

#### Objectives of the Course

A large number of people are adversely affected by natural disasters of geological and meteorological origin that occur every year around the world. Within the scope of this course, it is aimed to raise awareness of students about different types of natural disasters. Since most of the natural disasters cannot be prevented, it is aimed to raise the awareness of the students in detail about the precautions that can be taken against these disasters. On the other hand, starting from the fact of disseminating disaster awareness in society, it is aimed to explain the mechanisms of occurrence of different types of disasters to students.

#### Course Contents

Internal and external dynamics in the earth's crust, plate tectonics, natural disasters such as earthquake, tsunami, mass movements, global warming, floods, tornadoes, lightning and hurricanes, avalanches, forest fires and erosion and the formation mechanisms of these disasters, their negative effects on humans, disaster prevention methods constitute the main content of this course.

#### Recommended or Required Reading

Reading materials related to the course topics will be distributed to students by the course instructor. Course presentations will also be provided to students. It is recommended that students read the following source: SÖZCÜ, U. (2021), Natural Disasters and Natural Disaster Literacy, Ankara: Pegem Akademi. (Recommended reading)

#### Planned Learning Activities and Teaching Methods

Lectures, case study analyses, short video presentations on natural disasters, and critical evaluations of news reports concerning natural disasters

#### Recommended Optional Programme Components

Active participation in the course and in-class discussions is emphasized.

#### Instructor's Assistants

There is no teaching assistant assigned to the course.

#### Presentation Of Course

The course is delivered in a face-to-face format.

#### Dersi Veren Öğretim Elemanları

Prof. Dr. Mutluhan Akın

#### Program Outcomes

1. Can explain the concept and types of natural disasters.
2. Knows the ways of protection from natural disasters.
3. Recognizes the natural disaster affecting the region in which they live.
4. Can explain the direct and indirect effects caused by natural disasters.

#### Weekly Contents

| Order | PreparationInfo                                                                                                                                                                                                                                                                                                                        | Laboratory | TeachingMethods                                      | Theoretical                                               | Practise |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------|-----------------------------------------------------------|----------|
| 1     | It is necessary to read the content available at the following link:<br><a href="https://www.afad.gov.tr/afadem/dogal-afetler">https://www.afad.gov.tr/afadem/dogal-afetler</a>                                                                                                                                                        |            | Lecture, in-class discussion, and video presentation | Definition and classification of natural disasters        |          |
| 2     | The text assigned by the course instructor in the previous lecture must be read.                                                                                                                                                                                                                                                       |            | Lecture, in-class discussion                         | The direct and indirect impacts of natural disasters      |          |
| 3     | The text assigned by the course instructor in the previous lecture must be read.                                                                                                                                                                                                                                                       |            | Lecture, in-class discussion, and video presentation | Natural disasters in Türkiye                              |          |
| 4     | The text assigned by the course instructor in the previous lecture must be read.                                                                                                                                                                                                                                                       |            | Lecture, in-class discussion, and video presentation | Interior and exterior dynamics of the earth               |          |
| 5     | students are expected to review the information provided at the following link and to watch the accompanying videos:<br><a href="https://education.nationalgeographic.org/resource/plate-tectonics/">https://education.nationalgeographic.org/resource/plate-tectonics/</a>                                                            |            | Lecture, in-class discussion, and video presentation | Concept of plate tectonics                                |          |
| 6     | The text assigned by the course instructor in the previous lecture must be read.                                                                                                                                                                                                                                                       |            | Lecture, in-class discussion, and video presentation | Eaertquakes and adverse effects of earthquakes            |          |
| 7     | The text assigned by the course instructor in the previous lecture must be read.                                                                                                                                                                                                                                                       |            | Lecture, in-class discussion                         | Examples of earthquakes from Türkiye and around the world |          |
| 8     | The topics covered up to the midterm exam should be studied.                                                                                                                                                                                                                                                                           |            |                                                      | Midterm exam                                              |          |
| 9     | The text assigned by the course instructor in the previous lecture must be read.<br>The information available at the following link should be read:<br><a href="https://www.jmo.org.tr/resimler/ekler/1ceb64673659a78_ek.pdf?dergi=MAV%20GEZEGEN">https://www.jmo.org.tr/resimler/ekler/1ceb64673659a78_ek.pdf?dergi=MAV%20GEZEGEN</a> |            | Lecture, in-class discussion, and video presentation | Tsunami                                                   |          |
| 10    | The text assigned by the course instructor in the previous lecture must be read.                                                                                                                                                                                                                                                       |            | Lecture, in-class discussion, and video presentation | Mass movements                                            |          |
| 11    | The text assigned by the course instructor in the previous lecture must be read.                                                                                                                                                                                                                                                       |            | Lecture, in-class discussion, and video presentation | Global warming                                            |          |
| 12    | The text assigned by the course instructor in the previous lecture must be read.                                                                                                                                                                                                                                                       |            | Lecture, in-class discussion, and video presentation | Floods                                                    |          |
| 13    | The text assigned by the course instructor in the previous lecture must be read.                                                                                                                                                                                                                                                       |            | Lecture, in-class discussion, and video presentation | Snow avalanche                                            |          |
| 14    | The text assigned by the course instructor in the previous lecture must be read.                                                                                                                                                                                                                                                       |            | Lecture, in-class discussion, and video presentation | Tornadoes, lightning and hurricanes                       |          |
| 15    | The text assigned by the course instructor in the previous lecture must be read.                                                                                                                                                                                                                                                       |            | Lecture, in-class discussion                         | Forest fires and erosion                                  |          |
| 16    | The topics covered between weeks 9 and 15 should be studied.                                                                                                                                                                                                                                                                           |            |                                                      | Final exam                                                |          |

#### Workload

| Activities                    | Number | PLEASE SELECT TWO DISTINCT LANGUAGES |
|-------------------------------|--------|--------------------------------------|
| Vize                          | 1      | 1,00                                 |
| Final                         | 1      | 1,00                                 |
| Derse Katılım                 | 14     | 2,00                                 |
| Ders Öncesi Bireysel Çalışma  | 14     | 1,50                                 |
| Ders Sonrası Bireysel Çalışma | 14     | 1,00                                 |
| Final Sınavı Hazırlık         | 1      | 2,00                                 |
| Ara Sınav Hazırlık            | 1      | 2,00                                 |
| Tartışmalı Ders               | 4      | 2,00                                 |

#### Assesments

| Activities | Weight (%) |
|------------|------------|
| Vize       | 40,00      |
| Final      | 60,00      |