

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Measurement and Evaluation of Meteorological Data							
Course Code	ZTY517 Couse Level Second Cycle (Master's Degree)		Degree)				
ECTS Credit 8	Workload 200 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course The aim of this course is to teach the measurement of meteorological data and the assessment of measurement results.						of	
Course Content					ciples of measure surement data.	ment	
Work Placement N/A							
Planned Learning Activities	Explanation	(Presenta	tion), Case Stu	ıdy, Individu	al Study		
Name of Lecturer(s)							

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

Recommended or Required Reading

- Özgürel M., Pamuk Mengü G. (2009) Agricultural Meteorology (Tarımsal Meteoroloji), Ege Üniversitesi Yayınları, Ziraat Fakültesi Yayın No: 567, İzmir.
- 2 Aküzüm ve ark. (1994)Meteorology I (Meteoroloji I), Ankara Üniversitesi Ziraat Fakültesi Yayınları Yayın No:1325, Ankara

Week	Weekly Detailed Cour	rse Contents					
1	Theoretical	Observation and measurement concepts, measurement principles of meteorological data					
2	Theoretical	Principles of temperature measurement; apparatus used to measure air and soil temperature, their principles; calculations of averages					
3	Theoretical	Principles of sunshine duration and solar radiation measurement, characteristics and usage of apparatus to measure, calculation of daily data					
4	Theoretical	Principles of air humidity measurement, characteristics and usage of apparatus to measure, calculation of daily average					
5	Theoretical	Principles of precipitation measurement, calculation of rainfall amount, rainfall intensity and shower rainfall; relationship between elevation and precipitation					
6	Theoretical	Appartus used to measure precipitation and calculation of daily rainfall amount					
7	Theoretical	The basic principle of air pressure and wind measurements, speed, direction and frequency necessary for determining the identification of issues and the daily value					
8	Intermediate Exam	Mid Term Exam					
9	Theoretical	Factors affecting evaporation; measurement of evaporation					
10	Theoretical	Measurement of evaporation from open water bodies and earth surface; apparatus used to measure evaporation					
11	Theoretical	The run of day concept and the methods used to calculate					
12	Theoretical	Calculation of monthly, annual and long-term data					
13	Theoretical	Methods used to estimate missing data (correlation, double-mass etc.)					
14	Theoretical	Interpolation and interpolation methods					
15	Theoretical	Isotherm and isobar maps					
16	Final Exam	Final Exam					

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	5	2	98
Lecture - Practice	14	4	2	84
Midterm Examination	1	6	2	8



Final Examination	1		8	2	10		
Total Workload (Hours)					200		
[Total Workload (Hours) / 25*] = ECTS							
*25 hour workload is accepted as 1 ECTS							

Learning Outcomes						
1	Being familiar with measurement apparatus					
2	Being able to assess the measurement results					
3	Being able to interpret the measurement results					
4	Being able to fill the missing data					
5	Being able to make homogeneity analysis					

Prog	ramme Outcomes (Agricultural Structures and Irrigation Master)
1	Ability to use, evaluate and improve the knowledge gained from field of study at an expert level
2	Ability to reach necessary the knowledge
3	To able to conduct scientific studies (research) related to the field
4	Ability to consider academical and ethical values the studies
5	Ability to improve editing method and evaluate the results of researches
6	The studies, the ability to reach result and application, develop new approaches
7	A topic in the field of written, verbally and visually as the ability to express
8	Effective use of Turkish language and ability to communicate in a foreign language both written and verbal

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	5	5	5	5	4
P2	4	4	4	4	3
P3	5	3	3	5	3
P4	5	3	3	4	2
P5	3	5	4	4	4
P6	4	5	5	5	3
P7	5	4	5	3	1
P8	3	3	3	3	1

