

# HIPERSENSITIVITY, IMMUN DEFICIENCY AND AUTOIMMUNE DISEASES

1	Course Title:	HIPERSENSITIVITY, IMMUN DEFICIENCY AND AUTOIMMUNE DISEASES	
2	Course Code:	VMK6018	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	5.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:		
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. SERPİL KAHYA DEMİRBİLEK	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	U.Ü. Veteriner Fakültesi Hayvan Hastanesi, Mikrobiyoloji Anabilim Dalı, Görükle Kampüsü 16059 Bursa serpilkahya@uludag.edu.tr (+90 224) 294 08 54	
17	Website:		
18	Objective of the Course:	Definition of hypersensitivity, immunodeficiency and autoimmune diseases in animals	
19	Contribution of the Course to Professional Development:	Since many autoimmune diseases are important, especially in small animal medicine, the course should be taken by these physicians.	
20	Learning Outcomes:		
		1	Ability to explain the mechanism of hypersensitivity.
		2	Ability to be able to define and to compare the types of hypersensitivity
		3	To define molecules and cells attend to hypersensitivity, and to comment allergies again to food, drug, vaccine and parasite.
		4	Being able to define the relationship blood transfusion and hypersensitivity in animals's
		5	To be able to interpret the basic mechanism of type III hypersensitivity important in veterinary medicine
		6	Ability to define to comment diagnostic reactions based on type IV hypersensitivity
		7	To be able to define immunodeficiency mechanisms and to explain the role and importance in veterinary medicine
		8	To be able to define autoimmunity mechanisms and to explain the role and importance in veterinary medicine
		9	
		10	
21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	

1	Reactions of type I hypersensitivity and cells and molecules in this reactions	
2	Specific allergic reactions related to type I hypersensitivity	
3	Type II hypersensitivity and erythrocyte antigens	
4	Blood groups, blood transfusions and their relationship with type II hypersensitivity	
5	Type III hypersensitivity and immune complexes	
6	Local and generalize type III hypersensitivity reactions	
7	Type IV hypersensitivity and delayed hypersensitivity	
8	Primary immunodeficiencies	
9	Secondary immunological defects	
10	Autoimmunity-general principles	
11	Normal and abnormal immune response	
12	Mechanisms of tissue damage in autoimmunity	
13	Organ-specific autoimmune diseases	
14	The systemic immunological diseases	

22	Textbooks, References and/or Other	Tizard, I.R.; Veterinary Immunology An Introduction, Sixth Edition, W.B. Saunders Company, Philadelphia, 2000
----	------------------------------------	---------------------------------------------------------------------------------------------------------------

Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		14	2.00	28.00
Practicals/Labs		0	0.00	0.00
Self study and preparation		10	6.00	60.00
Homeworks		6	5.00	30.00
23 Projects	Assesment	0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm exams		0	0.00	0.00
Others		2	11.00	22.00
Final Exams		1	10.00	10.00
Home work-project		3	30.00	10.00
Total Work Load				150.00
Total work load/ 30 hr		4	100.00	5.00
ECTS Credit of the Course				5.00
Success Grade				
Contribution of Final Exam to Success Grade		70.00		
Total		100.00		
Measurement and Evaluation Techniques Used in the Course		1 Final Exam		

24	<b>ECTS / WORK LOAD TABLE</b>															
----	-------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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	1	1	2	1	1	1	1	1	1	3	1	1	0	0	0	0

ÖK2	1	1	1	1	1	1	1	1	1	3	1	1	0	0	0	0
ÖK3	1	1	1	1	2	2	2	1	1	1	1	1	0	0	0	0
ÖK4	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ÖK5	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ÖK6	1	1	1	1	1	1	1	1	1	5	1	1	0	0	0	0
ÖK7	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ÖK8	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							