Biotechnical Faculty / LIVESTOCK PRODUCTION / ZOOHYGIENE AND DISEASE PREVENTION

Course:	ZOOHYGIENE AND DISEASE PREVENTION			
Course ID	**Course status**	**Semester**	**ECTS credits**	**Lessons** (Lessons+Exercises+Laboratory)
4813	Mandatory	5	7	4+2+0
Programs	LIVESTOCK PRODUCTION			
Prerequisites	the subject teachers recommendation is to pass the subjects: zoology, chemistry, biochemistry, anatomy and physiology, microbiology, nutrition, general animal husbandry, mechanization and equipment in animal husbandry.			
Aims	Objectives of studying the subject: examination of the influence of factors of the external environment on the health of domestic animals, development of hygiene standards for the construction of facilities for the accommodation of domestic animals, application of the principles of animal husbandry hygiene, differentiation of basic pathological changes in the animal organism, organization of preventive measures against infectious and parasitic diseases of animals, application of the principles of animal welfare			
Learning outcomes	After passing the exam, the student will know the factors of the external environment that affect the health of domestic animals, the hygiene of land, water and air, hygiene standards for the construction of facilities for the accommodation of domestic animals, the principles of animal husbandry hygiene, basic pathological changes in the animal organism, preventive measures against infectious and parasitic diseases of animals, management of waste products of animal origin, principles of animal welfare, basic forms of pathological behavior of animals, mechanism of animal stress reaction			
Lecturer / Teaching assistant	Mirjana Bojanic Rašović, PhD, Associate: Miljan Veljić, master, Biotechnical Faculty			
Methodology	Lectures, practical exercises, class activity, independent work, doing homework, seminar work, consultations.			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Introduction to animal hygiene (concept, subject, scientific and practical activities of animal hygiene). Soil, water and air hygiene			
I week exercises	Hygienic testing of land			
II week lectures	Basics of general pathology			
II week exercises	Hygienic testing of water			
III week lectures	Infectious diseases of animals			
III week exercises	Hygienic air testing			
IV week lectures	Parasitic diseases of animals			
IV week exercises	Hygiene norms in facilities for housing domestic animals; Calculation of the volume of ventilation in facilities for keeping animals			
V week lectures	Management of by-products of animal origin; Disinfection, disinsection and pest control			
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VI week lectures	Colloquium I			
VI week exercises	Hygienic assessment of sheep and goat farms (field exercises)			
VII week lectures	Correctional colloquium 1 (1015-1130h) Nutritional hygiene (11.30-13h			
VII week exercises	Hygienic assessment of cattle farms (field exercises)			
VIII week lectures	Stress, behavior and animal welfare. Animal transport hygiene. Body care of domestic animals			
VIII week exercises	Hygienic assessment of pig farms (field exercises)			
IX week lectures	The basics of barn hygiene			
IX week exercises	Hygienic assessment of poultry farms (field exercises)			
X week lectures	Hygiene of cattle housing and keeping; Hygiene of accommodation and keeping of sheep and goats; Hygiene of milk, mammary glands and lactating animals			
X week exercises	Hygienic assessment of a horse farm (field exercises)			
XI week lectures	Hygiene of accommodation and keeping of horses and pigs; Poultry housing and keeping hygiene.			

XI week exercises	Bee keeping hygiene (field exercises)
XII week lectures	Hygiene in the reproduction of domestic animals; Hygiene of newborn animals
XII week exercises	Colloquium of exercises
XIII week lectures	Colloquium II
XIII week exercises	Presentation of homework and colloquium of exercises
XIV week lectures	Corrective colloquium II
XIV week exercises	Presentation of homework and colloquium of exercises
XV week lectures	Presentation of homework and colloquim of exercises
XV week exercises	Colloquim of exercises
Student workload	

Per week	**Per semester**
7 credits x 40/30=9 hours and 20 minuts 4 sat(a) theoretical classes 0 sat(a) practical classes 2 excercises **3 hour(s) i 20 minuts** of independent work, including consultations	Classes and final exam: **9 hour(s) i 20 minuts x 16 =149 hour(s) i 20 minuts** Necessary preparation before the beginning of the semester (administration, registration, certification): **9 hour(s) i 20 minuts x 2 =18 hour(s) i 40 minuts** Total workload for the subject: **7 x 30=210 hour(s)** Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) **42 hour(s) i 0 minuts** Workload structure: **149 hour(s) i 20 minuts (cources), 18 hour(s) i 40 minuts (preparation), 42 hour(s) i 0 minuts (additional work)**
Student obligations	Certification of the semester and registration of grades, Final exam
Consultations	Consultations: 2 hours during the week in agreement with students
Literature	Basic literature: Mirjana Bojanić Rašović (2018). Animal hygiene and disease prevention, textbook; University of Montenegro, Mirjana Bojanić Rašović (2023). Practicum in animal hygiene, University of Montenegro (textbook and practicum are available on the website of the University of Montenegro https://www.ucg.ac.me/publikacijepreview.php) Legal regulations: http://www.sluzbenilist.me/ Material from lectures and exercises, questions from lectures and exercises, topics for homework, exam questions for the final exam are given to students in the first class and are available from the subject teacher in printed and electronic form, as well as on the Universitys website.
Examination methods	Class activity up to 11 points (one point for each lecture). Work and presentation of two homework assignments up to 14 points (one homework assignment is worth up to seven points). Colloquiating the first five exercises up to 5 points (each colloquial exercise is valued at one point). If the student achieves all the points from the exercises, he is exempted from the exam questions from the exercises on the final exam. Two colloquiums up to 10 points (20 points in total). Colloquiums are taken in writing and consist of 10 questions (one question is worth one point).The duration of the colloquium is 60 minutes. If the student takes a remedial colloquium, the grade from the remedial colloquium is entered, regardless of the number of points earned on the colloquium. Final exam: 50 points. The final exam is taken orally by drawing a combination of four exam questions - material from lectures and exercises is included. A passing grade is obtained if at least 50 points are accumulated cumulatively. Grade: number of points: A (≥ 90 to 100 points); B (≥ 80 to < 90); C (≥ 70 to < 80); D (≥ 60 to < 70); E (≥ 50 to < 60); F < of 50
Special remarks	Teaching (P + V) is performed for a group of 30 students, and laboratory exercises for groups with 10 students.
Comment	

Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points