AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Biomechanic of Locomotor Apparatus							
Course Code		VAN636		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	4	Workload	100 *(Hours)*	Theory	1	Practice	2	Laboratory	0
Objectives of the Course		The purpose of this course is to obtain general information about the biomechanical testing and evaluation methods in the animals locomotor system							
Course Content		The purpose of this course is to obtain general information about the biomechanical testing and evaluation methods in the animals locomotor system							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)		Assoc. Prof. Figen SEVİL KİLİMCİ							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	ÖCAL, M.K., ERDEN, H., ÖĞÜT, İ., KARA, M.E "Anatomy of the Domestic Animals (General-Skin-Forelimb)." Adnan Menderes University Press No: 5 (1998)
2	ÖCAL, M.K., ÖĞÜT, İ., KARA, M.E "Anatomy of the Domestic Animals (Trunk)." Adnan Menderes University Press No: 11 (1999)
3	DURSUN, N "Veterinary Anatomy I" Medisan Press (1996)

Week	Weekly Detailed Course Contents	
1	Theoretical	General features of locomotor system
	Practice	Examination of resources
2	Theoretical	Bone types and functional properties
	Practice	Application on skeleton
3	Theoretical	Types of joints and functional properties
	Practice	Application on skeleton
4	Theoretical	Functional properties of muscles
	Practice	Application on skeleton
5	Theoretical	Basic concepts in biomechanics
	Practice	Interpretation of force-strain and strain-strain curves
6	Theoretical	Preparation of materials for biomechanical tests
	Practice	Sample preparation
7	Theoretical	Preparation of materials for biomechanical tests
	Practice	Sample preparation
8	Intermediate Exam	midterm
9	Theoretical	General information about biomechanical testing methods of bones
	Practice	Introduction of mechanical test devices, discussion of mechanical test methods in literature and literature
10	Theoretical	General information about biomechanical testing methods in muscles, tendons and joints
	Practice	Introduction of mechanical test devices, discussion of mechanical test methods in literature and literature

11	Theoretical	Gait and some other movement evaluation methods
	Practice	Discussion of motion evaluation methods in visual sources
12	Theoretical	Biomechanical simulations in computer environment
	Practice	Demonstration of laboratory applications
13	Theoretical	Biomechanical simulations in computer environment
	Practice	Demonstration of laboratory applications
14	Theoretical	Literature discussion
	Practice	Demonstration of laboratory applications
15	Theoretical	Homework discussion
	Practice	Demonstration of laboratory applications
16	Final Exam	final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	2	0	14	28
Lecture - Practice	3	0	14	42
Midterm Examination	1	19	1	20
Final Examination	1	9	1	10
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = **ECTS**				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Functional anatomy of the organs and tissues of the locomotor system
2	General information about the biomechanical testing and evaluation methods
3	to be able to know the literature in the field of biomechanics
4	to have knowledge about biomechanical devices
5	know preparation procedures in biomechanical applications

Programme Outcomes *(Anatomy (Veterinary Medicine) Doctorate)*

1	Doing research in any specific issues related to anatomy, planning a study, evaluating and presenting a report on the scientific area, independently.
2	To be able to improve themselves by innovations of the Anatomy
3	Sharing their concepts in seminar, symposium, conference etc. by using the skills of self study.
4	Having the scientific and vocational wafer and defending this apprehension in every medium
5	To be able to interpret what they have learned in the field of veterinary anatomy

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	5	5	4	5	4
P2	5	5	4	5	4
P3	5	5	4	5	4
P4	5	5	4	5	4