

Study Programme: Master academic studies - ANIMAL PRODUCTION			
Course Unit Title: SWINE AND POULTRY NUTRITION			
Course Unit Code: 19MST1119			
Name of Lecturer(s): Full. Prof. Miloš Beuković			
Type and Level of Studies: MASTER ACADEMIC STUDIES			
Course Status (compulsory/elective): Elective			
Semester (winter/summer): Summer			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): Face to face			
Number of ECTS Allocated: 6			
Prerequisites: -			
Course Aims: Acquaintance of students with methods of modern feeding of pigs and poultry.			
Learning Outcomes: The formation of experts with academic education who possess significantly expanded and deepened knowledge for the necessary understanding of the scientific basis in non-ruminant nutrition as well as the expertise to work in scientific laboratories and research centers, institutes and faculties in the field of application of modern biotechnological methods in non-ruminant nutrition.			
Syllabus: <i>Theory</i> Introduction - The role and importance of biotechnology in modern non-ruminant nutrition. Methods in the function of sustainable production and feeding of pigs and poultry. Modern nutrition and ecology. Methods in the preparation of nutrients and mixtures: Methods of improving the nutritional value of nutrients and mixtures: extrusion, micronization, hydrothermal treatment, pelleting. Organically bound microelements in nutrition. Modern food additives: Probiotics, Prebiotics, Phytobiotics, Mananoligosaccharides, Adsorbents Enzymes as additives and their role in improving the nutritional value of food. Synthetic amino acids and peptides in food. Fermented food, impact on nutritional value, health status and use of less valuable nutrients. Biotechnology in the nutrition of certain species and categories of non-ruminants. Nutrient requirements and biotechnology in poultry nutrition. <i>Practice</i> Methods of determining digestibility. Calculation and correction of the biological value of protein. Application of the ideal protein concept. Acquaintance of students with the application of modern methods of biotechnology methods in the conception of mixtures for the nutrition of certain species and categories of non-ruminants Field exercise.			
Required Reading:			
Weekly Contact Hours:	Lectures: 2	Practical work: 2	
Teaching Methods: Lectures and Practical classes, Consultations if needed.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Active class participation	-	written exam	15
Practical work	-	oral exam	45
Preliminary exam(s)	-	
Seminar(s)	40		

The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.