



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Vaccines, Serums and Their Use in Proflaxy							
Course Code		MIK631		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	5	Workload	125 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The objective of this course is to give information about vaccines and serums.							
Course Content		Classification of vaccines; attenuate vaccines, inactive vaccines, toxoid vaccines, synthetic peptide vaccines, subunit vaccines, biotechnologic (recombinant DNA) vaccines. Advantages and disadvantages of attenuate vaccines. Advantages and disadvantages of inactive vaccines. Mixed (polyvalan) vaccines. Techniques for preparation otogens and mixed vaccines and their application methods. Vaccine for papillomatosis and its immunity. The side effects of vaccines (local and systemic reactions, vaccine infections, contraindications, the use of insufficient immunity).							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study					
Name of Lecturer(s)									

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	Temel Mikrobiyoloji
3	Veterinary Immunology: An Introduction, 7 ^o Edition
4	Handbook of Vertebrate Immunology
5	Veterinary Vaccines and Diagnostics

Week	Weekly Detailed Course Contents & Teaching Methods	
1	Theoretical & Practice	Classification of vaccines
2	Theoretical & Practice	Classification of vaccines
3	Theoretical & Practice	Classification of vaccines
4	Theoretical & Practice	Advantages and disadvantages of live vaccines
5	Theoretical & Practice	Advantages and disadvantages of dead vaccines
6	Theoretical & Practice	Mixed (polyvalant/combined) vaccines
7	Theoretical & Practice	Techniques of autogenous vaccines
8	Theoretical & Practice	Discussion
9	Theoretical & Practice	Techniques of autogenous vaccines
10	Theoretical & Practice	Papillomatosis vaccines and its immunity
11	Theoretical & Practice	Complications of vaccines
12	Theoretical & Practice	Complications of vaccines
13	Theoretical & Practice	Complications of vaccines
14	Theoretical & Practice	Complications of vaccines

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	4	0	1	4
Reading	1	0	25	25
Quiz	2	2	1	6
Midterm Examination	1	2	1	3



Final Examination	1	30	1	31
			Total Workload (Hours)	125
			[Total Workload (Hours) / 25*] = ECTS	5
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	1. Having information about preparation of vaccines and serums
2	2. Having information about differences of live and dead vaccines
3	3. Having information about biotechnological vaccines
4	4. Having information about complications of vaccines
5	5. Providing ability to use 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	5	4	5	4	5
P2	4	4	4	4	4
P3	4	4	5	4	4
P4	4	4	4	4	5
P5	5	4	4	5	4
P6	4	4	5	4	5
P7	5	4	5	5	4

