

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Udder Traits a	nd Lactation							
Course Code		VZO534		Couse Level		Second Cycle (Master's Degree)				
ECTS Credit	4	Workload	95 (Hours)	Theory	/	2	Practice	0	Laboratory	0
Objectives of the Course		To teach the udder development, milk synthesis and downloading, lactation characteristics								
Course Content		The udder development and morphological structure, milk synthesis, lactation and lactation curve, factors effecting lactation, dry period, service period, milk yield records.							e, factors	
Work Placement		N/A								
Planned Learning Activities a		and Teaching	Methods	Explan	atior	n (Presentat	tion), Individua	al Study		
Name of Lecturer(s)										

Assessment Methods and Criteria

Method	Quantity	Percentage (%)	
Midterm Examination	1	40	
Final Examination	1	60	

Recommended or Required Reading

1	Alpan, O. (1994): Sığır Yetiştiriciliği ve Besiciliği. Şahin matbaası, Ankara.
2	Homan, J.E., Wattiaux, M.A. (2006): Laktasyon ve Sağım. Adnan Menderes Üniversitesi Yayın no: 29
3	Wing, M.J. (1963): Dairy cattle Management principles and Aplications. Reinhold Publishing Corporation, New York.
4	Hogeveen, H. (2005): Mastitis in Dairy Production. Wageningen Academic Publishers, The Netherlands.
5	Haskell, R.R.S. (2008): Blackwell's Five-Minute Veterinary Consult: Ruminant. Wiley-Blackwell.
6	Battoglia, R.A. (2001): Handbook of, Livestock Management. Prentice-Hall International (UK)Limited, London
7	Aland, A., Madec, F. (2009): Sustainable Animal Production. Wageningen Academic Publishers, The Netherlands.

Week	Weekly Detailed Course Contents							
1	Theoretical	Udder development in all livestocks animals						
2	Theoretical	Morphological structure of udder in cattle						
3	Theoretical	Morphological structure of udder in sheep and goat						
4	Theoretical	The udder structure in lactation						
5	Theoretical	The udder structure in dry						
6	Theoretical	The neuro-hormonal mechanisms of udder						
7	Theoretical	The milk downloading						
8	Intermediate Exam	Midterm exam						
9	Theoretical	The milk withdrawal						
10	Theoretical	Lactation						
11	Theoretical	The factors effecting lactation						
12	Theoretical	Factors affecting of lactation						
13	Theoretical	Dry period and service period						
14	Theoretical	Udder and teat defects						
15	Theoretical	Hygiene of the udder						
16	Final Exam	Final exam						

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	2	0	10	20
Reading	1	0	30	30
Midterm Examination	1	5	1	6



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Final Examination	1		10	1	11	
	Total Workload (Hours)			95		
		[Total Workload (Hours) / 25*] = ECTS	4	
*25 hour workload is accepted as 1 ECTS						

Learn	_earning Outcomes								
1	Knows the udder development and morphological stru-	cture.							
2	Makes cleaning and disinfection of the udder.								
3	Knows the lactation curve and it's traits.								
4	Be taken dry period of cows and can apply caring of dr	y peric	od.						
5	Makes milk controls.								

Programme Outcomes (Animal Science (Veterinary Medicine) Master)

1	Knows basic principles of animal rearing and breeding.
2	Knows physiological and morphological traits of farm animals. He/she can achieve a successful herd management by means of transferring his/her knowledge to the rural area.
3	Knows management of the animals and can take required measurements in the farm. He/She controls the productivity in the farm and keeps all farm records.
4	Knows selection and culling methods.
5	He/She can involve in all stages of production in the farm. Knows how to establish and manage of farm enterprises. He/She can help to the entrepreneurs who will enter the farm business.
6	He/She can detect and eliminate hereditary defects and problems by using his/her basic genetic knowledge.
7	Knows production traits due to his/her knowledge about hereditary principles. He/She can achieve heifer selection and determine breeding strategies for maximum production.
8	He/She can involve as an expert in scientific researches, breeding programs and judicial issues with his/her knowledge about race determination, parenthood tests, blood groups etc.
9	Knows how to reach resources and knows selection criterions of scientific researches. He/She can systematically present data. Knows statistical concepts and how to can get data, and present those as figures and tables and how to comment them. Knows different statistical methods. He/She can design a topic as a scientific paper.
10	Knows animal behaviours. Knows legal directives about animal welfare and can design some facilities such as housing, feeding, transferring and slaughtering processes according to these directives.

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	1	1	1	1	1
P2	3	3	3	3	3
P3	4	4	4	4	4
P5	3	3	3	3	3
P10		2	1		1