Course Unit Descriptor

Study Programme: Animal Production	
Course Unit Title: Application of software in animal nutrition	
Course Unit Code: 19.ANM053	
Name of Lecturer(s): Doc. Mirko Ivković, PhD	
Type and Level of Studies: Undergraduate academic studies	
Course Status (compulsory/elective): elective	
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: 6	
Prerequisites:	

Course Aims:

Acquisition of practical knowledge from the field of modern software in animal nutrition. Training students for direct work with software in feed production, as well as for improving animal nutrition.

Learning Outcomes:

Ability of the student to apply the acquired knowledge in software usage. Ability to use and analyze scientific literature, gather and interpret relevant information for making judgments, devise and defend arguments and solve problems in animal nutrition. Ability to communicate information, ideas, problems and solutions.

Syllabus:

Theory

Spreadsheets. Mathematical modeling and application of mathematical models in animal nutrition. Application of optimization of ration composition, diets and premixes. Computer programs for the evaluation of the energy value of feedstuffs and diets. Computer programs for the evaluation of feed values. Computer programs for calculating the nutritional requirements of animals. Computer programs for the preparation of rations, diets and premixes.

Practice

Using spreadsheets. Using programs for the evaluation of the energy value of food, determining the feed values, calculating the needs of domestic animals, preparing rations, diets and premixes.

Required Reading:

Glamočić D. (2002): Ishrana preživara – praktikum. Univerzitet u Novom Sadu, Poljoprivredni fakultet, Novi Sad.
Grubić G., Adamović M. (2003): Ishrana visokoproizvodnih krava. Institut PKB Agroekonomik, Beograd.

Weekly Contact Hours:	**Lectures: 2**		**Practical work: 2**	
Teaching Methods: Lectures, Practical classes, Consultations				
Knowledge Assessment (maximum of 100 points):				
Pre-exam obligations	points	**Final exam**	points	
Active class participation	10	written exam	20	
Practical work	10	oral exam	20	
Preliminary exam(s)	40	…….		