

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

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_of _ No._____

USAMV form 0704010210

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	Post graduate
1.6.Specialization/ Study programme	Food Quality Management (English)
1.7. Form of education	Full time

2. Information on the discipline

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2.1. Name of the discipline		Food Traceab	oility					
2.2. Course coordinat	2.2. Course coordinator Vlad Mureşan, PhD, habil., Associate Professor							
2.3. Seminar/ laboratory/ project coordinator				Vlad Mu	Vlad Mureșan, PhD, habil., Associate Professor			
2.4. Year of study	Ι	2.5. Semester	Ι	2.6. Type of		2.7.	Content ²	DS
				evaluation	continuous	Discipline status	Compulsoriness 3	DI

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time programme	2	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	1
3.4. Total number of hours in the curriculum	28	Out of which: 3.5.lecture	14	3.6.seminar/laboratory	14
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes					5
3.4.2. Additional documentation in the library, specialized electronic platforms and field					27
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					30
3.4.4. Tutorials					5
3.4.5. Examinations					5
3.4.6. Other activities					
3.7. Total hours of individual study 72					
3.8. Total hours per semester	100				
3.9. Number of credits ⁴	4				

4. Prerequisites (is applicable)

4.1. curriculum-related	Knowledge of: Raw agrifood materials, organic chemistry, chemistry of food, principles and methods of conservation, agro-food microbiology, Food Storage.
4.2. skills-related	. Certificate of linguistic competence (English) Identification, description and appropriate use of specific notions of product quality Food quality management and food safety management systems requirements.



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5. Conditions (if applicable)

5.1. for the lecture	The course is interactive, students can ask questions regarding the content of lecture. Academic discipline requires compliance with the start and end of the course. We do not allow any other activities during the lecture, mobile phones will be turned off. Location and facilities:
	Classroom equipped with: board, projector and computer.
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

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	C 1.1 Knowledge of food quality and safety management systems, national and international legislation on food
a 1	c 1.1 Knowledge of food quality and safety management systems, national and international registration of food
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с	C 1.3 Using the specific methodology for assessing and controlling the hazards associated with agri-food
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a	CTT Realization of complex, interdisciplinary, individual projects
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7. Course objectives (based on the list of competences acquired)

7.1. Overall course objective	Familiarize students with the concepts needed for design and implementation of food traceability systems; Explanation and interpretation of ideas, projects, processes, and theoretical and practical content of the disciplines
7.2. Specific objectives	Learning the conceptual framework and the importance of food traceability systems; Description of methods for tracing of consignments and their link with lots of raw materials; Explain and exemplify the notions; Fostering active participation of master students. Correlation with other courses specific to food industry quality and safety systems, concerning the content of international management standards; Develop procedures for traceability; Preparation of documents / records

8. Content

8.1.LECTURE Number of hours – 14	Teaching methods	Notes
1. Importance of traceability in management quality systems and food safety. Principles of Traceability. History of Food Traceability. Food Traceability.	Lecture, explanation, heuristic conversation, debate	1 lecture
2. Legislative regulations on traceability. Food products. Changes in quality during storage and sale of food products. Traceability of organic food.	Lecture, explanation, heuristic conversation, debate	1 lecture
3. Develop documentation and management of traceability system.	Lecture, explanation, heuristic conversation, debate	1 lecture
 4. Food traceability in agri-food chain. Structured traceability systems 4.1. Grain traceability systems. 4.2. Oil crops traceability systems. 4.3. Root vegetables traceability systems. 4.4. Traceability Systems for fruits. 4.5. Traceability Systems for vegetables. 4.6. Dairy Traceability 4.7. Meat Traceability 4.8. Egg Traceability Traceability Systems for Apicultural products 	Lecture, explanation, heuristic conversation, debate	3 lectures
5. The conceptual framework of withdrawal / recall from the market.	Lecture, explanation, heuristic conversation, debate	1 lecture



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Case study, simulation of situations,	1 project
Case study, simulation of situations, methods for team work / individual	3 projects
Case study, simulation of situations	1 project
Case study, simulation of situations	1 project
Case study, simulation of situations	1 project
and Authenticity: Analytical Technique es in Food Traceability Techniques and ceability: Safer Grains, 1 st Edition. CR litura Academică, Galați. și al Consiliului din 28 ianuarie 2002 c titi Europene, pentru Siguranța Alimer	Technologies. Woodhead Publishing C Press Taylor and Francis Group.
	Case study, simulation of situations, Case study, simulation of situations, methods for team work / individual Case study, simulation of situations Case study, simulation of situations Case study, simulation of situations Case study, simulation of situations and Authenticity: Analytical Technique and 'ceability: Safer Grains, 1 st Edition. CR itura Academică, Galați. și al Consiliului din 28 ianuarie 2002 c

- 1. SR EN ISO 22005-2007: Trasabilitatea în lanțul alimentar. Principii generale și cerințe fundamentale pentru proiectarea și implementarea sistemului.
- 2. SR ISO 9001-2008, Sisteme de management al calității. Cerințe. SR EN ISO 9000-2006 Sisteme de management a calității. Principii fundamentale și vocabular

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 line with the demands of the specific national professional associations.

In order to identify ways of modernization and continuous improvement of the teaching and content of the courses, with the most current themes and practical problems, the teachers participate at the annual meeting of the Association of Food Industry Specialists in Romania, where they meet with the food industry specialists from the private environment and the teaching staff from other higher education institutions in the country. Meetings aim at identifying the needs and expectations of employers in the field and coordinating with other similar programs within other higher education institutions.



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10. Assessment

Type of activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade		
10.4. Lecture	General and particular aspects of food traceability	Continuous assessment	50%		
10.5. Seminar/Laboratory	Developing and presenting a case study based on predetermined topics.	Presentation and submission of individual projects	50%		
10.6. Minimum performance standards					

Knowing the Principles of Food Traceability, as well as realizing an individual Food Traceability specific project. The assessment of the knowledge and skills acquired by students is carried out in accordance with Article 144 (3) of the National Education Law, by full notes from 10 to 1, note 5 certifying the achievement of the minimum competences related to the discipline and passing the examination.

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 25-30 de hours of study (didactical and individual study).

Filled in on 10.09.2021

Course coordinator Vlad Mureșan, PhD, habil., Associate Professor

Laboratory work/seminar coordinator Vlad Mureşan, PhD, habil., Associate

Professor

Subject coordinator Vlad Mureşan, PhD, habil., Associate Professor

to

Head of the Department Sevastita Muste, PhD Professor

Dean Elena Mudura, PhD Professor

Approved by the Department on 22.09.2021

Approved by the Faculty Council on 28.09.2021