AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Nutritional Management in Dairy Cattle						
Course Code	ZT454			Couse Level	First Cycle (Bachelor's Degree)		
ECTS Credit	2	Workload	49 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Feeding strategies of dairy cattle nutrition, control points and its affect on milk and reproductive performances, relationships between nutritional management and farm costs						
Course Content	Description of nutritional management, relationships between production and nutrition, barns, farm equipments, manger, waterer, grouping strategies, in-barn conditions, cow confort, manger management, water management, manure scoring, critical points on ration formulation						
Work Placement	N/A						
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study, Problem Solving			
Name of Lecturer(s)	Lec. Hulusi AKÇAY						

Prerequisites & Co-requisites

Prerequisite	ZT303

Assessment Methods and Criteria

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

Recommended or Required Reading

1	1. Brand et al.,2001. Herd health and production management in dairy practice. Wageningen Press

Week	Weekly Detailed Course Contents	
1	Theoretical	What is "nutritional management" in dairy cattle?
2	Theoretical	Introduction of barn structures
3	Theoretical	Equipments and tools related nutrtion
4	Theoretical	Manger and water troughs
5	Theoretical	Grouping strategies
6	Theoretical	Climatic conditions in barn
7	Theoretical	Cow comfort
8	Intermediate Exam	Exam
9	Theoretical	Daily labor schedule
10	Theoretical	Manger management
11	Theoretical	Ration formulation
12	Theoretical	Ration formulation
13	Theoretical	Manure examination
14	Theoretical	Manure examination
15	Theoretical	Final evaluation
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	16	0	2	32
Midterm Examination	1	5	1	6
Final Examination	1	10	1	11
			Total Workload (Hours)	49
			[Total Workload (Hours) / 25*] = **ECTS**	2

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to have knowledge about nutritional management of dairy cattle
2	To be able to plan daily works in dairy cattle feeding
3	To be able to check critical control points in farm
4	to be able to recognize the needs of dairy cattle except nutritional requirements and their effects
5	to be able to comprehend the national and international legislations on animal 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
P1	4	4	4	4	4
P3	4	4	4	4	4
P8	4	4	4	4	4
P10	4	4	4	4	4