RATION FORMULATION										
1	Course Title:	RATION FORMULATION								
2	Course Code:	VHB6002								
3	Type of Course:	Optional								
4	Level of Course:	Third Cycle								
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	6.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	2.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Prof. Dr. ŞULE BAYRAMİÇ								
15	Course Lecturers:	Doç. Dr. Çağdaş KARA								
16	Contact information of the Course Coordinator:	scengiz@uludag.edu.tr, +902242941365, Uludağ Üniversitesi Veteriner Fakültesi Hayvan Besleme ve Beslenme Hastalıkları Anabilim Dalı, Görükle Kampüsü, Nilüfer-Bursa/Türkiye								
17	Website:	http://saglikbilimleri.uludag.edu.tr/anabilimdallari.php								
18	Objective of the Course:	To educate specialists who have knowledge about the principles and techniques of rations for farms and feed manufactures and the allowances of feedstuffs in various rations and who formulate rations for different animal species with different ages, especially for poultry and ruminant rations.								
19	Contribution of the Course to Professional Development:	It contributes to questioning the problems related to nutritional deficiencies from a scientific point of view and producing solutions. At the same time, the ability to analyze the feeding applications of animal production and breeding with an economic understanding is gained.								
20	Learning Outcomes:									
		1	Knowledge the description of ration, balanced rations and feeding standards							
		2	The knowledge about the factors related with animal, feed and economy affecting ration formulation							
		3	Gain the ability to prepare formulations of rations with using feedstuffs in farms and feed plants for different animal species with different ages							
		4	Advances to balance the levels of feedstuffs and feed additives in rations							
		5	Learns the formulation of rations by using computer and the importance of computer in ration formulation							
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		7								
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		9								
	O Ott	10								
21	Course Content:		Contont.							
\\/ a = 1	Theoretical	Co	ourse Content:							
week	Week Theoretical Practice									

3	Ration adjustment methods Ration adjustment for calf		Comparison of adjustment methods Formulations of calf starter and calf grower feeds.						
4	Ration adjustment for heifers		Formulations of Heifers ration.						
5	Ration adjustment for dairy cows		Adjustment of ration according to lactation periods.						
6	Ration adjustments for dry cows		Formulation of feeds for dry cows						
7	Ration adjustment for beef cattle		Adjustment of ration according to fattening method and fattening period.						
8	Ration adjustment for sheep		Formulations of lamb starter and grower feed. Adjustment of ration for dairy sheep. Ration adjustment in flushing period.						
9	Ration adjustment for goats		Goat starter and goat grower feed adjustment. Ration adjustment in flushing period.						
10	Ration adjustment for broilers		Broiler starter ration						
11	Ration adjustment for broilers (contin	ues):	Broiler grower and finish	ner rations.					
12	Ration adjustment for laying hens		Pre-layer rations						
13	Ration adjustment for laying hens (co	ntinues)	Layer rations.						
14	Ration adjustment for turkey and qua	il	Turkey and quail rations	.					
22	Textbooks, References and/or Other Materials:		Feeds and Nutrition. Ensminger M.E, Oldfield J.E, Heinemann W.W, Ensminger Publishing Co Nutrient Requirements of Dairy Cattle, NRC, 7th revised						
Activit	es		Number	Duration (hour) Total Wor Load (hou					
Theore	tical		14 Recent Developments in	2.00 Poultry Nutrition, I	28.00 D.J.A. Cole, W.				
Practic	als/Labs		14	2.00	28.00				
Sel3stu	dysand preperation		14	8.00	112.00				
Homew	vorks		2	5.00	10.00				
Priolect	n Exam	0	0.80	0.00	0.00				
Field S	tudies		0	0.00	0.00				
Midter	workams _{ject}	0	0.00	0.00	0.00				
Others			0	0.00	0.00				
Final E	xams	1	100.00	3.00	3.00				
Total W	/ork Load				181.00				
\$utade@	ser@teale/ 30 hr				6.03				
ECTS (Credit of the Course				6.00				
Total			100.00						
Measur Course	•	sed in the	Measurement and evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.						
24 ECTS / WORK LOAD TABLE									
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS									

PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2

ÖK3	5	5	4	5	5	5	5	5	4	3	3	4	0	0	0	0
ÖK4	5	4	4	5	5	4	5	5	3	3	3	4	0	0	0	0
ÖK5	5	4	4	5	4	5	4	4	4	4	3	3	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:		2	2 low	3 M		3 Medium		4 High		5 Very High						