

## ECTS catalog with learning outcomes University of Montenegro

## Biotechnical Faculty / ANIMAL PRODUCTION / NON-RUMINANT NUTRITION

Course:	NON-RUMINANT NUTRITION							
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exer cises+Laboratory)				
4010	Mandatory	4	7	3+1+1				
Programs	ANIMAL PRODUCTION							
Prerequisites	Basics of animal nutrition and feeds							
Aims	introducing students with specificity of feed formulation, norms, optimal diet models and balancing in nonruminant nutrition							
Learning outcomes	• Explain and assess the nutritional value of feed and nutritional needs of pigs, poultry and horses, • Describe the most important characteristics of feed materials used in feeding non-ruminants, • Calculate the needs of different categories of pigs, poultry and horses for certain nutrients and energy • Create a feed mixture and balance meals for all categories of pigs, poultry and horses • Organize and implement different feeding techniques							
Lecturer / Teaching assistant	Ph.D. Dušica Radonjić							
Methodology	lectures, practical, colloquium, essay, field lecture etc							
Plan and program of work								
Preparing week	Preparation and registration of the semester							
I week lectures	Specificity of pig nutrition							
I week exercises	Selection of feed for pigs							
II week lectures	Requirements, nutrients, feeds and additives in pig nutrition							
II week exercises	Requirements and feed formulation for pigs							
III week lectures	Nutrition of pregnant sow							
III week exercises	Requirements and feed formulation for pregnant and lactating sow							
IV week lectures	Nutrition of lactating sows							
IV week exercises	Calculation of feed consumption per kg of live weight gain and per kg produced piglets weaned at different times							
V week lectures	Gilts and boars nutrition							
V week exercises	Calculation of the minimum content of amino acids in a supplementary mixtures for pigs							
VI week lectures	Piglets nutrition							
VI week exercises	Colloquium I							
VII week lectures	Nutrition of growing pigs							
VII week exercises	Requirements and feed formulation for piglets and growing pigs							
VIII week lectures	Specificity of poultry nutrition. Test I							
VIII week exercises	Requirements and feed formulation for poultry							
IX week lectures	Nutrition of chicken breeding stock, laying hens used for breeding stock, and roosters used as breeding stock. Correction test							
IX week exercises	Requirements and feed formulation for nutrition of chickens, hens and laying hens for breeding, male breeding animals							
X week lectures	Offspring nutrition and nutrition of layers and broilers							
X week exercises	Requirements and feed formulation for layers and broilers							
XI week lectures	Nutrition of turkeys							
XI week exercises	Requirements and feed formulation for turkeys							
XII week lectures	Geese, ducks and other poultry nutrition							
XII week exercises	Requirements and feed formulation for geese, ducks and other species							
XIII week lectures	Nutrition of horses and other equine animals							
XIII week exercises	Colloquium II							



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XIV week le	ctures	Nutrition of rabbits, furry animals, laboratory animals, dogs and cats							
XIV week ex	xercises	Correctional colloquium I and II							
XV week led	ctures	Nutrition of wild boar and feathered game							
XV week ex	ercises	Field work - Visit the farm of pigs or poultry							
Student w	orkload	A week: $3+2$ 7 kredita x $40/30 = 9$ sati i 20 minuta Struktura: 3 sata predavanja 2 sata vježbi 4 sata i 20 minuta individualnog rada studenata ukljucujuci i konsultacije U semestru Nastava I završni ispit: (9 sati i 20 minuta) x $16=149$ sati i 20 minuta Neophodna priprema prije pocetka semestra (administracija, upis, ovjera) 2 x (9 sati i 20 minuta) = $18$ sati i 40 minuta Ukupno opterećenje za predmet $7x30 = 210$ sati Dopunski rad: Rad za pripremu ispita u popravnom ispitnom roku, uključujući i polaganje popravnog ispita od $0-42$ sata. Struktura opterećenja: $149$ sati i 20 minuta (nastava) + $18$ sati i 40 minuta (priprema) + $42$ sata (dopunski rad):							
Per week			Per semester						
7 credits x 40/30=9 hours and 20 minuts 3 sat(a) theoretical classes 1 sat(a) practical classes 1 excercises 4 hour(s) i 20 minuts of independent work, including consultations			Classes and final exam:  9 hour(s) i 20 minuts x 16 =149 hour(s) i 20 minuts  Necessary preparation before the beginning of the semester (administration, registration, certification):  9 hour(s) i 20 minuts x 2 =18 hour(s) i 40 minuts  Total workload for the subject:  7 x 30=210 hour(s)  Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item)  42 hour(s) i 0 minuts  Workload structure: 149 hour(s) i 20 minuts (cources), 18 hour(s) i 40 minuts (preparation), 42 hour(s) i 0 minuts (additional work)						
Student obligations			the presence of lectures and exercises, tests, seminar paper						
Consultations			2 hours during the week (after lectures)						
Literature			Jokić, Ž., Kovčin, S., Joksimović-Todorović, M. (2004): Ishrana živine. Univerzitet u Beogradu, Poljoprivredni fakultet; Đorđević, N., Makević, M., Grubić, G., Jokić, Ž. (2009): Ishrana domaćih i gajenih životinja. Univerzitet u Beogradu, Poljoprivredni						
Examination methods			Lectures and Practical activity - 5 points; Essay - 5 points; Test and exam colloquium 20 each - 40 points total; Exam - 50 points; Minimal number of cumulative points is 50. Score: A ( Points: A ( $\geq$ 90 to 100 points); B ( $\geq$ 80 to < 90); C ( $\geq$ 70 to < 80); D ( $\geq$ 60 to < 70); E ( $\geq$ 50 to < 60); F < to 50						
Special remarks									
Comment									
Grade:	F	Е	D	С	В	А			
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points			