

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	In Vivo and in	Vitro Systems	s Using in the	Virologica	al Studies			
Course Code	VVR502		Couse Leve	l	Second Cycle	e (Master's [Degree)	
ECTS Credit 5	Workload	127 (Hours)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course							ystems (animal ce or these systems.	ll culture,
Course Content	developed for	cultivating vir specially cultiv	uses. Phages vated plants v	s are supp while anim	lied with bacte al viruses may	rial cultures, be supplied	ge procedures has , plant viruses may d with whole organi	be
Work Placement	N/A							
Planned Learning Activities	and Teaching	Methods	Explanation Individual St		tion), Experime	ent, Demons	stration, Discussion	n,
Name of Lecturer(s)	Prof. Nural ER	ROL						

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

- 1 "Virology-I" Burgu I., Akca Y., Ankara University Press, Ankara, 2006
- 2 "General Virology" Ozturk F., Selcuk University Press, 2003

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Biosafety Managements
2	Practice	In vivo and in vitro systems for cultivation of viruses
3	Theoretical	Eggs containing chick embryos
4	Practice	Eggs containing chick embryos
5	Theoretical	Cell and tissue culture
6	Practice	Cell and tissue culture
7	Theoretical	Cultivation and purification of viruses
8	Intermediate Exam	Mid-Term Exam
9	Theoretical	Laboratory animals
10	Practice	Inoculation methods in the laboratory animals
11	Theoretical	Inoculation methods for eggs containing chick embryos.
12	Practice	Inoculation methods for eggs containing chick embryos.
13	Theoretical	Inoculation methods for cell and tissue culture
	Practice	Inoculation methods for cell and tissue culture
15	Final Exam	Final Term Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Assignment	3	3	0	9
Individual Work	14	1	0	14
Quiz	2	3	1	8
Midterm Examination	1	22	2	24



Final Examination	1		28	2	30
			To	tal Workload (Hours)	127
		[T	Total Workload (I	Hours) / 25*] = ECTS	5
*25 hour workload is accepted as 1 ECTS					

Lear	ning Outcomes	
1	In vivo and in vitro systems for cultivation of viruses.	
2	Eggs containing chick embryos.	
3	Cell and tissue culture.	
4	Cultivation of viruses.	
5	Inoculation methods in the laboratory animals.	
6	Inoculation methods for eggs containing chick embryos	s
7	Inoculation methods for cell culture.	

Progr	amme Outcomes (Virology (Veterinary Medicine) Master)
1	To be understood the fundamentals of virology, the relations between animal and human in terms of viruses.
2	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
5	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.
11	

Contri	bution	of Lea	rning (Dutcon	nes to l	Progra	mme O
	L1	L2	L3	L4	L5	L6	L7
P4	5	5	5	5	5	5	5

