UNIVERSITATEA DE ŞTIINŢE AGRICOLE ŞI MEDICINĂ VETERINARĂ CLUJ-NAPOCA
Facultatea de Agricultură
Calea Mănăştur 3-5, 400372, Cluj-Napoca, România
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Number._____Date _____ UASVM-CN Form: 0107040105

SUBJECT'S REPORT

1. Information about the program

1.1. The higher education institution	**University of Agricultural Sciences and Veterirary Medicine Cluj-Napoca**
1.2. Faculty	Agriculture
1.3. Departament	Environmental and Plant Protection
1.4. Field of studies	Agronomy
1.5.Cycle of studies[1]	Bachelor
1.6.Specialisation/ Studies program	Engineering and Environmental Protection
1.7. Form of education	Frequency

2. Information about the subject

2.1. Subject	**Product control and quality certification I**							
2.2. The titular of course activities				**Associate professor PhD. Avram Fiţiu**				
2.3. The titular of seminar/laboratory/projects activities				**Associate professor PhD. Avram Fiţiu**				
2.4. Year of study	I	2.5. Semester	I	2.6. Type of evaluation	Exam	2.7. The regime of the course	Content[2]	DS
							Compulsorines s[3]	DI

3. Estimated total time (hours per semester of teaching activities)

A. 3.1. Number of hours per week - frequency form	2	From which: 3.2. course	1	3.3.seminar / laboratory / project	1
3.4. Total hours of the educational plan	28	From which: 3.5.course	14	3.6.seminar/laboratory	14
Distribution of the time fund					90 hours
3.4.1. The studing using handbook, course support, bibliography and notes					20
3.4.2. Additional documentation in the library, on specialized electronic platforms and in the field					20
3.4.3. Preparation of seminars / laboratories / projects, topics, reports, portfolios and essays					10
3.4.4.Tutorial					5
3.4.5.Exams					5
3.4.6. Other activities					2
3.4.7. Total hours of individual study	62				
3.4.8. Total hours per semestre	90				
3.4. 9. Number of credits[4]	3				

4. Preconditions (where appropriate)

4.1. of curriculum	-
4.2. of competences	The student must have knowledge regarding the ecological technologies of sectoral culture

5. Conditions (where appropriate)

5.1. of course deployment	The course is interactive, students may ask questions about the content. This universitar subject requires to respect the starting time and the finishing time of the course. No other activities are tolerated during the lecture, the cell phones have to be closed.
5.2. of seminar/laboratory/project deployment	At the practical work each student will carry out an individual activity using the laboratory available materials. Academic discipline is required for the entire duration of the work.

6. Specific acquired skills

Professional competences	To know the specific language for the subject: Certification and quality control of agricultural / agri-food products. To know which agricultural practices are beneficial to agricultural farms (Good practices cf APIA) Mastery of the size of an organic or animal farm, as well as the control and certification parameters of a farm or agri-food unit. To follow all the rules the ecological assessment of the location of a farm / agri-food unit
Transversal competences	Demonstrate the ability to integrate organic farms into the sustainable development of the economy and society. To be able to develop ecological technology projects in crop plants, in accordance with European regulations. To be able to plan scientific activities on reducing the impact of ecological farms on global climate change. To show concern regarding the improvement of beneficial agricultural practices in organic farms. To participate in research activities in the field of organic farming.

7. Subject's objective (based on the grid of specific accumulated skills)

7.1. The general objective of the subject	To acquire the knowledge regarding the compulsory agricultural practices for the certification of organic farms / units.
7.2. Specific objectives	To know the sectoral agricultural practices from the farms and the agri-food units ecological or under conversion to the ecological system. Be able to identify the indicators of ecological sectoral evaluation of a farm or agri-food unit.

