

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	
NO.	01	

USAMV-CN-0704010105

SUBJECT OUTLINE

1. Information on the programme

11 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	Food Quality Management
programme	Food Quality Management
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the	e Quality assurance in the agrifood chain								
discipline									
2.2. Course coordin	2.2. Course coordinator Associate Prof. LoredanaFlorina LEOPOLD								
2.3. Seminar/ labora	2.3. Seminar/ laboratory/ project coordinator Associate Prof. Loredana Florina LEOPOLD								
2.4. Year of study	I	2.5. Semeste	II	2.6	6. Type of		2.7.	Content ²	D
				ev	aluation	summativ	Disciplin		C
						e	e status	Compulsoriness	DI
								3	

3. Total estimated time (teaching hours per semester)

3.1. Hours per week – full time	2	out of which: 3.2.	2	3.3. seminar/ laboratory/	2
programme		lecture	_	project	_
3.4. Total number of hours in the	56	Out of which:	28	3.6.seminar/laboratory	28
curriculum		3.5.lecture		2.0.00111111111111111111111111111111111	
Distribution of the time allotted					hours
3.4.1. Study based on book, textbook, bibliography and notes					
3.4.2. Additional documentation in the library, specialized electronic platforms and field					30
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					30
3.4.4.Tutorials					10
3.4.5.Examinations					10
3.4.6. Other activities					

3.7. Total hours of individual study	119
3.8. Total hours per semester	175
3.9. Number of credits ⁴	7

4. Prerequisites (is applicable)

	- /
4.1. curriculum-related	Food chemistry, FQM-Techno-managerial Principles
4.2. skills-related	Bachelor diploma or equivalent
	Certificate of language competence (english)



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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.
5.2. for the seminar/	During practical works, each student will develop an individual activity with
laboratory/ 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

6. Specific competer	ices acquired				
6.1	C2.1. Knowledge and deepening of scientific research methods for food quality and				
Professional	safety				
competences	C2.2. An integrated approach for food quality and safety from a social, economic,				
	ethical and cultural point of view				
	C2.3. Use of specific research methodologies to increase food quality and safety				
	C2.4. Use of criteria and methods for assessing food quality and safety to optimize				
	agri-food technologies				
	C5.1. Use of principles and criteria for conducting internal and external audits in the				
	field of food quality and safety				
	C5.2. Explanation and interpretation of methods for performing internal and external				
	audit for certification of quality and food safety management				
	C5.3. Use of reference standards for internal and external audit design in the food				
	industry				
	C5.4. Use of basic practices for conducting internal and external audits in food industry				
	units				
	C5.5. Development of a model plan for conducting the audit of food quality and safety				
6.2 Transversal	T. d				
competences	To demonstrate the student ability to communicate and work in a team To be able to develop introdiction for a property or find a wallton.				
	To be able to develop interdisciplinary projects on food quality To develop the most formation and formation and the most formation				
	To demonstrate the need for continuous improvement of quality To provide in the continuous improvement of quality in the continuous in the c				
	To participate in research programs related to food quality and safety				

7. Course objectives (based on the list of competences acquired)

7.1. Overall course	This course initiate and define the concepts of food safety/security, quality					
objective	assurance. There are presented, the developments of different QA systems, from					
	Good practices to ISO 9000, 9001, 9004, HACCP. The auality assuance process					
	and the auditing (internal and external) is discussed, with practical implications					
	for food companies.					
7.2. Specific objectives	Advanced knowledge of the food product quality assurance, the role of research and innovation to create new products, to seek continue improvements and make appropriate controls in all chain steps. Ability to compare the main technological aspects for the food production, including the role of the company management.					



