



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Immunogens, Immunglobulins and Immun Response								
Course Code	MIK607		Course Level		Third Cycle (Doctorate Degree)				
ECTS Credit	6	Workload	147 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The objective of this course is to give information about immunogens, immunglobulins and immun response.								
Course Content	Features should be found in a valuable immunogen. Classifications of antigens according to their chemical structures, the type of host they belong to and production types. Classification of microbial antigens and properties of production of immune response. Structures of immunoglobulins and their synthesis mechanisms. Classifications of immunglobulins. Isotypes, allotypes and idiotypes. Functions of immunglobulins. Features for synthesis of antibodies in the cell.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Case Study								
Name of Lecturer(s)	Prof. Serap SAVAŞAN								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Assignment	4	20
Quiz	2	20
Midterm Examination	1	20
Final Examination	1	40

Recommended or Required Reading	
1	Immunoloji
2	Handbook of Vertebrate Immunology

Week	Weekly Detailed Course Contents & Teaching Methods	
1	Theoretical	Features should be found in a valuable immunogen
2	Theoretical	Classifications of antigens according to their chemical structures
3	Theoretical	Classifications of antigens according to their host they belong to and production types
4	Theoretical	Classifications of antigens according to their synthesis type
5	Theoretical	Classification of microbial antigens
6	Theoretical	Properties of production of immune response
7	Theoretical	Structures of immunoglobulins
8	Theoretical	Discussion
9	Theoretical	Synthesis mechanisms of immunoglobulins
10	Theoretical	Classification of immunoglobulins
11	Theoretical	Isotypes, allotypes and idiotypes
12	Theoretical	Functions of immunglobulins
13	Theoretical	Functions of immunglobulins
14	Theoretical	Features for synthesis of antibodies in the cell

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	4	0	13	52
Quiz	2	8	2	20
Midterm Examination	1	25	1	26
Final Examination	1	20	1	21
Total Workload (Hours)				147
[Total Workload (Hours) / 25*] = ECTS				6
*25 hour workload is accepted as 1 ECTS				



Learning Outcomes

1	1. Having information about immunogens, immunoglobulins and immun response
2	2. Having information about microbial antigens
3	3. Having information about properties of immunoglobulins
4	4. Having information about immunogenic activity
5	5. Providing ability to evaluate these informations

Programme Outcomes (Microbiology (Veterinary Medicine) Doctorate)

1	Department has the ability to identify and apply information about bacteriology, virology, mycology and has the ability to recognize diseases about veterinary medicine.
2	Department has the ability to take the advantage of technology and has the ability to diagnose, treat and prevent the diseases by using appropriate equipments.
3	Department has the ability to analyze the epidemiological compounds of an animal population and has the ability to get precautions.
4	Department has the ability to test or analyze the diseases and has the ability to evaluate the results.
5	Department has the ability to perform, produce and conclude projects for scientific researches.
6	Department has the ability to donate theoretical and practical knowledge about postgraduate students in the are of microbiology.
7	Graduate students has the ability to perform scientific researches.

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	4	5	4	4
P2	5	3	4	4	5
P3	5	5	5	4	4
P4	5	3	4	5	5
P5	4	5	4	5	3
P6	4	5	5	5	5
P7	4	5	5	5	4

