



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Feed Science							
Course Code		VHB501		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	7	Workload	176 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		<p>Teaching of basic concept of feed knowledge and introducing of feeds which are using for animal nutrition and classification of feeds.</p> <p>Give specific information about how and which amount of nutrient find in feeds.</p> <p>Teaching amount of administration of feeds for animal nutrition.</p> <p>Teaching of antinutrition factors of feeds and explains of methods for animal health protection.</p> <p>Teaching of differences of digestibility of feeds and teaches the importance of this issue for animal nutrition.</p> <p>Teaching of feed hygiene on basis of biotic and abiotic deterioration and teaches the importance of this issue for animal nutrition.</p> <p>Teaching of increase of feed digestibility and consumption methods and give information about the methods for storage of feeds for long time periods and give information about feed forms.</p> <p>Organoleptic inspection of feeds for determination of feed worthiness and understanding of give the basic information about the methods of physical and chemical analysis.</p> <p>Teaching of relationship of feed hygiene and technology with animal health or economic livestock rearing.</p>							
Course Content		<p>Relation of feed-animal. Factors which affect of feed worthiness and nutrient quality. Meadow-grassland, fodder crop culture and other green feeds.</p> <p>Conserve feeds. Ballast feeds. Root and tuber feeds. Grain feeds. By products of milling, oil, sugar, starch and fermentation industry. Animal by products.</p>							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Individual Study, Problem Solving					
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

1	Ergün, A., Tuncer, Ş.D., Çolpan, İ., Yalçın, S., Yıldız, G., Küçükersan, M.K., Küçükersan, S., Şehu, A. (2004) Yemler, Yem Hijyeni ve Teknolojisi, Pozitif Matbaacılık, Ankara.
2	Ergül, M. (1988) Yemler Bilgisi ve Teknolojisi, Ege Üniversitesi Basımevi, İzmir.
3	Kılıç, A. (1988) Yemler ve Hayvan Besleme, Bilgehan Basımevi, İzmir.
4	Coşkun, B., Şeker, E., İnal, F. (2000) Yemler ve Teknolojisi, Selçuk Üniversitesi Veteriner Fakültesi Yayın Ünitesi, Konya.
5	Ensminger M.E., Olentine C.G. (1980) Feeds and Nutrition, The Ensminger Publishing Company, California.
6	McDonald, P., Edwards R.A., Greenhalgh J.F.D. (1990) Feeds and Feeding, Prentice Hall, New Jersey.

Week	Weekly Detailed Course Contents	
1	Theoretical	Notion of nutrient for feeds and animal nutrition, classify of feeds, form of nutrient in feeds and animal organism or compare of nutrient for form and amount in feeds
2	Theoretical	Differences of nutrient digestion between monogastric and ruminants / Determination of feed, classify of feeds; roughages, concentrates or mix feeds
3	Theoretical	Factors which are affection meadow and grassland, the basic issues for meadow management, meadow and animal health
4	Theoretical	The importance of Antioxidant and preservative feed additives
5	Theoretical	Forage feed
6	Theoretical	Forage feed
7	Theoretical	Concentrate Feedstuffs
8	Theoretical	Midterm exam
9	Theoretical	Feed Hygiene



10	Theoretical	Industrial by-products
11	Theoretical	Industrial by-products
12	Theoretical	Alternative Feedstuffs and Feed Grade Oils
13	Theoretical	Alternative Feedstuffs and Feed Grade Oils
14	Theoretical	Feed Additives
15	Theoretical	Industrial by-products

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	0	4	56
Midterm Examination	1	12	2	14
Final Examination	1	16	2	18
Total Workload (Hours)				176
[Total Workload (Hours) / 25*] = ECTS				7

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Student has information about to feeds which are important for the correct animal nutrition, protection of animal health, economical and scientific livestock management.
2	Student knows that properties of feeds for prepare economic ration and satisfy of nutrient requirement of animal species.
3	Student knows that proper amount and species of feeds for different animal species.
4	Student knows that methods of organoleptic, physical and chemical analysis for determination of feed quality.
5	Student knows that properties of feeds which are commonly used in Turkey for animal nutrition and can give information to farmers.

Programme 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 nutritonal diseases.

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

	L1	L2	L3	L4	L5
P1	5		5		5
P2		5	5		
P3	5	5	5		5
P4	5	5	5		5
P5	5	5	5		5
P6				5	

