

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Ration Formulation Principles and Techniques					
Course Code	VHB502	Couse Level	ouse Level Second Cycle (Master's Degree)			
ECTS Credit 7	Workload 176 (Hours)	Theory 2	Practice	2	Laboratory	0
Objectives of the Course The main concept is educate masters who got knowledge about the basic principles and techniques of ration preparation for farms and feed factory, amount of feeds for different rations, prepare proper ration formulations for different animal species including poultry and ruminant.						
		d basic principles. Stand ration preparation. Rat				
Work Placement	N/A					
Planned Learning Activities	and Teaching Methods	Explanation (Presenta Problem Solving	ation), Demonst	ration, Discu	ssion, Individual S	Study,
Name of Lecturer(s)						

Assessment Methods and Criteria					
Method	Quantity	Percentage (%)			
Midterm Examination	1	28			
Final Examination	1	60			
Assignment	10	12			

Recommended or Required Reading

- Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yalçın, S., Yıldız, G., Küçükersan, M.K., Küçükersan, S., Şehu, A. (2008) Hayvan Besleme ve Beslenme Hastalıkları, Pozitif Matbaacılık, Ankara.
- 2 Kılıç, A. (1988) Yemler ve Hayvan Besleme, Bilgehan Basımevi, İzmir.
- 3 Aksoy, A., Macit M., Karaoğlu, M. (2000) Hayvan Besleme, Atatürk Üniversitesi Ziraat Fakültesi Yayınları, Erzurum.
- 4 Sarı, M., Çakmak, M.N. (1996) Balık Besleme, Fırat Üniversitesi Matbaası, Elazığ.

Week	Weekly Detailed Cour	se Contents			
1	Theoretical	Selection of feed			
2	Theoretical	Determine of nutrient requirements			
3	Theoretical	Determine of nutrient requirements			
4	Theoretical	Technique of ration preparation (method of Pearson Square)			
5	Theoretical	Technique of ration preparation (method of two unknown equation)			
6	Theoretical	Technique of ration preparation (method of trial and error)			
7	Theoretical	Technique of ration preparation (method of trial and error)			
8	Intermediate Exam	Midterm exam			
9	Theoretical	Ration formulation for dairy cattle			
10	Theoretical	Ration formulation for dairy cattle			
11	Theoretical	Ration formulation for beef cattle			
12	Theoretical	Ration formulation for sheep and goats			
13	Theoretical	Ration formulation for laying hens			
14	Theoretical	Ration formulation for broilers			
15	Theoretical	Ration formulation for horses			

Workload Calculation							
Activity	Quantity	Preparation	Duration	Total Workload			
Lecture - Theory	14	0	2	28			
Lecture - Practice	15	0	2	30			
Assignment	10	0	3	30			
Reading	14	4	0	56			
Midterm Examination	1	12	2	14			



Final Examination	1	16	2	18
		To	tal Workload (Hours)	176
		[Total Workload (Hours) / 25*] = ECTS	7
*25 hour workload is accepted as 1 ECTS				

Learn	ning Outcomes
1	Determination of ration, balance ration and nutrition standards.
2	Express of energy and nutrient requirements in different forms.
3	Knows that factors which affecting ration formulation and about animal, feed and economy.
4	Calculate of energy and nutrient requirements of animals.
5	Knows that usage amount of feeds and feed additives.
6	Knows that technique of ration formulations.

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Progr	amme Outcomes (Animal Nutrition and Nutritional Diseases (Veterinary Medicine) Master)
1	to be able to comprehend information about basic animal nutrition and feeds for protecting animal health, scientific and technological animal production.
2	to be able to formulate economical and full-satisfactory rations with considering product quality and health and inform animal producers about practical/appropriate feeding methods.
3	to be able to apply recent scientific and technological developments in animal nutrition easier and produce proper strategies against to problems on this field.
4	to be able to analyse the properties of feeds used in proper and economical rations formulated due to needs of animal species.
5	to be able to inform animal producers about the common feedstuffs used in animal nutrition
6	to be able to interpret physical, diagnostic and chemical analysis methods used in determinin feed quality.
7	to be able to comprehend processing and the effects of processing on animal yield.
8	to be able to identify the term "feed hygiene" and have information about the usage availability of contaminated feedstuffs.
9	to be able to apply the informations related to feed additives in a proper way.
10	to be able to formulate the results and factors decreasing production.
11	to be able to apprehend the nutrition related diseases and their solution recommendations which may be applied in feeding or formulating feeds for preventing nutritional diseases.

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	LT	L2	L3	L4	L5	L6
P1	5	5	5	5	5	
P2			5	5		5
P3	5	5	5	5	5	5
P4			5	5	5	
P5			5		5	
P9					5	

