

Universitatea din Oradea	PROCEDURA pentru inițierea, aprobarea, monitorizarea și evaluarea periodică a programelor de studii	COD: SEAQ PE – U. 01						
			4	5	6	7	8	9
			Aprobat în ședința de Senat din data: -- 03.03.2014					

Annex 6

DISCIPLINE DESCRIPTION

1. Information on the study programme

1.1 Higher education institution	UNIVERSITY OF ORADEA
1.2 The Faculty	FACULTY OF ENVIRONMENTAL PROTECTION
1.3 Department	ANIMAL HUSBANDRY AND AGRO-TOURISM
1.4 Field of study	ANIMAL HUSBANDRY
1.5 Cycle of studies	BACHELOR
1.6 Education / Qualification Program	ANIMAL HUSBANDRY/BUSINESS ENGINEER

2. Information on the discipline

2.1 Name of discipline	Zoohigiene and Animal Welfare						
2.2 Course holder	Conf. univ. dr. ing. Maurescu Cristina						
2.3 Seminar/Laboratory/Project holder	Conf. univ. dr. ing. Maurescu Cristina						
2.4 Year of study	II	2.5 Semester	IV	2.6 Type of evaluation	E	2.7 Regime of discipline	I

(I) Impusă; (O) Opțională; (F) Facultativă

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

3.1 Number of hours per week	4	out of which: 3.2 course	2	out of which 3.3 seminar/laboratory/project	2
3.4 Total hours in the curriculum	5	out of which: 3.5 course	28	out of which 3.6 seminar/laboratory/project	28
Time allotment					hours
Study assisted by manual, course support, bibliography and notes					14
Additional documentation in the library/ on specialised electronic platforms and in the field					14
Preparation of seminars/laboratories/ topics/reports, portfolios and essays					10
Tutorship					4
Examinations					2
Other activities.....					
3.7 Total hours of individual study	44				
3.9 Total hours per semester	100				
3.10 Number of credits	4				

4. Prerequisites (where appropriate)

4.1 curriculum	
4.2 competences	

5. Conditions (where appropriate)

5.1. related to course	<ul style="list-style-type: none"> * Classroom with board, computer and projector; * will not tolerate the delay of students in the course as this proves disructivă to the educational process;
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	<ul style="list-style-type: none"> * Is required to comply with the norms of ethics and good conduct during the course.
5.2. related to seminar/laboratory/project	<ul style="list-style-type: none"> * case studies, evaluation in the farm, debates * the use of protective equipment during laboratory hours (robe, boots, disposable jumpsuit). * compliance with the rules of protection of labour, PSI and methods of retention and approach of animals.

6. Specific competences acquired	
Professional competences	<ul style="list-style-type: none"> * The possibility of preventing and reducing the risk of contamination, the occurrence of cross-infections and the accumulation of pathogenic germs in animal shelters; * the development of skills on the use of methodologies to establish the type of microclimate in livestock breeding establishments; * The development of skills for providing advice to farmers, livestock farmers on animal sheltering in different systems of growth, drawing up the self-control plan (HACCP) in livestock farms; * The use of knowledge related to the biosecurity of growth units, in order to prevent animal disease and to maintain their health during their productive cycle; * Knowledge of the mode of action of environmental factors influencing the health status and animal productions and the relationships between the environment and animals; * Understanding the need to know all factors related to the hygiene of animal lairaging in order to ensure their health and increase of productions.
Transversal competences	<ul style="list-style-type: none"> * responsible and efficient implementation of tasks related to professions in the field, in compliance with the principles of professional ethics; * the development and observance of a work programme and the realization of their duties with professionalism and rigour; * the application of effective communication techniques in teamwork-specific activities; Taking a role in it and respecting the principles of division of labour; * self-evaluation of the need for continuous vocational training in order to adapt and constantly respond to economic requirements; * the use of effective methods and techniques of lifelong learning, with a view to training and continuous professional development.

