



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Cytokines							
Course Code		VPT536		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	3	Workload	79 (Hours)	Theory	1	Practice	0	Laboratory	0
Objectives of the Course		Role of the cytokines in the immunoregulations and inflammatory reactions pathogenesis of the cytokines in the immunoreactions							
Course Content		Role of the cytokines in the immunoregulations and inflammatory reactions pathogenesis of the cytokines in the immunoreactions.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)		Lec. Erkmen Tuğrul EPIKMEN							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Jones, T.C., Hunt, R.D., King, N.W., (1996) Veterinary Patology, Waverly Company, Philadelphia, USA.
2	Thomson, R.G., (1978) General Veterinary Patology, W.B.Saunders Company. Philadelphia, USA.

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition, history and general features of cytokines
	Preparation Work	Book
2	Theoretical	Classifications of cytokines
	Preparation Work	Book
3	Theoretical	Effect mechanism of cytokines
	Preparation Work	Book
4	Theoretical	Cytokines's role in the inflammatory physiopathology
	Preparation Work	Book
5	Theoretical	Cytokines receptor
	Preparation Work	Book
6	Theoretical	Signal ways of cytokines receptor
	Preparation Work	Book
7	Theoretical	Regulation of cytokines
	Preparation Work	Book
8	Preparation Work	Book
	Intermediate Exam	Mid term
9	Theoretical	Relation among disease, cytokine and tissue damage
	Preparation Work	Book
10	Theoretical	Cytokines obtain natural immunity
	Preparation Work	Book
11	Theoretical	Development of lymphocyte, cytokines which regulate activation and diffresyon
	Preparation Work	Book
12	Theoretical	Cytokines which activate inflammatorial cell
	Preparation Work	Book
13	Theoretical	Cytokines which activate hematopoiesis
	Preparation Work	Book
14	Theoretical	Demonstration
	Preparation Work	Book



15	Theoretical	Final Exam
	Preparation Work	Book

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Assignment	3	0	4	12
Seminar	1	12	1	13
Term Project	1	0	10	10
Midterm Examination	1	14	1	15
Final Examination	1	14	1	15
Total Workload (Hours)				79
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To be knowledgeable about the role of the cytokines
2	To be knowledgeable about the role of cytokines in the regulation of immune reactions
3	To be knowledgeable about the cytokine receptors and cellular signal transduction pathways
4	To be knowledgeable about the classification of cytokines
5	To be knowledgeable about the role of cytokines in disease

Programme Outcomes (Pathology (Veterinary Medicine) Master)

1	The student knows anatomy, structure/function of organs and tissues as well as physiological mechanisms of especially farm animals.
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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	3	3	5	5
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	5	4	3	5	5
P6	4	3	3	5	5
P7	4	5	5	5	5
P8	4	5	5	5	5
P9	4	5	5	5	5
P10	4	3	5	5	5

