	REPLI	CATIC	ON OF VIRUSES								
1	Course Title:	REPLIC	ATION OF VIRUSES								
2	Course Code:	VVR600	3								
3	Type of Course:	Optional									
4	Level of Course:	Third Cy	cle								
5	Year of Study:	1									
6	Semester:	1									
7	ECTS Credits Allocated:	4.00									
8	Theoretical (hour/week):	2.00									
9	Practice (hour/week):	2.00									
10	Laboratory (hour/week):	0									
11	Prerequisites:	None									
12	Language:	Turkish									
13	Mode of Delivery:	Face to	face								
14	Course Coordinator:	Prof. Dr.	KADİR YEŞİLBAĞ								
15	Course Lecturers:	Prof. Dr.	Kadir Yeşilbağ								
16	Contact information of the Course Coordinator:	kyesilbag@uludag.edu.tr (+90 224) 294 12 95 U.Ü. Veteriner Fakültesi, Viroloji Anabilim Dalı, Görükle Kampüsü 16059 Bursa									
17	Website:										
18	Objective of the Course:	Understanding the basic replication strategies of viruses and the differences between virus families, understanding the systems that can be used in the reproduction of viruses									
19	Contribution of the Course to Professional Development:	Understanding the differences between the reproduction strategies of virus families and to have a command of the subject in determining the methods of struggle and the selection of diagnostic methods.									
20	Learning Outcomes:										
		1									
		2	Understanding the basic replication strategies of viruses  Learning the differences between virus families replication strategies								
		3	Learning the systems that can be used to reproduce viruses								
		4	Learning the factors that play a role in stopping the reproduction of viruses								
		5									
		6									
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		9									
		10									
21	Course Content:										
		Co	ourse Content:								
Week	Theoretical		Practice								
1	Replication cycles of viruses  Preparation of cell culture for virus cultivation and evaluation of cell lines that can be used										

2	Factors affecting adsorption and contract attachment, receptor co-receptor relationships	ell		Application of adsorption and non-adsorption cultivation techniques in cell cultures							
3	Penetration and its types		V	Virus production by using chemical agents that will contribute to reproduction in cell cultures							
4	Methods of separating from the collayers	vering		Observing the effects of different adsorption times on virus replication							
5	Intracellular transport of viruses an of viral genome to the nucleus	d transfer	C	Observing conditions that prevent virus growth in cell culture							
6	Different synthesis stages between stage and virus families	Eclipse	С	Observation of replicating viruses in cell culture							
7	Mature virus particle formation, proformation and self-assemby	capsid	Ir	Infective virus particle detection							
8	Extracellular scattering strategies		E	xtracellular infective	virus particle detec	ction					
9	Baltimore virus classification accor nucleic acid replication strategies	ding to	D	etection of intracellu	ılar viral particles						
10	Post-transcriptional processing			Practice of separation of DNA and RNA viruses with products that can be used in viral protein synthesis							
11	Viral protein synthesis		С	collection of replicate	ed viruses						
12	Post-translational processes			tandardization of ar ulture, toxicity test	ntiviral agents before	e their use in cell					
Activit	tes			Number	Duration (hou	Total Work Load (hour)					
Theore	eticai			14	2.00	28.00					
Practic	als/Labs			14	2.00	28.00					
Selfasti	dy and preperation			14	2.00	28.00					
Homev				0	0.00	0.00					
Project	ts	R		7	5.00	35.00					
Field S	tudies	- 1 -		0	0.00	0.00					
Midterr	n exams	0	0	Bo	0.00	0.00					
Others				0	0.00	0.00					
FIRALE	Xams	1	1	op.oo	1.00	1.00					
Total V	Vork Load					120.00					
Contrib	Outlon of Term (Year) Learning Actives Grade	ities to	0	.00		4.00					
ECTS	Credit of the Course			00.00		4.00					
Total	Valieti et i mai Exam te Gaecce ete		_	00.00							
	rement and Evaluation Techniques	Used in th	ne T			ne form of test,					
24	ECTS / WORK LOAD TABL	E									
25	CONTRIBUTION			NING OUTCOM ALIFICATIONS	ES TO PROGRA	AMME					
	PQ1 PQ2 PQ3 PQ4 PQ5 P	06 807	ВО	9 BO0 BO1 BO1	1 BO12 BO1 BO	44 BO45 BO46					

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	3	5	5	4	4	3	4	5	3	3	5	0	0	0	0
ÖK2	5	3	5	5	4	4	3	4	5	3	3	5	0	0	0	0

ÖK3	5	3	5	5	4	4	3	4	5	3	3	5	0	0	0	0
ÖK4 5 3 5 5 4 4 3 4 5 4 4 0 0 0 0 0  LO: Learning Objectives PQ: Program Qualifications											0					
Contrib 1 very low 2 low ution Level:						3 Medium 4 High						5 Very High				