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8.1.COURSE	Methods of teaching	Observations
Number of hours -28		
1 Short history and legislation related to quality		1 lecture (2 hrs)
assurance		
2.Good practices: GAP, GMP, GLP, GHP		2 lectures (4 hrs)
3 Good manufacturing practice codes for food		1 lecture (2 hrs)
production	Lectures	
4 Hazard Analysis Critical Control Points (HACCP)		2 lectures (4 hrs)
5 Developing and illustration of a HACCP plan		1 lecture (2 hrs)
6 ISO series or quality assurance		1 lecture (2 hrs)
7 Principles and applications of ISO 9000:2000,		1 lecture (2 hrs)
9004:2000		
8 Quality systems in the animal production sector		1 lecture (2 hrs)
9 Quality systems in the vegetalke and fruit-derived		1 lecture (2 hrs)
production sector		
10 Quality system for the retails		1 lecture (2 hrs)
11 Quality auditing and certification		1 lecture (2 hrs)
12. Quality policy and business strategy related to quality		1 lecture (2 hrs)
assurance: sstrategic alternatives, benchmarking, quality		
policy		

8.2.PRACTICAL WORK		
Number of hours – 14		
1. Good practices: classification and specific features – 4 case studies	Seminars	4 seminars (8 hours)
2. Quality systems in the animal production sector – 4 case studies	Seminars, Case study.	4 seminars (8 hours)
3. Quality systems in the vegetalbe and fruit-derived production sector4 case studies	Seminars, Case study.	4 seminars (8 hours)
4. Applications of ISO 9000:2000, 9004:2000	Seminar	1 seminar (2 hours)
5. Verification - Colloquium	Verification of knowledge	2 hours

Compulsory bibliography:

- 1. Luning P.A., W.J.Marcelis, W.M.F.Jongen (eds.), Food Quality management, a techno-managerial approach, Wageningen Pres, 2002
- 2. P.A. Luning, F. Devlieghere and R. Verhé (eds), Safety in the agrifood chain, Wageningen Pres, 2006
- 3. Froman B. "Manualul Calității", Ed. Tehnică, București, 1998.
- 4. Multon J.L. "La Qualite Des Produits Alimentaires", Technique & Documentation Lavoisier, 1994 *Optional bibliography:*
- 1. Paraschivescu V. Asigurarea, Certificarea Şi Controlul Calității Mărfurilor, Ed. Neuron, Focșani, 1994.
- 2. Scorei R. Şi Colab. "Ghid Practic Pentru Industria Agro-Alimentară", Ed. Aius, Craiova 1998.
- 3. *** Managementul Calității Și Asigurarea Calității Colecție De Standarde, Ed. Tehnică, București, 1996.



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- 5. European Omon. European Food Sarety Additionty (http://www.cisa.curopa.cu/)
- 6. Food and Agriculture Organisation (http://www.fao.org/home/en/)
- 7. Institute of Food Science and Technology (http://www.ifst.org)

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 course curriculum meets the requirements for a qualified preparation, harmonized with the same master program at Wageningen University eg Food safety in the agrifood chain and development for food industry) and topical content (compliance with legal regulations, compliance with the latest standards in the field)

10. Assessment

Type of activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade
10.4. Lecture	Capacity of students to describe the flow of the new product or process development. Considering the need for quality control and improvement	Exam	50%
10.5. Seminar/Laboratory	Students discuss the case studies and solve the quiz questions	Colloquium	50%

10.6. Minimum performance standards Course: Minimal standards: Admitted Seminars: Minimal standard: marks

(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).

¹ Education levels- choose of the three options: Bachelor^{/*} Master/Ph.D.

² Discipline status (content)- for the undergraduate level, choose one of the options:- **FD** (fundamental discipline), **BD**

Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).

⁴ 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



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Filled in on 10.09.2021

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Associate Fioi. Loreuana LEOFOLD

Course coordinator Associate Prof. Loredana LEOPOLD

> Subject coordinator Associate Prof. Loredana LEOPOLD

Approved by the Department on 22.09.2021

Approved by the Faculty Council on 28.09.2021

Head of the Department **Prof. PhD. Ramona Suharoschi**

Dean
Prof. PhD. Elena Mudura