



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Feed Analysis							
Course Code		LBT214		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	1	Laboratory	0
Objectives of the Course		Evaluation techniques with various analysis methods of feeds to inform.							
Course Content		Used to determine the feed value of physical, chemical and biological analysis methods, and estimation of energy value of feed to give basic information about.							
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	40
Final Examination	1	70

Recommended or Required Reading

1	Özkul, H. 2010. Yem analiz ve değerlendirme tekniği (ppt sunum). İzmir.
2	Bulgurlu, Ş., Ergül, M. 1978. Yemlerin fiziksel, kimyasal ve biyolojik analiz metodları, Ege Üniv. Zir. Fak. yayınları no:127, İzmir.
3	Özkul, H. ve Y. Şayan, 1996. Bazı Saman Çeşitlerinin Yem Değerlerinin Nylon Torba Tekniği ile Belirlenmesi. Ege Üniv. Ziraat Fak. Derg.
4	Özkul, H., Y. Şayan, T. Çapçı, 2000. Ruminantlarda Yem Metabolik Enerji Değerinin Belirlenmesinde Kullanılan Bazı Yöntemler. International Animal Nutrition Congress, 4-6 September, Isparta, Turkey, 111-117.
5	Alçıçek, A. ve H. Özkul, 2000. Ruminantlarda Yürütülen Sindirim Denemelerinde Üniformitenin Sağlanması. International Animal Nutrition Congress, 4-6 September, Isparta, Turkey, 127-131.

Week	Weekly Detailed Course Contents	
1	Theoretical	Feed value and quality
2	Theoretical	The methods and techniques used in determination of the feed value
3	Theoretical	Biological analysis methods and in vivo metabolizable energy value of feed accounts
4	Theoretical	Physical analysis methods
5	Theoretical	Chemical analysis of feed preparation, chemical analysis method; Weende analysis methods
6	Theoretical	Dry matter and Crude ash analysis
7	Theoretical	Crude protein and Crude fat analysis
8	Intermediate Exam	Mid-term Exam
9	Theoretical	Crude fiber analysis ve in vitro metabolizable energy value of feed accounts
10	Theoretical	Chemical analysis method; Van Soest analysis methods and in vitro metabolizable energy value of feed accounts
11	Theoretical	Chemical analysis method; Gas Production technique and in vitro metabolizable energy value of feed accounts
12	Theoretical	Chemical analysis method; Enzymatic method and in vitro metabolizable energy value of feed accounts
13	Theoretical	In situ methods; nylon bag technique
14	Theoretical	NIRS method (Near Infrared Reflection Spectroscopy of Light)
15	Theoretical	Comparison of the methods used to estimation metabolizable energy value of feeds
16	Theoretical	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	1	14



Midterm Examination	1	2	1	3
Final Examination	1	4	1	5
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Feed analysis and evaluation techniques can have enough information about,
2	Methods, mathematical models or approach used in the feed analysis, to apply,
3	Feed analysis and evaluation techniques in the preparation and conduct research projects,
4	Feed on analysis and evaluation techniques to monitor scientific developments and gain the ability to transfer them to animal production,
5	Studies on feed analysis methods in the duties as individuals and team members to take active roles as.

Programme Outcomes (Laboratory Technology)

1	To be able to comprehend social, cultural and social responsibilities, to be able to follow national and international contemporary problems and developments
2	Atatürk is bound to Atatürk nationalism in the direction of principles and reforms; Adopting the national, moral, spiritual and cultural values of the Turkish people, open to universal and contemporary developments, the Turkish language is a rich, rooted and productive language; Have a love of language and a consciousness; To have the ability to use as much of a foreign language as he would need to read, taste and habit and professionally.
3	To be able to recognize the basic hardware units and operating systems of a computer, having information about internet usage and preparing documents, spreadsheets and presentations on computer by using office programs.
4	Acquires theoretical and practical knowledge at the basic level in mathematics, science and vocational field.
5	With the knowledge of laboratory technology in the field, he knows and analyzes problems, brings interpretation of data and suggests solutions.
6	In laboratories, according to the prepared business plan and program, necessary work can be done to obtain the desired quality products.
7	To have professional and ethical responsibility in business life.
8	Development and change are open, follow scientific social and cultural innovations, and develop themselves constantly.

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	3	3			
P2	3	3			
P5	3	3	3		
P6			4		3
P7	4	4	4	4	4
P8	4	4	4		4

