

COURSE SYLLABUS

1. Information about the programme

1.1 Institution of higher education	UNIVERSITY OF ORADEA
1.2 Faculty	ENVIRONMENTAL PROTECTION
1.3 Department of	AGRICULTURE, HORTICULTURE
1.4 Field of study	AGRONOMY
1.5 Level of study	MASTER
1.6 Study programme/ Qualification	MODERN TECHNOLOGIES IN AGRICULTURAL AND LIVESTOCK FARMS/ ENGINEER

2. Discipline data:

2.1 Course name	QUALITY MANAGEMENT OF AGRICULTURAL PRODUCTS						
2.2 Course coordinator	GÎTEA MANUEL ALEXANDRU						
2.3 Seminar/ Lab/ Project coordinator	GÎTEA MANUEL ALEXANDRU						
2.4 Year of study	II	2.5 Semester	4	2.6 Type of assessment	Ex.	2.7 Type of discipline	C

(C) Compulsory; (O) Optional; (E) Elective

3. Total time estimated (hours of teaching per semester)

3.1 Number of hours per week	4	of which: 3.2 course	2	3.3 laboratory/ project	2
3.4 Total hours in the curriculum	40	of which: 3.5 course	20	3.6 laboratory/project	20
Distribution of time					hours
Study based on course book, course materials, bibliography and notes					70
Additional documentation in the library, on specialized electronic platforms / in the field					30
Training seminars / laboratories, homework, essays, portfolios and essays					50
Tutoring					5
Examinations					5
Other activities.....					-
3.7 Total hours of private study	160				
3.9 Total hours per semester	200				
3.10 Number of credits	8				

4. Prerequisites (where applicable)

4.1 curriculum	Mathematics, Agricultural economics, Accounting
4.2 competences	Knowledge of mathematical calculation and statistics notions

5. Conditions (where applicable)

5.1. for the course	-Presentation, video-projector, computer, boards.
5.2. for the laboratory	- Equipment needed for seminar dynamics; - Preparation of the paper, knowledge of the notions contained in the seminar paper to be performed (synthesis material); - Carrying out all seminar works.

6. Specific skills acquired

Professional skills	<p>C6 Use of advanced methods and tools to ensure the quality and traceability of agricultural products</p> <p>C4.1 Identify new methods and techniques for investigating the biological properties and agronomic and ecological value of some plant species and / or local populations, as potential alternatives for food, feed and industry</p> <p>C6.5 Elaboration of methodologies for qualitative evaluation of agricultural products and of the mechanisms necessary to ensure the traceability of agricultural products</p>
Transversal competences	<p>CT1 Performing one's own attributions with professionalism and rigor and making specific decisions for teamwork in accordance with deontological values and principles</p> <p>CT3 Objective self-assessment of the need for continuous professional training in order to adapt professional competencies to the dynamics of the field and the demands of the labour market: learning new methods and techniques through continuous learning</p>

7. Course objectives (based on the grid of the skills acquired)

7.1 The overall objective of the course	The main objective of Quality management of agricultural products is to develop a scientifically-based methodology for implementing the quality system, which takes into account the resources for carrying out these strategies and identifying a method of formulating this quality strategy for agricultural products
7.2 Specific objectives	Designing a business plan based on a concrete feasibility study, knowledge of quality standards of agricultural products.

8. Contents *

8.1 Course	Teaching methods	No. of hours / Comments
1. Quality management system. Definitions, basic concepts and characteristics of quality	Presentation, video-projector, computer, boards	2
2. Principles, functions, approaches and strategies in quality management	Presentation, video-projector, computer, boards	2
3. Cereals, dried legumes and products resulting from their processing	Presentation, video-projector, computer, boards	2
4. Vegetables, fruits and products resulting from their processing	Presentation, video-projector, computer, boards	2
5. Sugar products and their quality	Presentation, video-projector, computer, boards	2
6. Taste products and their quality	Presentation, video-projector, computer, boards	2
7. Food fats and their quality	Presentation, video-projector, computer, boards	2
8. Meat and meat products	Presentation, video-projector, computer, boards	2
9. Milk and dairy products	Presentation, video-projector, computer, boards	2
10. Commercial quality of eggs, fish and fish products, food concentrates	Presentation, video-projector, computer,	2

