EPIDEMIOLOGY OF PLANT DISEASES

1	Course Title:	EPIDEMIOLOGY OF PLANT DISEASES
2	Course Code:	BTK3612-S
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	6
7	ECTS Credits Allocated:	4.00
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:	Doç.Dr. HİMMET TEZCAN
15	Course Lecturers:	-
16	Contact information of the Course Coordinator:	himmett@uludag.edu.tr 0224.2941573 Bursa Uludağ Üniversitesi, Ziraat Fakültesi, Bitki Koruma Bölümü, 16059 Görükle, Bursa
17	Website:	
18	Objective of the Course:	The objective of this course is to explain the disease occurrence in plants, and to explain the factors that caused it under what circumstances epidemics may occur.
19	Contribution of the Course to Professional Development:	After the course, the students will be learned the disease occurrence in plants, and to explain the factors that caused it under what circumstances epidemics may occur.
20	Learning Outcomes:	
	1	To have knowledge of the historical development of Plant Diseases' Epidemiology
	2	To further interpret the causes of the epidemic;
	3	To explain the causes of epidemics due to host plant
	4	To explain the causes of epidemics due to pathogen
	5	To explain the causes of epidemics due to environmental conditions
	6	To determine methods for control ling epidemics
	7	To learn the use of chemical and biological control in regulating epidemics
	8	To gain the ability to benefit from forecasting and early warning models
	9	
	10	
21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Introduction to plant disease epidemiology	
2	Host factors that affect development of epidemics	

3	Pathogens factors that affect development of epidemics	
4	Environmental factors that affect development of epidemics	
5	Effect of human cultural practices and control measures	
6	Measurement of plant disease	
7	The Structure of epidemics	
8	Development of epidemics	
9	Modeling of plant disease epidemics	
10	Repeating courses and midterm exam	
11	Forecasting plant disease epidemics	
12	Forecasts based on weather conditions favoring development of secondary inoculum	
13	Forecasts based on amounts of initial and secondary inoculum	
14	Farmer-warning systems	

22	Textbooks, References and/or Other Materials:	Zadoks, J.C. and R.D. Schein, 1979. Epidemiology and Plant Disease Management. Oxford University Press.Inc. 427. Agrios, G. N. 1997. Plant Pathology. Academic Press Lim.California.USA. 635 p. Erdiller, G., 1992. Bitki Hastalıkları Epidemiyolojisi. Ankara Üniversitesi, Ziraat Fakültesi

Activites		Number	Duration (hour)	Total Work Load (hour)
23	Theoretical Assesment	14	2.00	28.00
	Practicals/Labs	0	0.00	0.00
	Self study and preperation	0	0.00	0.00
	Homeworks	1	12.00	12.00
	Projects	0	0.00	0.00
	Field Studies	0	0.00	0.00
	Midterm exams	1	30.00	30.00
	Others	0	0.00	0.00
	Final Exams	1	50.00	50.00
	Total Work Load			120.00
	Total work load/ 30 hr			4.00
	ECTS Credit of the Course			4.00
	Measurement and Evaluation Techniques Used in the Course	Multiple Choice Test Exam		

24	**ECTS / WORK LOAD TABLE**

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	3	5	5	0	0	0	0	0	4	4	4	3	0	0	0	0
ÖK2	4	5	5	0	0	0	0	0	3	4	5	5	0	0	0	0
ÖK3	3	4	4	0	0	0	0	0	3	5	4	4	0	0	0	0

ÖK4	3	5	4	0	0	0	0	0	3	5	5	3	0	0	0	0
ÖK5	3	5	4	0	0	0	0	0	3	4	5	4	0	0	0	0
ÖK6	4	5	4	0	0	0	0	0	3	4	3	5	0	0	0	0
ÖK7	5	5	4	0	0	0	0	0	5	5	3	5	0	0	0	0
ÖK8	5	4	4	0	0	0	0	0	4	4	4	5	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**