

| Course Code | Course Name | Teorical | Practice | Laboratory | Credits | ECTS |
|---|---|----------|----------|------------|---------|------|
| FZK-4044 | Introduction to Enviromental and Atmospheric Pollution | 3.00 | 0.00 | 0.00 | 3.00 | 6.00 |
| Course Detail | | | | | | |
| Course Language | : Turkish | | | | | |
| Qualification Degree | : Bachelor | | | | | |
| Course Type | : Optional | | | | | |
| Preconditions | : Not | | | | | |
| Objectives of the Course | : What is environmental pollution and how can it be prevented? What are the effects of this pollution? In addition, information is given about the pollution in the atmosphere. | | | | | |
| Course Contents | : An overview and solution suggestions for environmental and atmospheric pollution from the physics perspective. | | | | | |
| Recommended or Required Reading | : Principles of Environmental Physics (Plants, Animals, an the Atmosphere), 2014, Autors John L. Monteith and H. Unsworth Atmosphere Physics, 2004, Zafer Aslan | | | | | |
| Planned Learning Activities and Teaching Methods | : Lecture, Homework, Application | | | | | |
| Recommended Optional Programme Components | : Current research topics for student. | | | | | |
| Instructors | : Prof. Dr. Caner Çiçek | | | | | |
| Instructor's Assistants | : No | | | | | |
| Presentation Of Course | : Face to Face | | | | | |

Course Outcomes

Upon the completion of this course a student :

- 1 Recognize the concept of environment and the Earth's atmosphere. Learns the sources of environmental pollution. Knows atmospheric pollutants.
- 2 Learns Noise Physics. Learns what is noise. Knows noise sources and pollution.
- 3 Defines soil pollution. Recognizes nuclear pollution. Learns the effect of nuclear waste
- 4 Learns and interprets the change in the atmosphere due to industrialization and global warming.

Preconditions

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Weekly Contents

| | Teorical | Practice | Laboratory | Preparation Info | Teaching Methods |
|---------|--|----------|------------|------------------|------------------|
| 1.Week | *Environment and atmosphere concept. | | | | |
| 2.Week | *The formation of the earth's atmosphere | | | | |
| 3.Week | *Old environment and new environment definition | | | | |
| 4.Week | *Examination of the layers of the Earth Atmosphere | | | | |
| 5.Week | *Environmental pollution definition and importance | | | | |
| 6.Week | *Sources of atmospheric pollution | | | | |
| 7.Week | *Ozone layer and its importance | | | | |
| 8.Week | *Midterm exam | | | | |
| 9.Week | *Noise physics definition | | | | |
| 10.Week | *Sources of noise and their prevention | | | | |
| 11.Week | *Industrialization and Soil Pollution | | | | |
| 12.Week | *Industrialization and Soil Pollution | | | | |
| 13.Week | *Environmental impact of nuclear power plants | | | | |
| 14.Week | *Extraordinary events and solutions in the atmosphere. | | | | |

Assesment Methods %

1 Md Term Exam 1 : 40.000

2 Final : 60.000

ECTS Workload

| Activities | Count | Time(Hour) | Sum of Workload |
|------------|-------|------------|-----------------|
| Vize | 1 | 3.00 | 3.00 |