	boards	
11. Stability of food	Presentation, video-projector, computer, boards	2
12. Food preservation	Presentation, video-projector, computer, boards	2
13. Preservation and guarantee of food quality	Presentation, video-projector, computer, boards	2
14. Food packaging and labelling	Presentation, video-projector, computer, boards	2
Bibliography		
1. Cecilia Pop, Ducu Ștef, Mircea Pop – <i>Managementul calității alimentelor</i> , vol. 1, Edict Production Iași, 2009		
2. Cecilia Pop, Ducu Ștef, Mircea Pop – <i>Managementul calității alimentelor</i> , vol. 2, Edict Production Iași, 2009		
3. Constantin Oprean, Claudiu Vasile Kifor, Octavian Suciuc - <i>Managementul integrat al calității</i> , Ed. Universității „Lucian Blaga” Sibiu, 2005;		
4. Andrei Victor - <i>Managementul asigurării calității, principii, concepte, politici și instrumente</i> , Ed. Infarom, 2008;		
5. Ioan Csösz, Sabin Chiș - <i>Managementul producției agroalimentare</i> , Ed. Orizonturi universitare Timișoara, 2005;		
6. Dinu Gavrilăscu, Daniela Giurcă - <i>Economie agroalimentară</i> , Ed. Expert, 2000;		
7. Margareta Oancea - <i>Managementul gestiunii economice și strategia unităților agricole</i> , Ed. Ceres, 2007.		
8.2 Laboratory	Teaching methods	
1. Properties of food goods. Psychosensory properties	Presentation, video-projector, computer, boards	2
2. Properties of food goods. Physical properties	Presentation, video-projector, computer, boards	2
3. Properties of food goods. Physical properties	Presentation, video-projector, computer, boards	2
4. Properties of food goods. Chemical, technological, biological and aesthetic properties	Presentation, video-projector, computer, boards	2
5. Determining the quality of food goods. Physical and physico-chemical methods	Presentation, video-projector, computer, boards	2
6. Determining the quality of food goods. Chemical and microbiological methods	Presentation, video-projector, computer, boards	2
7. The chemical composition of food products and its role in quality assurance Water and its role in determining the quality of food products	Presentation, video-projector, computer, boards	2
8. The chemical composition of food and its role in quality assurance Mineral substances	Presentation, video-projector, computer, boards	2
9. The chemical composition of food and its role in quality assurance Nitrogenous substances	Presentation, video-projector, computer, boards	2
10. The chemical composition of food and its role in quality assurance	Presentation, video-projector, computer, boards	2

Lipids		
11. The chemical composition of food and its role in quality assurance Carbohydrates	Presentation, video-projector, computer, boards	2
12. The chemical composition of food and its role in quality assurance Vitamins	Presentation, video-projector, computer, boards	2
13. The chemical composition of food and its role in quality assurance Organic acids	Presentation, video-projector, computer, boards	2
14. The chemical composition of food and its role in quality assurance Enzymes and other components	Presentation, video-projector, computer, boards	2
Bibliography		
1. Cecilia Pop, Ducu Ștef, Mircea Pop – <i>Managementul calității alimentelor</i> , vol. 1, Edict Production Iași, 2009		
2. Cecilia Pop, Ducu Ștef, Mircea Pop – <i>Managementul calității alimentelor</i> , vol. 2, Edict Production Iași, 2009		
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8.4 Project		

9. Corroborating the content of the discipline with the expectations of the epistemic community, professional associations and representative employers within the field of the programme

The content of the discipline is adapted and meets the requirements of the labour market, being agreed by social partners, trade associations and employers in the field related to the license program. The content of the discipline is found in the curriculum of the specialization Modern technologies in agricultural and livestock farms as well as in other universities in Romania, which have accredited this specialization.

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the final grade
10.4 Course	For grade 5, all subjects must be treated to minimum standards For grade 10, all subjects must be treated to the highest standards	Oral exam	70%
10.5 Seminar			
10.6 Laboratory	For grade 5, the student must answer correctly to at least 50% of the questions For grade 10, the student must answer correctly to 100% of the questions.	The student will be evaluated through a multiple-choice test, including questions from all the subjects covered.	30%
10.7 Project			
10.8. Minimum performance standard: Designing strategies for the development of integrated systems of sustainable management of agricultural production risks.			

Date of submission

Course coordinator/project

Seminar coordinator

01.10.2020

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Date of approval in the department

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07.10.2020

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