

<b>Study program:</b> Organic crop and livestock production				
<b>Type and level of study:</b> Bachelor academic studies				
<b>Course Title:</b> NUTRITION OF NONRUMINANT				
<b>Teachers:</b> Dr. Mihailo Radivojević, Assistant professor				
<b>Status:</b> Elective 3, VI semester				
<b>ECTS:</b> 8				
<b>Prerequisite:</b> None				
<b>The goal of course</b> Introducing students with the basic nutrients, feed, nutrition, and the needs in nutrients, nutrition basics and specifics of the most important domestic and wild animals belonging to non-ruminants as well as fish and learning about animal testing methods.				
<b>The outcome of the subject</b> If students are trained basic knowledge and the specifics of individual food animal species as well as to gain information on how the analysis of feed and preparing meals for quality organic livestock production.				
<b>Syllabus</b> <i>Theoretical study</i> – The science of nutrition; Nutrients and their metabolism - carbon- hydrates, fats, proteins, vitamins, minerals, water; Assessment of the nutritional value of food; Animal food, production, processing and utilisation in organic livestock breeding and animal husbandry- green feeds, forages, ensiled feeds, root and tuberous feeds, grain feeds - cereals, legumes, oilseeds, by-products of the milling industry and the oil industry; Animal feed - by-products of sugar factories, alcohol industries, brewery, starch; Animal feed - animal feed, yeast and algae, mineral nutrients, preparing of feed and feed mixtures, preserving of animal feeds; The animal requirements for maintance, reproduction, lactation, growth, fattening, work; Nutrition of horses; Nutrition of pigs; Nutrition of; poultry, Nutrition of rabbits, Nutrition of wildlife, Nutrition of fish.  <i>Practical classes</i> – Sampling, packaging and shipping of samples of animal feed for examination; Methods of animal feed testing. Determination of the nutritional value of animal feed - Weende procedure, and quick methods (NIR, NIRS); Review and hygiene evaluation of green feeds, dried forages, silage, root and tuberous feeds, grain feeds, farinaceous feeds and oil meal and cake; Review and evaluation of animal feeds, mineral nutrients, feeds of vegetable origin (voluminous and concentrated) and feed mixtures. Balancing of rations and computer analysis and correction of ration prescriptions for nutrition of horses, pigs, poultry, game and fish, in organic livestock breeding and animal husbandry; Contemporary informatics solutions for balancing of rations.				
<b>Literature</b> 1. NRC (2012): Nutrient requirementsa of Swine. 11th Revised Edition. Committee on Nutrient Requirements of Swine. Board on Agriculture and Natural Resources. Division on Earth and Life Studies. National Research Council. The National Academic Press. Washington, D.C. 2. Edwards, S. (2002): Feeding Organic Pigs. Handbook. University of Newcastle. 3. NRC (2007): Nutrient requirementsa of Horses. 8th Revised Edition. Committee on Nutrient Requirements of Horses. Board on Agriculture and Natural Resources. Division on Earth and Life Studies. National Research Council. The National Academic Press. Washington, D.C. 4. Pallant, J. (2011): SPSS Survival Manual, 4th Edition. Allen & Unwin. 5. Leeson, S., Summers, J. D. (2005): Commercial Poultry Nutrition Third Edition. University Books. Guelph, Ontario. 6. Blair, R. (2008): Nutrition and Feeding of Organic Poultry. Faculty of Land and Food Systems. The University of British Columbia. Vancouver, British Columbia. Canada.				
<b>Number of lectures: 6</b>				Other Classes
Lectures: 3	Practices:3	Other forms of teaching:	Student research work:	

**Teaching methods:** The method of oral presentations and discussions, written work (seminars and colloquium). The method of practical work on animal farms in clinical and chemical analytical laboratories.

Score (maximum 100 points)

<b>Pre-commitments</b>	<b>1. Poens</b>	<b>2. The final exam</b>	<b>3. Poens</b>
Activity during lectures	4. 10	5. Written exam	6.
Practical classes	7. 10	8. Oral examination	9. 30
Colloquia	10. 40	11.	12.
Seminars	13. 10	14.	15.
<i>Total</i>	16. 70	17.	18. 30