7. Objectives of discipline (coming from the specific competences acquired)

7.1. General objective	<ul style="list-style-type: none"> * The learning of theoretical and practical knowledge by students on the hygiene rules of domestic animals.
7.2. Specific objectives	<ul style="list-style-type: none"> * of theoretical knowledge of water hygiene, animal shelters, body hygiene, microclimate in shelters, hygiene of food and grazing, hygiene measures to prevent and combat infectious and parasitic diseases in animals And the influence of these factors on animal health; * the possibility of preventing and reducing the risk of contamination, the occurrence of cross-infections and the accumulation of pathogenic germs in animal shelters; * the development of skills on the use of methodologies to establish the type of microclimate in livestock breeding establishments; * the use of knowledge related to the biosecurity of growth units in order to prevent animal disease and maintain their health during their productive cycle;

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	<ul style="list-style-type: none"> * knowledge of the mode of action of environmental factors influencing the health status and animal productions and the ratios between the environment and animals; * Understanding the need to know all factors related to the hygiene of animal lairaging in order to ensure their health and increase of productions.
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8. . Content*

8.1 Course	Methods of teaching	No. of hours/Remarks
Cap. I. Introduction – Object, purpose and definition of Zooigienei	Modern Lecture in forms accessible to the student, combined with the debate, followed by an explanation to clarify the phenomena presented. Active-participative methods	2
Cap. II. Sanitary and water Hygiene 2.1. The importance of water as a natural environment factor 2.2. The importance of water for the animal body (the body's water content, the hydric balance and its adjustment). 2.3. Water sources and their hygienic appreciation (water meteoric, groundwater, surface water) 2.4. Pollution and self-treatment processes (sources and consequences of water pollution, water self-treatment, methods of assessing the pollution degree and wastewater treatment processes) 2.5. Drinking water (water drinking conditions) 2.6. Water requirements of zootechnical farms 2.7. Water supply of zootechnical farms 2.8. Water treatment (water purification, water filtration, water correction, water disinfection) 2.9. Rational exploitation of treatment stations, hygienic control of supply facilities and drinking water. 2.10. The technique and methods of watering in different species and categories of animals, hygienic requirements in the watering of animals (adăpării time, adăpării frequency, watering technique, technical and hygienic maintenance of Adăpătorilor) 2.11. Consequences of unhygienic watering. The influence of shortcomings in the hygiene of water and of water on health, animal production (quantitative/qualitative deficiency).	Modern Lecture in forms accessible to the student, combined with the debate, followed by an explanation to clarify the phenomena presented. Active-participative methods	7
Cap. III. Animal Shelter Hygiene 3.1. The role of shelters in the breeding and exploitation of animals 3.2. Hygienic criteria for the placement of livestock farms and complexes 3.3. Systematization of shelters, sectors and objectives within zootechnical farms.	Modern Lecture in forms accessible to the student, combined with the debate, followed by an explanation to clarify the phenomena	7