8. Contents

8.1.COURSES **Number of hours-14**	Teaching methods	Observations
Chapter 1. General procedure of control and certification in the field of an organic farm Location analysis External visual analysis of the farm and products (species, varieties, distances between lines, distances in lines, height, color, size, shape, price, organoleptic characteristics, residual characteristics, characteristics, ethics, nutritional characteristics, visual characteristics) Interior visual analysis of the farm (attached spaces: constructive type, entry-exit registers) Control of storage spaces for raw materials Control of storage spaces for treatment substances Control of waste storage areas Accounting analysis (Invoices; OPs; customer accounts; supplier accounts). Technical analysis (fertilization plan; treatment plan; technological raport) Neighborhood analysis of plots Water balance Sectoral simulations (Big culture, fruit growing, viticulture, vegetable growing)	**Interactive course**	-

8.2. PRACTICAL WORK **Number of hours** **Semester 1**		
Cap.1.The stages of control and certification in the field of an organic farm Ecological certification of cereal farms Ecological certificarion of apple farms Ecological certification of wineries Ecological certification of vegetable farms Ecological certification of animal farms Traditional certification of the quality of cereal products Traditional certification of the quality of vegetable products Traditional certification of the quality of wine products	Field activity in farms and agri-food units	Field visit report (sectoral)

Traditional certification of the quality of the products from technical plants Traditional certification of the quality of processed animal products Traditional certification of the quality of processed vegetable products		

The required Bibliography

Fouilleux E., Loconto M.A, 2016. Voluntary standards, certification, and accreditation in the global organic agriculture field: a tripartite model of techno-politic. Agric Hum Values, 33, 1,
Gibbon P., 2005. Decoding organic standard-setting and regulation in Europe. Paper prepared for UNIDO, Danish Institute for International Studies. 60p.
Allaire G., Cahuzac E., Maigné E., Poméon T., 2015. Localisation de l'agriculture biologique et accès aux marchés. Revue d'Action en Agriculture et Environnement (RAEStud) 96(2).
Allaire G., Cahuzac E., Maigné E., Poméon T., 2016. Dynamiques spatiales dans le développement de l'agriculture biologique : entre cohérences territoriales et logiques de marché. Innovations Agronomiques 51, 27-38
Allaire G., Wolf S., 2004. Cognitive Representations and Institutional Hybridity in Agrofood Systems of Innovation. Science, Technology and Human Values 29, 431-458.
Bellon S., 2016. Contributions de l'agriculture biologique à la transition agroécologique. Innovations Agronomiques 51, 119-135.

Optional bibliography

1. Fiţiu A., 2002. Ecologie şi Protecţia Mediului, Ed. Academicpres, 2002
2. Lemeilleur S., Allaire G., 2016. La certification participative. In Dictionnaire des Communs, PUF, à paraitre.
3. Loconto A., Poisot A.-S., Santacoloma P., 2016. Innovative markets for sustainable agriculture. Exploring how innovations in market institutions encourage sustainable agriculture in developing countries. FAO (A paraître).

9. Corroborating the contents of the discipline with the expectations of the representatives of the epistemic communities, professional associations and representative employers in the field related to the program

In order to identify ways to modernize and continuously improve the teaching and the content of the courses, with the most current topics and practical exercices, the teachers and students participate in the annual symposium of USAMV Cluj-Napoca and in various symposiums and trainings made in collaboration with the certification and control institutions.

10. Evaluare

Activity type	10.1. Evaluation criterias	10.2. Evaluating methods	10.3. Proportion in the final grade
10.4. Course	Certification and control of products	Sumative. Oral exam	70%
10.5. Seminar/Laboratory	Certification of organic farms	There are 4 periodic evaluations	30%
10.6. Minimum performance standard			
Mastery of scientific information transmitted through lectures and practical papers at an acceptable level. Obtaining the passing grade for periodic evaluations is a condition of promotability.			

[1] The cycle of studies - one of the variants is chosen - Bachelor / Master / Doctorate
[2] The regime of the course (content) - for the license level one of the variants is chosen - **DF** (fundamental subject), **DD** (subject in the field), **DS** (specialty subject), **DC** (complementary subject).
[3] The regime of the course (compulsory) - one of the choices is chosen - **DI** (compulsory discipline) **DO** (optional discipline) **DFac** (facultative discipline).
[4] A credit is equivalent to 25-30 hours of study (teaching activities and individual study).

Date of completion
04.09.2019

Titular of course
Associate professor PhD. Avram Fiţiu

Titular of laboratory works / seminars
Associate professor PhD. Avram Fiţiu

Date of approval from the department
05.09.2019

Director of the Department
Professor PhD. Ioan OROIAN