AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Agricultural Meteorology								
Course Code	BKR109		Couse Level		Short Cycle (Associate's Degree)				
ECTS Credit	3	Workload	75 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Objectives of the course are giving students; -the ability to define air, climate, climate components, climate factors, -information about the meteorological events to improve the quality and quantity of crop and animal production, - information about meteorological events which has negative effect on agricultural production and the preventive measures.								
Course Content	Importance and purpose of Agricultural Meteorology, structure of atmoshpere, atmospheric pollution and effects on cultivated plants, weather, climate and climate components, effects of climate components on crop and animal production, meteorological events which has negative effect on agricultural production, global climate changes and its effects on agriculture and water resources.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	Course notes of Lecturer
2	Presentations and Lecture Notes Compiled From Different Sources
3	Oğuzer, V. 1995. Meteoroloji. Çukurova Üni. , Ziraat Fakültesi Yayınları
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Week	Weekly Detailed Course Contents	
1	Theoretical	Importance and purpose of Agricultural Meteorology
2	Theoretical	Information about atmosphere, Meteorology observation stations
3	Theoretical	Solar radiation
4	Theoretical	Measuring air and soil temperature, ways of expression
5	Theoretical	Measuring humidity and ways of expression
6	Theoretical	Rainfall types and measuring rainfall, factors effecting rainfall
7	Theoretical	Air pressure and measurement
8	Intermediate Exam	Midterm exam
9	Theoretical	Wind, measuring wind, wind protection facilities
10	Theoretical	Evaporation, measuring evaporation
11	Theoretical	Climate changes, effect on agriculture and water sources
12	Theoretical	Frost, classification of frost, preventive measures
13	Theoretical	Meteorological events which has negative effect on agricultural production
14	Theoretical	Drought, drought indexes, struggle with drought
15	Theoretical	Global climate changes, effects on agriculture and water resources

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	3	5	0	15
Individual Work	1	12	0	12
Midterm Examination	1	9	1	10

Final Examination	1	9	1	10
			Total Workload (Hours)	75
			[Total Workload (Hours) / 25*] = **ECTS**	3
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Be able to recognize weather and elements of climate
2	Be able to understand the effects of atmospheric enviroments on agricultural production as quality and quantity
3	Be able to determine measuring techniques and ways of expressions of climate components
4	To interpret the measurement results
5	Meteorological events that adversely affect agricultural production and then to be able to determine measures that can be taken to choose.

Programme Outcomes *(Plant Protection)*	
1	To be able to learn about systematics, morphological, biological, ecological and epidemiological information about diseases, pests and weeds that cause the loss of the crop at every stage of production,
2	To be able to become familiar with agricultural management control methods and their use in control of plant diseases, pests and weeds in cultivated agricultural crops,
3	To be able to diagnose and identify plant diseases, insect, mite or nematode pests or weeds that cause economical losses in stored crops and products,
4	To be able to use pesticides safely and effectively and informed about their hazardous non-target effects on the environment and human health.
5	To be able to learn plant protection products and their practice in organic agriculture,
6	To be able to evaluate the information obtained throughout the learning process with cause-effect relations, to be able to collect data and transfer the results to practice, and to predict where, when and why to use the information
7	To be able to comply with professional, cultural, social ethic rules in his / her field and to be entrepreneurial
8	To be able to have conscious of the universality of social rights, social justice, quality and cultural values, environment protection, occupational health and safety issues
9	To be able to use information and communication technologies together with the required computer software of his / her field
10	To be able to have the necessary background and qualifications to work in public and private agriculture sectors, to be able to conduct a study independently / as a team member and to be able to comply with the relevant legislation

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

	L1	L2	L3	L4	L5
P1	2	4	4	2	3
P2	2	3	3	2	3
P3	2	3	3	3	3
P4	2	3	3	3	2
P5	2	2	3	2	2
P6	4	3	3	2	2
P9			2		
P10	3	3	3	1	2