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<p>3.4. Hygienic requirements on materials used in the construction of shelters</p> <p>3.5. Hygienic requirements regarding the construction elements of the shelters.</p> <p>3.6. Elements, installations and systems that ensure the functionality of the shelters and participate in the realization of the microclimate</p> <p>3.7. The microclimate in shelters (climate factors and their influence on health and production, the physical factors of the microclimate, the chemical factors of the microclimate, the biological factors of the microclimate).</p>	presented. Active-participative methods	
<p>Cap. IV. Hygiene of food and grazing</p> <p>4.1. General hygiene principles in the feeding of domestic animals</p> <p>4.2. Food shortages and their influence on health and production</p> <p>4.3. Grazing hygiene.</p>	Modern Lecture in forms accessible to the student, combined with the debate, followed by an explanation to clarify the phenomena presented. Active-participative methods	4
<p>Cap. V. Body hygiene of domestic animals</p> <p>5.1. Brushing</p> <p>5.2. Trimming</p> <p>5.3. Animal bathing</p> <p>5.4. Hygienic maintenance of hooves and nails</p>	Modern Lecture in forms accessible to the student, combined with the debate, followed by an explanation to clarify the phenomena presented. Active-participative methods	2
<p>Cap. VI. Animal Hygiene during transport</p> <p>6.1. Planning and organizing the transport of animals</p> <p>6.2. Transport of animals by rail</p> <p>6.3. Transport of animals by motor vehicles</p> <p>6.4. Transport of animals with ships</p> <p>6.5. Transport of animals by plane</p> <p>6.6. Movement of animals on foot</p> <p>6.7. Transport of live fish</p> <p>6.8. Transport of Bee Families</p> <p>6.9. Consequences of animal transport</p> <p>6.10. Transport of products of animal origin</p>	Modern Lecture in forms accessible to the student, combined with the debate, followed by an explanation to clarify the phenomena presented. Active-participative methods	3
<p>Cap. VII Hygiene measures to prevent and combat infectious and parasitic diseases in animals</p> <p>The technological and hygiene principle "everything full, everything empty" in popular and depopulation;</p> <p>Veterinary and disinfection filters; Prophylactic quarantine, isolators and points for animal slaughter;</p> <p>Quarantine of necessity and epizootic area; disinfection, exterminator and exterminator;</p> <p>The recovery, neutralization and destruction of bodies, waste and confiscation of animal origin</p>	Modern Lecture in forms accessible to the student, combined with the debate, followed by an explanation to clarify the phenomena presented. Active-participative methods	3
<p>Bibliografie:</p> <p>1. Leonte Doina, 2011 – Zooigienă, Material de studiu ID, Universitatea de Științe Agricole și Medicină Veterinară "Ion Ionescu de la Brad", Iași</p>		

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<p>2. Confederat Margareta, Bazgan Olimpia, 2005 – Curs de zooigenă, Editura Tehnopress, Iași</p> <p>3. Confederat Margareta, 2005 – Manual practic pentru zooigenă, Editura Tehnopress, Iași</p> <p>4. Drăghici C., 1979 – Microclimatul adăposturilor pentru animale, Editura Ceres, București</p> <p>5. Drăghici C. 1996 – Igiena animalelor domestice, Tipografia Agronomia, Cluj Napoca</p> <p>6. Andronie Ioana C., 2016 – Bunăstarea animalelor – note de curs, Universitatea Spiru Haret, București</p> <p>7. Man C., 1986 – Curs de zooigenă, Tipografia Agronomia, Cluj Napoca</p> <p>8. Man C., 1986 – Lucrări practice de zooigenă, Tipografia Agronomia, Cluj Napoca</p> <p>9. Man C., 1989 – Apa, sănătatea și producțiile animalelor, Tipografia Agronomia, Cluj Napoca</p> <p>10. Teușdea V., 2006 – Factorii naturali de mediu și influența lor asupra animalelor, Editura Omega Print, București</p>		
8.2 Seminar	Metode de predare	Nr. Ore / Observații
8.3 Laboratory		
<p>1. Water Hygiene</p> <p>1.1. Harvesting, conservation and transport of water samples</p> <p>1.2. organoleptic Character examination</p> <p>1.3. Determination of physical characters</p> <p>1.4. Chemical character Exam</p> <p>1.5. Hygienic examination of wastewater</p> <p>1.6. Bacteriological Water Examination</p> <p>1.7. Biological Water Examination</p> <p>1.8. Water purification Igiena Aerului</p> <p>2.1. Atmosphere, Air</p> <p>2.2. The physical properties of the air and their influence on the organism (temperature, humidity, movement, atmospheric pressure, rainfall, solar radiation, etc.)</p> <p>Soil hygiene</p> <p>3.1. The importance of the soil</p> <p>3.2. Soil composition</p> <p>3.3. Structure and physical properties of the soil</p> <p>3.4. Soil water</p> <p>3.5. Ground Air</p> <p>3.6. Caloric properties of soil</p> <p>3.7. Soil pollution and its influence on animals</p>	Discussions with students, work at the laboratory (interactive activity). Field exit	4
<p>4. Shelter Hygiene</p> <p>4.1. Determination Of The Surface Of The Shelters</p> <p>4.2. Determination Of The Volume Of The Shelters</p> <p>4.3. Appreciation Of Brightness In Animal Shelters (Appreciation Of Natural Brightness, Appreciation Of Artificial Lighting)</p> <p>4.4. Determination And Control Of The Microclimate In Shelters</p> <p>4.5. Ventilation Of The Shelters</p> <p>4.6. Complex Appreciation Of The Microclimate In Animal Shelters</p> <p>4.7. General Hygiene Assessment Of The Shelters</p>	Discussions with students, work at the laboratory (interactive activity). Field exit	8
<p>5. Body Hygiene Of Domestic Animals</p> <p>5.1. Pansajul</p> <p>5.2. Trimming Of Animals</p> <p>5.3. Animal Bathing</p> <p>5.4. Care Of Hooves, Ongloanelor And Horns</p>	Discussions with students, work at the laboratory (interactive activity). Field exit	4

