of the final grade
10.4. Course	Knowledge of notions related to GLP, GMP; laboratory management systems/food industry. The structure of specific documents.	Exam	50 %
10.5. Seminary/Laboratory	The ability to develop a documents for the safety management system.	Portfolio overview	50 %

10.6. Minimal standard of performance

Good command of scientific information submitted by lectures and the construction of the portfolio at an acceptable level.

Level of study- to be chosen one of the following - Bachelor/Post graduate/Doctoral

² 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 hours of study (didactical and individual study).



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Course coordinator Assoc. Prof.PhD. Crina Mureșan

Laboratory work/seminar coordinatorLectures PhD Romina Marc

Filled in on 06.09.2021

Subject coordinator

Assoc. Prof.PhD. Mureșan Crina

Approved by the Department on 22.09.2021

Head of the Department Prof. univ. dr. Sevastiţa Muste

Approved by the Faculty Council on

DeanProf. univ. dr. Elena Mudura

28.09.2021