

PLANT VIROLOGY

1	Course Title:	PLANT VIROLOGY
2	Course Code:	BTK3609-Z
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	5
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	-
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. ÜMİT ARSLAN
15	Course Lecturers:	-
16	Contact information of the Course Coordinator:	Prof. Dr. Ümit ARSLAN uarslan@uludag.edu.tr
17	Website:	
18	Objective of the Course:	The students will be; obtain general information about plant viruses and explain the characteristics of plant viruses, identification and control methods in the plants.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	To explain the historical developments of plant virology
	2	To obtain general information about plant viruses
	3	To define the differences between plant viruses and other plant pathogens
	4	To know taxonomy of plant pathogenic viruses
	5	To explain the ways of spreading for plant pathogenic viruses
	6	To apply diagnostic methods for some of the important plant pathogen for viruses
	7	To grasp the biology of viruses and their ecology
	8	To explain the control methods of plant pathogenic viruses
	9	
	10	
21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Introduction to plant virology	
2	Characteristics of plant viruses	
3	Virus infection and virus synthesis	
4	Translocation and distribution of viruses in plants	

5	Symptoms caused by plant viruses	
6	Nomenclature and classification of plant viruses	
7	Purification of plant viruses	
8	Serology of plant viruses	
9	Detection and identification of plant viruses	
10	Repeating courses and midterm exam	
11	Transmission of plant viruses	
12	Transmission of plant viruses	
13	Control of plant viruses	
14	Ecology and epidemiology of plant viruses	

22	Textbooks, References and/or Other Materials:	Agrios, G.N. 2005. Plant Pathology. Fifth Edition, 922 s. Baykal, N. 1992. Fitopatoloji. Uludağ Üniversitesi Basımevi. 368 s. Dolar, F.S., Demirci, E., Basım, H., Demirci, F., Elibüyük, İ.Ö. 2011. Fitopatoloji. T.C. Anadolu Üniversitesi yayın No: 2293, Anadolu Üniversitesi Web-Ofset. Eskişehir, 199 s. Hull, R. 2002. Matthews' Plant Virology. Fourth Edition. Academic Press, London, 1001 p. Yılmaz; M. A., Çığışar, İ. 2007. Viroloji. Çukurova
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Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Midterm Exam	1	40.00	
Practicals/Labs	0	0.00	0.00
Self study and preperation	0	0.00	0.00
Home work, project	0	0.00	
Homeworks	1	12.00	12.00
Projects	0	0.00	0.00
Total	16	100.00	
Field Studies	0	0.00	0.00
Contribution of Term (Year) Learning Activities to Success Grade	1	20.00	20.00
Others	0	0.00	0.00
Final Exams	1	30.00	30.00
Total	17	100.00	
Total Work Load			110.00
Measurement and Evaluation Techniques Used in the Course			3.00
ECTS Credit of the Course			3.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	0	0	0	2	3	2	0	0	0	0	0	0
ÖK2	4	3	3	0	0	0	0	3	3	0	0	0	0	0	0	0
ÖK3	3	3	3	0	0	0	0	3	3	3	0	0	0	0	0	0
ÖK4	3	3	0	0	0	0	0	3	3	2	0	0	0	0	0	0

ÖK5	3	4	3	0	0	0	0	3	3	3	0	0	0	0	0	0
ÖK6	3	3	0	0	0	0	0	3	4	2	0	0	0	0	0	0
ÖK7	3	4	0	0	0	0	0	3	3	2	0	0	0	0	0	0
ÖK8	3	3	4	0	0	0	0	3	3	2	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			