



No _____ from _____

Form code USAMV–CN-0701040215

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 course	Food safety management							
2.2. Course leader	Assoc. Prof. PhD. Mureșan Crina							
2.3. Coordinator of seminary/laboratory activity/project	Lectures PhD Marc Romina							
2.4. Year of study	IV	2.5. Semester	VII	2.6. Type of evaluation	continue	2.7. Course regime	Content ²	DD
							Level of compulsory ³	DO

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 seminars/ laboratories/ projects, themes, papers, portfolios 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				
3.8. Total hours per semester	75				
3.9. Number of ECTS ⁴	3				

4. Prerequisites (if applicable)

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.

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/ project development	Computer, projector, standards 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 competences	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 acknowledge 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 acquainted 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 Number of hours – 28	Methods of teaching	Observations
Food security and sovereigntyGeneral aspects of food security. EU reglementation regarding food safety. Fundamental terminology regarding the management systems; Functions and principles; the stages for implementing a management system; The documents of a management system.	Lecture, Heuristic conversation, Explanation	1 Lectures
.Food contamination: Toxic substances which are normally found in food products; Nitrates and nitrites; Molds that produce toxins;Heavy metals; Pesticides; Chemical waste		2 Lecture
The projection and creation of a HACCP system : The terminology used in the projection and implementation of a HACCP system.		2 Lectures
SR EN ISO 22000;		3 Lectures
Order the management system for food safety; IFS/BRC/SREN ISO 17025		3 Lectures
Documents structure; examples		3 Lectures



8.2. PRACTICAL WORK		
Number of hours – 14		
Case study – the projection of HACCP system in a unit of obtaining, processing and storage and opening of products that are of animal origin	Heuristic conversation, working group	2 seminars
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
<i>Compulsory Bibliography:</i>		
1. Muresan Crina ,2021, Lecture notes		
2. Apostu Sorin, 2009, Managementul calității totale, Editura Risoprint Cluj Napoca		
3. Muresan Crina, Marc Romina, 2021, Siguranța alimentara-trecut si prezent, Editura Risoprint Cluj Napoca		
<i>Facultative Bibliography:</i>		
1. Banu, C., col., 2007, <i>Suveranitate, securitate și siguranță alimentară</i> , Editura ASAB, București		
2. Banu, C. ,col., 1998, <i>Manualul inginerului de industrie alimentară, vol. I</i> . Editura Tehnică, București		
3. Banu, C. ,col., 1999, <i>Manualul inginerului de industrie alimentară, vol. II</i> . 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 HACCP principles; Types of dangers. Software of preliminary measures. Handbook in conformity with SR EN 22000 .	Exam	60 %
10.5. Seminary/Laboratory	The ability to write a HACCP plan; general procedures, work procedures, operational procedures .	Portfolio overview	40 %
10.6. Minimal standard of performance			
Good command of scientific information submitted by lectures and the construction of the portfolio at an acceptable level.			

¹ 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).

³ Course regime (compulsory level) - to be chosen one of the following - **DI** (compulsory subject), **DO** (optional subject), **DFac** (facultative subject)

⁴ One ECTS is equivalent with 25 hours of study (didactical and individual study).



UNIVERSITATEA DE ȘTIINȚE AGRICOLE ȘI MEDICINĂ VETERINARĂ CLUJ-NAPOCA

Calea Mănăstur 3-5, 400372, Cluj-Napoca

Tel: 0264-596.384, Fax: 0264-593.792

www.usamvcluj.ro

Course coordinator

Assoc. Prof.PhD. Crina Mureșan

Laboratory work/seminar coordinator

Lectures 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. Sevastița Muste

Approved by the Faculty
Council on
28.09.2021

Dean

Prof. univ. dr. Elena Mudura