AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Large Farm Animal Production						
Course Code		ZT305		Couse Level		First Cycle (Bachelor's Degree)		
ECTS Credit	4	Workload	100 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		Giving scientific, actuel and practical information about large farm animal production						
Course Content		Giving scientific, actuel and practical information about cattle production in the world and in Turkey, cattle breeds, reproduction in cattle, calf rearing, management ant nutrition of replacement heifers, udder system and lactation, body condition scoring, macnine milking and mastitis, beef production and buffalo production.						
Work Placement		N/A						
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study					
Name of Lecturer(s)		Prof. Atakan KOÇ						

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	1. Homan, E.J, M.A. Wattiaux. 2008. Teknik Süt Sığırcılığı Rehberi. Çeviri Ed: A.G.Önol. ADÜ Yayın No:29
2	2. Özhan, M., N. Tüzemen, M. Yanar. 2011. Büyükbaş Hayvan Yetiştirme (Süt ve Et Sığırcılığı). Atatürk Üniv. ZF Yayın No: 134.
3	3. Fries, R, A. Ruvinsky. 1999. The Genetics of Cattle. CABI Publishing.
4	Phillips, C.J.C. 2001. Principles of Cattle Production. CABI Publishing.
5	Mustafa A. 2012. Dairy Cattle Production Course Text. http://animsci.agrenv.mcgill.ca/courses/450/
6	Battaglia, R.A. 2000. Handbook of Livestock Management. Prentice Hall. Upper Saddle River, New Jersey.

Week	Weekly Detailed Course Contents	
1	Theoretical	Cattle and Buffalo production in the world and in Turkey
	Practice	Introducing the cattle production unit of the faculty
2	Theoretical	Cattle farm types of Turkey
	Practice	Cattle barns and their divisions
3	Theoretical	Cattle breeds
	Practice	Presentation of cattle breeds
4	Theoretical	Reproduction in cattle
	Practice	Reproduction activities in cattle
5	Theoretical	Reproduction in cattle
	Practice	Insemination, calving
6	Theoretical	Calf rearing
	Practice	Management of newborn calf and dehorning of calf
7	Theoretical	Rearing replacement heifers
	Practice	Body parts and measurements of cattle
8	Practice	Determination of cattle age
	Intermediate Exam	Midterm exam
9	Theoretical	Mammary system and lactation
	Practice	Identification of cattle
10	Theoretical	Milk syntesis
	Practice	Evaluation of milk production data
11	Theoretical	Body condition score in cattle
	Practice	Body condition scoring in cattle
12	Theoretical	Machine milking and mastitis

12	Practice	Machine milking practice
13	Theoretical	Beef production from cattle
	Practice	CMT test
14	Theoretical	Beef production from cattle
	Practice	Microscobic somatic cell count
	Laboratory	Microscobic somatic cell count analysis and counting
15	Theoretical	Buffalo production
	Practice	Classification of slaugtering cattle
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Midterm Examination	1	16	1	17
Final Examination	1	26	1	27
			Total Workload (Hours)	100
			[Total Workload (Hours) / 25*] = **ECTS**	4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to apprehend the importance of cattle in human nutrition
2	To be able to recognise and find out the characteristics of cattle breeds raised in Turkey
3	To be able to have enough knowledge about herd management in dairy cattle
4	To be able to gain ability about calf and replacement of heifer rearing
5	To be able to gain ability about beef production
6	To be able to gain ability to prevent cattle from diseases
7	To be able to have enough knowledge about buffalo production

Programme Outcomes (Dairy Technology)

1	Having sufficient infrastructure in basic sciences and engineering subjects and ability to use the theoretical and applied info instantly in this field.
2	Determining the modern techniques, tools and information technologies required for applications related with his field and ability to use them efficiently
3	Ability for planning, projecting, and designing, following up, analyzing and finding target-driven solutions related with his field
4	Ability to have professional ethic and awareness.
5	Ability to work, decide, express opinions orally and in written individually
6	Ability to participate team studies, taking responsibility, making leadership.
7	Ability to conceive Ataturk's principles and reforms, to communicate in Turkish and foreign language.
8	Ability to comprehend the necessity to learn for a life time, to monitor developments in science and technology and continuously renew himself.
9	Having sufficient level of information about production and quality control of milk and dairy products and also product development, increasing product quality and food security fields.
10	Ability to detect, define, solve problems related with his field and to select and apply suitable methods and modeling techniques for this purpose.
11	To be conscious about workplace applications, worker health, work security and environment subjects, to have knowledge about legal results of the engineering applications related with his subject.

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

	L1	L2	L3	L4	L5	L6	L7
P1	5	5	5	5	5	5	5
P8	5	5	5	5	5	5	5