

Study programme: Zootechnics			
Type and level of study: Bachelor's degree (240 ECTS) – First cycle			
Course title: Animal Nutrition			
Lecturer: Ass. Prof. Vladimir Dosković, PhD			
Language of instruction: English			
ECTS credits: 6			
Prerequisite:			
Semester: <i>winter</i>			
Course objective To enable the student to acquire knowledge and understanding of: a) basic concepts in animal nutrition and feed quality control methods; b) feed nutritive value; feedstuff characteristics; nutritional requirements of animals based on their genetic potential and production; diet formulation for farm animals, and nutrition specific to particular types and categories of farm animals			
Learning outcomes The knowledge acquired will prepare the students to work individually and collectively in the feed preparation process and proper animal nutrition.			
Course contents <i>Theoretical instruction</i> Importance, subject matter and purpose of animal nutrition. Nutrients: water, proteins-amino acids, carbohydrates, lipids, minerals, vitamins. Feedstuffs: fodder, concentrate, complete feeds, premixes, feed supplements. Hygienic quality of feeds. Nutrition specific to particular types of animals (cattle, sheep, goats, horses, pigs, poultry, fish, dogs and cats). <i>Practical instruction</i> Determination of the chemical composition of feeds. Evaluation of the nutritive value of feeds. Feed quality inspection and evaluation. Formulation of diets and complete feeds for particular types and categories of farm animals.			
Recommended reading Dr. J. Häffner, Dr. D. Kahrs, Dr. J. Limper, J. de Mol, Dr. M. Peisker, Dr. P. Williams(2000): Amino acids in animal nutrition. 1-61. ISBN 3-86037-126-6. Agrimedia GmbH M. R. Bedford, G. G. Partridge (2001): Enzymes in farm animal nutrition. 1-412. ISBN 0 85199 393 1. CABI Publishing Dr. N. Albers, Dr. G. Gotterbarm, Dr. W. Heimbeck, Dr. Th. Keller, Dr. J. Seehawer, Dr. T. D. Tran (2002): Vitamins in Animal Nutrition. 1-78. ISBN 3-86037-167-3. Agrimedia GmbH P. McDonald, R. A. Edwards, J. F. D. Greenhalgh, C. A. Morgan, L. A. Sinclair, R. G. Wilkinson (2011): Animal nutrition, Seventh Edition. 1-714. Pearson, Harlow, Essex, UK.			
Hours of active teaching			Other classes
Lectures: 3x15=45	Practicals: 2x15=30	Individual work:	
Teaching methods Theoretical instruction and practical instruction combined with interactive teaching for all units. Testing after each unit covered in the lectures and practical sessions.			
Assessment (maximum points 100)			
Examination requirements	Points	Final examination	Points
Class participation	10	midterm examination(s)	20
Participation in practical sessions	10	written examination	50
Seminar(s)	10		
Grading system			
Grade	ECTS	Description	
10	91-100	Excellent	
9	81-90	Exceptionally good	
8	71-80	Very good	
7	61-70	Good	
6	51-60	Passing	
5	≤50	Failing	