

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

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Form code USAMV-CN-0701040110

SUBJECT OUTLINE

1. Information on the programme

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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 Quality control over vegetal originating products 3								
2.2. Course leader				Assoc. Pr	of.PhD. Mur	eşan Crina		
2.3. Coordinator of seminary/laboratory				Lectures PhD Marc Romina				
activity/project								
2.4. Year of study	2.5. Semester		2.6	. Type of		2.7. Course	Content ²	DS
IV		VIII	VIII evaluation		sumative	regime		
					Sumative		Level of	DI
							compulsory 3	

3. Total estimated time (teaching hours per semester)

3.1. Number of hours/week – frequency form	4	of which : 3.2. course	2	3.3. seminary/ laboratory/ project	2
3.4. Total hours in the curricula	56	of which: 3.5.course	28	3.6.seminary/laboratory	28
Distribution of time I					
3.4.1. Study based on handbook, notes, bibliography					10
3.4.2. Extra documentation in the library, on specific electronic platforms and on field					9
3.4.3. Preparation of seminaries/ laboratories/ projects, themes, papers, portfolies and essays					10
3.4.4.Tutorial					9
3.4.5. Examination					6
3.4.6. Other activities					
2.7 Total house of individual study					

3.7. Total hours of individual study	44
3.8. Total hours per semester	100
3.9. Number of ECTS ⁴	4

4. Prerequisites (if applicable)

4.1. of curriculum	Biochemistry, Vegetal raw materials, Rheology, Extraction technologies, Fermentation technologies.			
10.0				
4.2. of competences	The student must have knowledge regarding the chemical composition of food products, the			
	technology for obtaining vegetal origin food products, changes that occur during processing,			
	rheology terms.			

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



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	adapted
5.2. of seminary/laboratory/	Computer, projector, standards
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 quality 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 quality 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	Knowing the concepts regarding the quality of vegetal products.	
7.2. Specific objectives	To understand the importance of the obtaining process (technological	
	parametres) over the quality parametres of vegetal origin products.	
	To know the quality parametres for vegetal origin products.	
	To know the machines and methods for determining the quality of vegetal original	
	products.	

8. Contents

8.1.COURSE Number of hours – 28	Methods of teaching	Observations
Order and the importance of quality technical control in the food industry.	Lecture, Heuristic conversation, Explanation	1 Lectures
The quality and its' features. The factors that have an influence over the quality of vegetal origin food products.		
The pastry quality control. Fabrication faults.	Lecture, Heuristic conversation, Explanation	1 Lecture
The sweet products control.	Lecture, Heuristic conversation, Explanation	1 Lectures
The fermentative drinks control. The wine quality control. The alcohol and alcoholic products quality control. The beer quality control. The vinegar quality control. Fabrication faults.	Lecture, Heuristic conversation, Explanation	4 Lectures
The oil and margarine quality control.	Lecture, Heuristic conversation, Explanation	1 Lectures
The mixed and vegetal origin cans quality control.	Lecture, Heuristic conversation, Explanation	1 Lectures
The vinegar and spices quality control.	Lecture, Heuristic conversation, Explanation	1 Lectures
Management system of quality control in accordance with SR EN ISO 9001; Standard presentation,		4 Lectures



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documents	Lecture, Heuristic	
	conversation, Explanation	

8.2. PRACTICAL WORK Number of hours – 14		
Work safety measures. First care norms. The preparing of samples for the physico-chemical analysis. Sampling.	Heuristic conversation, working group	1 laboratory work
The strong alcoholic drinks and ethyl alcohol quality control.	Heuristic conversation, working group	1 laboratory work
The wine quality control.	Heuristic conversation, working group	1 laboratory work
The beer quality control.	Heuristic conversation, working group	1 laboratory work
The mixed and vegetal origin cans quality control. The oil quality control.	Heuristic conversation, working group	1 laboratory work
The sweet products quality control.	Heuristic conversation, working group	1 laboratory work
The pastry products quality control.	Heuristic conversation, working group	1 laboratory work
The vinegar and spices quality control.	Heuristic conversation, working group	1 laboratory work
Documents elaboration in accordance with SR EN ISO 9001	Heuristic conversation, working group	1 laboratory work
Final test to check acquired knowledge	Heuristic conversation, working group	4 seminars
	Heuristic conversation, working group	1 laboratory work
Compulsory Ribliography:		

Compulsory Bibliography:

- 1. Muresan Crina 2021- Lecture notes
- Vlaic Romina, Muresan Crina, 2019, Controlul calitatii produselor de origine nonanimala-indrumator de laborator, Mega Cluj-Napoca
- 3. Tofana Maria, Muresan Crina, 2012, Controlul calitatii produselor de origine vegetala, Caiet de lucrari practice, Editura AcademicPres

Facultative Bibliography:

- 1. Muresan Crina, Marc Romina, 2021, Siguranta alimentara -trecut si prezent, Editura Risoprint, Cluj
- 2. Banu, C., col., 2002, Calitatea și controlul calității produselor alimentare, Editura Agir, București
- 3. Apostu S., 2009, Managementul calitatii totale, Editura Risoprint, Cluj

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.



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10. Evaluation

Type of activity	10.1. Evaluation criteria	10.2. Evaluation methods	10.3. Percent of the final grade
10.4. Course	Knowing the factors that influence the quality parametres of vegetal origin food products. Quality parametres for vegetal origin food products. Quality parametres methods of analysis. SR EN ISO 9001 requirements	Exam	50 %
10.5. Seminary/Laboratory	Knowing the principles for determining the physico-chemical characteristics of vegetal origin food products. The usage of quality parametres determining machines. Documents elaboration in accordance with SR EN ISO 9001	Portfolio presentation	50 %

10.6. Minimal standard of performance

Preparation of a technical specification for a finished product of plant origin. Completion of a test report for a finished product of plant origin.

Mastering the scientific information transmitted through lectures and creating 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)

Course coordinator

Assoc. Prof.PhD. Mureșan Crina

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

Laboratory work/seminar coordinator

Lectures PhD Marc Romina

Filled in on 06.09.2021

Subject coordinator

Assoc. Prof.PhD. Mureșan Crina

Approved by the Department on 22.09.2021

Approved by the Faculty Council on 28.09.2021 **Head of the Department** Prof. univ. dr. Sevastiţa Muste

Dean Prof. univ. dr. Elena Mudura

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