



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Climatology and Air Pollution							
Course Code		ÇS205		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	100 ( <i>Hours</i> )	Theory	4	Practice	0	Laboratory	0
Objectives of the Course		Introduction to Meteorology Science, and relation with other sciences. Also introduction to the Meteorological Parameters, Measurements and Meteorological Applications.							
Course Content		Air pollution and air polluters(conventional polluters, specific polluters), the effects of air pollution on environment and human, the reasons of air pollution(industrial air pollution, important values of that is specific air pollution, ozone layer deformation, green gas effect, acid rains), meteorology and human gas pollution, topographic effects on it.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Case Study					
Name of Lecturer(s)		Ins. Hayriye Nurcan SÖBÜTAY							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

### Recommended or Required Reading

1	Meteoroloji Ders Kitabı (Devlet Hava Meydanları İşletmesi)
2	Klimatolojik Rasat El Kitabı (Mehmet Eken, Yusuf Ulupınar, Mesut Demircan, Yüksel Nadaroğlu, Bahattin Aydın, Ümit Özhan)

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition of Meteorology , historical and Meteorology General information about the General Directorate of Meteorology
	Preparation Work	Projection apparatus, slate, supplementary books
2	Theoretical	Branches of meteorology and meteorology sectors served by
	Preparation Work	Projection apparatus, slate, supplementary books
3	Theoretical	The atmosphere and the layers of the atmosphere
	Preparation Work	Projection apparatus, slate, supplementary books
4	Theoretical	Meteorological parameters and the air mass
	Preparation Work	Projection apparatus, slate, supplementary books
5	Theoretical	The air masses which is affecting to Turkey.
	Preparation Work	Projection apparatus, slate, supporter books
6	Theoretical	Precipitation, Formation and precipitation types.
	Preparation Work	Projection apparatus, slate, supporter books
7	Theoretical	Clouds, Cloud Types, Inversion and Fog
	Preparation Work	Projection apparatus, slate, supporter books
8	Intermediate Exam	Midterm
9	Theoretical	Meteorological Maps and Fronts
	Preparation Work	Projection apparatus, slate, supporter books
10	Theoretical	How to Weather Forecast
	Preparation Work	Projection apparatus, slate, supplementary books
11	Theoretical	Climate in Turkey
	Preparation Work	Projection apparatus, slate, supplementary books
12	Theoretical	Wind and Wind Types
	Preparation Work	Projection apparatus, slate, supplementary books
13	Theoretical	Scenarios for Global Climate Change and Turkey
	Preparation Work	Projection apparatus, slate, supplementary books
14	Theoretical	Environmental Impact Assessments (EIA)
	Preparation Work	Projection apparatus, slate, supplementary books



15	Theoretical	General assessment of the lesson.
	Preparation Work	Projection apparatus, slate, supplementary books

**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	4	56
Assignment	14	1	1	28
Midterm Examination	1	5	1	6
Final Examination	1	9	1	10
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4

\*25 hour workload is accepted as 1 ECTS

**Learning Outcomes**

1	1. Knowing the description of the meteorology, and it's history and branches.
2	2. Having knowledge about meteorological parameters and air masses.
3	3. Identifying the types of precipitation and the precipitation formation,
4	4 Explain how the weather forecast is done.
5	5. Being aware of global climate change and scenarios about this issue for Turkey.

**Programme Outcomes (Environmental Health)**

1	They have the appropriate level of knowledge about the basic sciences which has an interaction with the environment and the environment itself.
2	They have gained the basic concepts, skills and qualifications in the Environmental health theoretical and practical lessons. And then they can establish the connections that are necessary to protect the environment and people's health in the light of these competencies.
3	They can use the approaches and the information of basic and applied research in different disciplines. They can follow the innovations and developments in their field, and have self-development competency with the terms of the day.
4	They know and apply the analysis methods used in the evaluation of environmental factors (drinking water, waste water treatment, air pollution, meteorological data, land values, food control, radiation measurement, etc.).
5	They have a professional and ethical consciousness, and have the ability to recognize the environmental problems and also can formulate a solution to these problems. They apply the gained knowledges and skills faced in real life situations, transfers the knowledge to individuals around, and wins the life-long learning behavior.
6	They are able to use their professional knowledge in their lives and behave sensitively toward the local and global environmental problems and effectively uses to the legislation and management tools the necessary for the solution.
7	Gained the ability to adapt the changing in a positive way themselves, to understand the core values and cultures of the society which are living. Sensitive to the universal and the social values, interests of the country, have adopted the concept of sustainable development, environmentally conscious, productive, behaves aware of the ethical and professional responsibility.
8	Provides a healthy interact of individual, society and the environment and take responsibility in the necessary situations for the continuity.
9	They gain the ecologically-based solving skills the problems and the delays that may arise in interaction with each other of living and nonliving environment. Interests of local and national, and Ecological and historical values of our country, and contribute to the protection and the development of them.
10	Exhibits the appropriate behaviours for the protection and the development of plants, animals, and inanimate environment, and the especially human health.
11	Knows the value of energy for life, recognizes the types of energy, and have conscious of the importance, using and dissemination of renewable energy sources.
12	Knows the properties of information and communication technologies, and uses them in the process efficiently and professionally.
13	They aware of the democracy, rule of law, human rights, the national and universal cultural characteristics, and sensitive towards to the nature, society and people.
14	Knows the importance of Ataturk's principles and reforms, make them a way of life.
15	Uses effectively the Turkish in speaking and writing.
16	Has at least one foreign language ability to be able to follow the knowledge in their profession and to communicate with colleagues.
17	To have the appropriate knowledge of medical sciences at the level of interest, to use specific medical terms and terminology of field

**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	5
P2	5	5	5	5	5
P3	4	4	4	4	4
P4	5	5	5	5	5
P5	4	4	4	4	4
P8	5	5	5	5	5
P10	4	4	4	4	4
P12	4	4	4	4	4

