

# ZOOTECHNICS I

1	Course Title:	ZOOTECHNICS I
2	Course Code:	VET2017
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	3
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. Metin Petek
15	Course Lecturers:	Prof.Dr. Serdal DİKMEN Prof. Dr. Abdulkadir ORMAN Araş. Gör. Dr. Fazlı ALPAY Araş. Gör. Dr. Enver ÇAVUŞOĞLU
16	Contact information of the Course Coordinator:	petek@uludag.edu.tr Bursa Uludağ Üniversitesi Veteriner Fakültesi Zootečni Anabilim Dalı
17	Website:	
18	Objective of the Course:	To educate qualified students in the field of basic cattle and chicken breeding theoretically and practically
19	Contribution of the Course to Professional Development:	To contribute on qualified students in the field of basic cattle and chicken breeding theoretically and practically
20	Learning Outcomes:	
	1	The student learns; structure of cattle breeding, selection cows and bulls for stock, breeding value, learning breeding index, progeny testing
	2	calf, steer, heifer and cow breeding and managing
	3	beef cattle breeding techniques
	4	management systems in dairy and beef cattle and animal welfare
	5	general structure of poultry industry in animal production, breeder house, husbandry management practises in breeder production
	6	basic knowledge about the hatchery management, incubation requirements, embryonic development and hatch
	7	layer house and housing conditions, management of layer genotypes
	8	broiler houses and housing conditions, management of broiler genotypes
	9	
	10	
21	Course Content:	
	Course Content:	

Week	Theoretical	Practice
1	Cattle breeding in Turkey and the World, position of cattle in zoological system, the morphological and physiological characters of main cattle breeds in the world and Turkey	Introduction of cattle breeding unit
2	Selection of dairy cow and sire, breeding value, breeding index	To show morphological characters of dairy and beef cattle breeds
3	Dairy cattle breeding techniques, records and production controls, insemination, reproduction, calving, herd management,	Records and production controls (insertion of ear tag and dehorning of calf)
4	Dairy cattle; Type scoring and body condition scoring	Type scoring and body condition scoring
5	Calf, steer, heifer and cow management	Breeder cow and bull selection
6	Stock management, thermal zone tolerance, management before calving, transportation, animal welfare.	Calf, steer, heifer and cow management
7	Lactation, milk composition, factors affecting milk production, milking techniques	Type scoring of bull and cow, body condition scoring of dairy cow.
8	Beef cattle breeding, type scoring, carcass and slaughter properties, housing systems	Milking techniques and hygiene
9	General structure of poultry industry in animal production, main scientific and technological developments contributed to modern poultry production industry.	Measuring body weight, carcass and slaughter properties
10	Modern broiler and layer genotypes, breeder houses, production goals in breeder	Introduction to broiler and layer genotypes raise in Faculty Farm.

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical			
chick quality, factors effecting hatchery performance, economic productivity.	14	3.00	42.00
Practicals/Labs	14	2.00	28.00
Self study			
program for the layer chicks, pullet and hens, pecking.	4	4.00	56.00
Homeworks	0	0.00	0.00
Projects			
Broiler genotypes, broiler houses, preparing of the house for the chicks, managing incubators and its characteristics. Characteristics of non-laying hens. Selection and reformation in layer hens.	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	15.00	15.00
Total Work Load			151.00
Total work load/ 30 hr			5.03
ECTS Credit of the Course			5.00

		The Laying Hen: Systems of Egg Production in Welfare of Laying Hen, Perry G.C., Oxfordshire UK 2004 Poultry Genetics, Breeding and Biotechnology, Muir, W.M., Aggrey, S.E. CABI 2003 Poultry Behaviour and Welfare, Appleby, M.C., Mench, J.A., Hughes, B.O., CABI 2004 Tavuk Yetiştiriciliği. Aksoy FT, Şahin Matbaası, Ankara, 1999
--	--	--

<b>23</b>	Assesment	
TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	30.00
Quiz	1	10.00
Home work-project	0	0.00

Final Exam	1	60.00
Total	3	100.00
Contribution of Term (Year) Learning Activities to Success Grade	40.00	
Contribution of Final Exam to Success Grade	60.00	
Total	100.00	
Measurement and Evaluation Techniques Used in the Course	Exams and problem-based learning with research and project-based learning techniques	

## 24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	1	2	2	5	5	5	1	1	1	1	3	0	0	0	0
ÖK2	5	1	2	2	5	5	5	1	1	1	1	3	0	0	0	0
ÖK3	5	1	2	2	5	5	5	1	1	1	1	3	0	0	0	0
ÖK4	5	1	2	2	5	5	5	1	1	1	1	3	0	0	0	0
ÖK5	5	1	2	2	5	5	5	1	1	1	1	3	0	0	0	0
ÖK6	5	1	2	2	5	5	5	1	1	1	1	3	0	0	0	0
ÖK7	5	1	2	2	5	5	5	1	1	1	1	3	0	0	0	0
ÖK8	5	1	2	2	5	5	5	1	1	1	1	3	0	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							