

Study Programme: Animal Science			
Course Unit Title: Mechanization and automatization in animal husbandry			
Course Unit Code: 19.ANM013			
Name of Lecturer(s): Miodrag, S, Zoranović			
Type and Level of Studies: Undergraduate, level 1			
Course Status (compulsory/elective): compulsory			
Semester (winter/summer): winter			
Language of instruction: Serbian			
Mode of course unit delivery (face-to-face/distance learning): face-to-face			
Number of ECTS Allocated: 5			
Prerequisites: -			
Course Aims: Establishing interactive relationships between theoretical and practical principles in the field of applied technologies with accompanying techniques for animal husbandry.			
Learning Outcomes: An insight into the importance of choosing, applying and using technical solutions within the accompanying technologies of animal husbandry.			
Syllabus: <i>Theory: Checking and supplementing knowledge in the domain of the SI system of measurement units. Driving machines with SUS engines. Electricity with its subtypes. Electric motors. Alternative sources of electricity and thermal energy in animal husbandry. Basics of automation in animal husbandry. Machines and equipment for storing hay. Machines and equipment for preparing green fodder. Dehydrator stations. Devices for the preparation of grain and root-tuberous fodder. Water supply to farms. Electric fence and other auxiliary devices in animal husbandry. Technology in cattle breeding. Technology on pig farms. Technology on poultry farms. Technique in sheep breeding. Technique in fishing. Turbo machines in animal husbandry. Purification of air and water in animal husbandry. Manure management.</i> <i>Practice: Demonstration and calculation procedures for the above-mentioned areas.</i>			
Required Reading: 1. Tošić, M.: Savremeni objekti i oprema za gajenje svinja, Nolit, Beograd,2001. 2. Tošić, M.: Objekti i oprema za držanje krava, Poljoprivredni fakultet, Zemun, 2002. 3. Zoranović, M., Potkonjak, V., Ivanišević, M.: Elektronska forma, predizdanje novog udžbenika „Poljoprivrena tehnika i automatizacija procesa u stočarstvu“, Novi Sad. 2013. 4. C. H. BURTON and C. TURNER: MANURE MENAGEMENT. Treatment Strategies for Sustainable Agriculture 2nd Edition. Silsoe Research Institute 2003. Wrest Park. Silsoe. Bedford. UK. 5. Zoranović, M.: Originalne animacija tehničko-tehnoloških procesa u stočarstvu sa njihovim teoretskim i praktičnim osnovama. Novi Sad, 2013.			
Weekly Contact Hours: 5	Lectures: 3	Practical work: 2	
Teaching Methods: Teaching of the presented areas with practical display of exhibits and active participation of students based on the principle of direct logical conversation, as well as using the unfathomable possibilities of IT technologies.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Active class participation	10	written exam	15
Practical work	20	oral exam	25
Preliminary exam(s)	30	
Seminar(s)			
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			