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6. General hygiene measures for the prevention and combating of communicable diseases in animals and zoonoses	Discussions with students, work at the laboratory (interactive activity). Field exit	4
8.4 Proiect		

Bibliografie:		
1. Leonte Doina, 2011 – Zooigienă, Material de studiu ID, Universitatea de Științe Agricole și Medicină Veterinară "Ion Ionescu de la Brad", Iași 2. Confederat Margareta, Bazgan Olimpia, 2005 – Curs de zooigienă, Editura Tehnopress, Iași 3. Confederat Margareta, 2005 – Manual practic pentru zooigienă, Editura Tehnopress, Iași 4. Drăghici C., 1979 – Microclimatul adăposturilor pentru animale, Editura Ceres, București 5. Drăghici C. 1996 – Igiene animalelor domestice, Tipo Agronomia, Cluj Napoca 6. Andronie Ioana C., 2016 – Bunăstarea animalelor – note de curs, Universitatea Spiru Haret, București 7. Man C., 1986 – Curs de zooigienă, Tipo Agronomia, Cluj Napoca 8. Man C., 1986 – Lucrări practice de zooigienă, Tipo Agronomia, Cluj Napoca 9. Man C., 1989 – Apa, sănătatea și producțiile animalelor, Tipo Agronomia, Cluj Napoca 10. Teușdea V., 2006 – Factorii naturali de mediu și influența lor asupra animalelor, Editura Omega Print, București		

* The content, respectively the number of hours allocated to each course / seminar / laboratory / project will be detailed during the 14 weeks of each semester of the academic year.

9. Corroboration of discipline content with the expectations of the epistemic community, professional associations and representative employers from the field corresponding to the study programme

<p>A description of how the scientific content of the discipline can respond from the point of view of the occupations in the labour market will be made.</p> <ul style="list-style-type: none"> • By acquiring theoretical concepts and addressing practical aspects included in Zooigienă discipline and animal welfare, students acquire a consistent knowledgeable baggage in accordance with the partial competencies required for the occupations Possible set out in Grid 1 – RNCIS; • • The course exists in the curriculum of studies of universities and faculties in Romania.

10. Evaluare

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the final grade
10.4 Course	Examen programat în sesiunea de examen	written examination	90%
10.5 Seminar			
10.6 Laboratory	Evaluation in laboratory works is a continuous assessment.	Knowledge tests, practical skills, references	10%
10.7 Project			
10.8 Minimum performance Standard: Knowledge of the mode of action of environmental factors influencing the health status and animal productions and the ratios between the environment and animals.			

Data completării
14.03.2017

Semnătura titularului de curs
Conf. univ. dr. ing. Cristina Maerescu
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Data avizării în departament
16.03.2017

Semnătura directorului de departament
Conf. univ. dr. ing. Cristina Maerescu

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Semnătură Decan

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