



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	The Preparation of Vaccination Calendar in Dairy Cattle								
Course Code	MİK640		Course Level		Third Cycle (Doctorate Degree)				
ECTS Credit	5	Workload	121 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	The objective of this course is to give information about the preparation of vaccination calendar in dairy cattle.								
Course Content	Vaccine types. Adjuvants. Dose, timing of vaccine. Multivalent vaccines. Vaccines produced for dairy cattle. Vaccine calendars for dairy cattle.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study								
Name of Lecturer(s)	Prof. Şükrü KIRKAN								

Assessment Methods and Criteria

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

Recommended or Required Reading

1	İmmunoloji
2	Temel Mikrobiyoloji
3	Veterinary Immunology: An Introduction, 7 th Edition
4	Handbook of Vertebrate Immunology
5	Veterinary Vaccines and Diagnostics

Week Weekly Detailed Course Contents & Teaching Methods

Week	Weekly Detailed Course Contents & Teaching Methods	
1	Theoretical & Practice	Vaccine types
2	Theoretical & Practice	Vaccine types
3	Theoretical & Practice	Adjuvants
4	Theoretical & Practice	Adjuvants
5	Theoretical & Practice	Vaccine applications
6	Theoretical & Practice	Vaccine applications
7	Theoretical & Practice	Vaccine dose
8	Theoretical & Practice	Discussion
9	Theoretical & Practice	Vaccine application routes
10	Theoretical & Practice	Vaccine application routes
11	Theoretical & Practice	Vaccine timing
12	Theoretical & Practice	Multivalent vaccinations
13	Theoretical & Practice	Vaccines produced for dairy cattle
14	Theoretical & Practice	Vaccine calendars for dairy cattle

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	2	2	2	8
Reading	1	0	25	25
Quiz	2	4	2	12
Midterm Examination	1	6	2	8



Final Examination	1	10	2	12
Total Workload (Hours)				121
[Total Workload (Hours) / 25*] = ECTS				5
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	1. Having information about the preparation of vaccination calendar in dairy cattle
2	2. Vaccines produced for dairy cattle
3	3. To have knowledge about the application of commercial vaccines produced in dairy cattle
4	4. To have information about the adverse effects of commercial vaccines produced in dairy cattle
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	4
P2	4	5	5	5	5
P3	5	4	5	5	4
P4	4	5	3	5	5
P5	4	3	5	4	3
P6	5	5	4	5	5
P7	5	4	5	3	4

