

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Diagnosis and Identification Methods of Viruses							
Course Code	VVR504		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 5	Workload	126 (Hours)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course The aim of this course; to teach used tests and its methods for diagnosis and identification in serology and virology.								
Course Content Physically and chemically identification; neutralisation test Complement-fixation test, Agar test, immunofluorescent and im				lutination t unodiffusio	est, Hemaglution test, plque-re	nation-Inhib	ition test, ELISA,	
Work Placement	N/A							
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Experiment, Demonstration, Discussion, Individual Study					
Name of Lecturer(s)	Prof. Mehmet	Tolga TAN, F	rof. Nural ER	ROL				

Assessment Methods and Criteria						
Method	Quantity	Percentage (%)				
Midterm Examination	1	24				
Final Examination	1	60				
Quiz	1	8				
Term Assignment	1	8				

Recommended or Required Reading						
1	Playfair J.H.L. and Bancroft B.J. (2004) "Infection and Immunity", 2nd edition, Oxford University Press.					
2	MacLachlan N.J. and Dubovi E.J.(2012) "Fenners Veterinary Virology", 4th edition, Academic Press					
3	Jerome R.K. (2010) "Lennette's Laboratory Diagnosis of Viral Infections", 4th edition, informa					

Week	Weekly Detailed Course Contents						
1	Theoretical	Biosafety Managements					
2	Practice	Physically and chemically identification methods using in the virology.					
3	Theoretical	Serological methods using in virus identification					
4	Practice	Serological methods using in virus identification					
5	Theoretical	Neutralization Test					
6	Theoretical	Hemagglutination Test					
7	Theoretical	Hemagglutination-Inhibition Test					
8	Intermediate Exam	Mid-Term Exam					
9	Theoretical	Complement-Fixation Test					
11	Theoretical	Agar-Gel Immunodiffusion Test					
12	Theoretical	Plaque-Reduction Test					
13	Theoretical	Single radial Hemolysis Test					
14	Theoretical	Immunoperoxydase					
15	Final Exam	Final Term Exam					

Workload Calculation						
Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	14	0	1	14		
Lecture - Practice	14	0	2	28		
Assignment	1	8	0	8		
Individual Work	14	1	0	14		
Quiz	1	7	1	8		
Midterm Examination	1	22	2	24		



Final Examination	1		28	2	30	
	Total Workload (Hours)					
			[Total Workload (Hours) / 25*] = ECTS	5	
*25 hour workload is accepted as 1 ECTS						

Learning Outcomes

- 1 is informed about working in virology labors
- knows criteria in sampling for the purpose viral diagnosis; determination and selection of suitable materials, sending samples to the virology laboratories, preparation of inoculum from suspected material
- knows isolation or production, determination, quantification and identification of viruses and diagnostic methods for virus infection
- 4 is able to apply basic procedures for diagnostic methods in virology lab.
- 5 The student will have basic knowledge of laboratory and have knowledge about virology laboratory and biosafety

Programme Outcomes (Virology (Veterinary Medicine) Master)

- 1 To be understood the fundamentals of virology, the relations between animal and human in terms of viruses.
- To be taught to morphological and chemical structure, diversity, classification, cultivation of viruses and be able to infection of virus, be able to blocked abilities of virus replication.
- 3 To be informed about epidemiology of viral diseases and the control strategies against to viral diseases.
- 4 To be taught the cultivation, isolation, identification, quantification of viruses
- To be informed about etiology, epidemiology, pathogenesis, pathology and diagnosis of viral diseases important for animal health in Turkey.
- 6 To be taught vaccines and types of vaccines. The new developments of vaccines and applications of vaccines.
- 7 To be informed about advantages and disadvantages of applications of vaccine., and also complications of result of vaccination or post vaccination
- 8 Understand basic laboratory knowledge and virology laboratory applications.
- 9 Understand The Laboratory security and Good Laboratory Practice
- 10 To be taught the GLP in Virology.
- 11 Using the obtained scientific data in scientific publications such as reports, thesis, article books and writing criteria in ethical rules.

Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2:Low, 3:Medium, 4:High, 5: Very High

	L1	L2	L3	L4	L5
P4		5	5	5	
P8	5		3	4	5
P9				4	5
P10				4	3

