



AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES
VETERINARY PHYSIOLOGY
PHYSIOLOGY (VETERINARY)
PHYSIOLOGY (VETERINARY) MASTER
COURSE INFORMATION FORM

Course Title	Immune Physiology								
Course Code	VFZ524		Course Level		Second Cycle (Master's Degree)				
ECTS Credit	4	Workload	100 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To learn functions of immune cells which are responsible for the formation of the immunity								
Course Content	Innate and aquired immunity, humoral immunity and the antibodies, tymus and bone marrow, passive immunity, allergy								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Individual Study, Problem Solving								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	38
Final Examination	1	60
Quiz	3	1
Term Assignment	1	1

Recommended or Required Reading	
1	Shetty N. (2005). Immunology. Introductory Textbook. New Age International Publishers
2	Gregory Stewart G. (2004). The Immune System Chelsea House Publishing

Week	Weekly Detailed Course Contents	
1	Theoretical	Cells which are responsible for immunity -I
2	Theoretical	Cells which are responsible for immunity -II
3	Theoretical	Cells which are responsible for immunity -III
4	Theoretical	Function of lymphocytes in immunity
5	Theoretical	Innate immunity-I
6	Theoretical	Innate immunity-II
7	Theoretical	Allergy
8	Theoretical	Midterm
9	Theoretical	Acquired immunity-I
10	Theoretical	Acquired immunity-II
11	Theoretical	Lymphocyte subsets
12	Theoretical	Important plasma proteins in immunity
13	Theoretical	Opsonization
14	Theoretical	Cell activation in immunity
15	Theoretical	Presentations

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	4	8	1	36
Term Project	1	15	1	16
Quiz	3	0	1	3
Midterm Examination	1	6	1	7



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	To be informed about immune system cells
2	To be informed about mechanisms regarding formation of immunity
3	To be informed about substances that are important for immunity and secreted by immune cells responsible for immunity
4	To learn functions of tissues which are responsible for immunity
5	Learn the allergy and otoimmunity

Programme Outcomes (Physiology (Veterinary) Master)

1	Understands and defines the interdisciplinary interaction with the associated fields
2	Uses theoretical and practical information learned in the education
3	Creates solution proposals by using background education
4	Combines and interprets the information from different disciplines, and creates solution proposals and scientific information to contribute the solution process, when needed
5	Involves in professional organizations and institutions related with the educational background
6	Takes responsibility for individual and group work, and do the assignments in line with the skills
7	Communicates with the professionals out of the field when it is necessary, and contributes to the solution as a team member
8	Understands the production and publishing methods of scientific information
9	Determines the source and the type of information that is needed related with the field and chooses the activities that s/he wants to participate, by using his/her critical thinking abilities that is developed in the education
10	Excels technological devices both for professional and social purposes
11	Compiles any kind of data related with the field (field observations, produced scientific information etc.) and analyzes and interprets the results according to the aims of the research
12	Determines the environmental health rules and applies them for prevention
13	Applies the knowledge gained in professional level with the awareness of the needs of the region and the country, and develops a defense capability
14	Conceptualizes the phenomena and the events related with the field, studies scientific methods and techniques, interprets results; analyzes and hypothesizes methods in accordance with the results and designs solution or treatment alternatives addressing the problems
15	Follows up the updates of information in the field by using all kinds of sources (scientific information, legislations etc.), and uses when needed

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	2	2	2	2	2
P2	3	3	3	3	3
P3	3	3	3	3	3
P4	2	2	2	2	2
P5	1	1	1	1	1
P6	1	1	1	1	1
P7	1	1	1	1	1
P8	2	2	2	2	2
P9	2	2	2	2	2
P10	1	1	1	1	1
P11	4	4	4	4	4
P12	1	1	1	1	1
P13	2	2	2	2	2
P14	2	2	2	2	2
P15	3	3	3	3	2

