



**Ağrı İbrahim Çeçen University**  
**Graduate School of Education**  
**Department of Occupational Health and Safety**  
**2020-2021 Autumn Period**

**Assist. Prof. Ebru SENEMTAŞI ÜNAL**  
E-mail: [esenemtasi@agri.edu.tr](mailto:esenemtasi@agri.edu.tr)

**ISG504 – Fire and Fire Protection**

### Course Description and Objectives

- The aim of this course; By giving basic information about the concepts of combustion and fire to the students, the necessary conditions for the fire triangle, the precautions to be taken to prevent the fire, the fire protection methods and the fire extinguishing techniques are given. In addition, the elements that cause fire, chemical substances and their contents are learned. In addition, it is to provide information about the storage of flammable and explosive materials by explaining the fire and explosion hazards in buildings and structures. **Course Objectives- Outcomes**

- Having knowledge about the concepts of Combustion and Fire
- To be able to explain fire classes and extinguishing techniques
- Determining fire hazards and measures to be taken in different sectors according to the legislation
- Knowing fire fighting methods in emergencies and disasters

### Course Syllabuses

| Weeks   | Subject  | Tasks   |
|---------|--|---|
| 1.Week  | <b>Combustion and Fire Concepts</b>                          |   |
| 2.Week  | <b>Fire Classes and Extinguishing Techniques</b>             | Homework 1<br>Investigate what are the major fires that have occurred in Turkey from past to present.   |
| 3.Week  | <b>Fire Extinguisher and Materials</b>                       | Homework 2<br>Do a research on the damages of fire extinguishing techniques that are not selected in accordance with its class. (Prepare at least 5 pages.) |
| 4. Week | <b>Fire Detection and Warning Systems</b>                    |   |
| 5. Week | <b>Fire and Explosion Hazard in Mining-1</b>                 |   |
| 6. Week | <b>Fire and Explosion Hazard in Mining-2</b>                 |   |
| 7. Week | <b>Fire and Explosion Hazard in Buildings and Structures</b> |   |
| 8. Week | <b>Fire Safety in Electrical Systems</b>                     |   |
| 9. Week | <b>Flammable and Explosive Substances</b>                    |   |

|                          |   |  |
|--------------------------|---|--|
| 10. Week                 | <b>Flammable and Explosive Gases</b>  |  |
| 11. Week                 | <b>Storage and Use of Flammable, Explosive and Combustible Materials</b>                                    | Homework 3<br>Prepare a report by scanning the literature on OHS in working with flammable and explosive materials.  |
| 12. Week                 | <b>Fire and Explosion in Emergency and Disasters</b>  |  |
| 13. Week                 | <b>Fire and Explosion in Emergency and Disasters</b>  |  |
| 14. Week                 | <b>Fire Fighting in Occupational Health and Safety</b>  | Homework 4<br>Prepare a report containing the statistics of occupational accidents that occur as a result of fire in workplaces. (Prepare it for a sector you want.) |
| <b>Evaluation System</b> | <b>Semester Studies</b>   | <b>Addition %</b>  |
|                          | Homework (Visa grade)<br>Homework1=Homework2=Homework3=20 Points<br>Homework4=40 Points                     | 40   |
|                          | Final examination   | 60   |
|                          | Total   | 100  |
| <b>Course Resources</b>  | <a href="https://icerik.ataaof.edu.tr/?d=yanmaveyayngin">https://icerik.ataaof.edu.tr/?d=yanmaveyayngin</a> |  |

### Expectations from Participants

- ❖ All participants are expected to attend all classes by making the necessary preparations (detailed in the readings and tasks section) and to be active during the lesson.
- ❖ Reading assignments of each week will be uploaded to moodle system. Students are expected to do the readings before entering the classroom.
- ❖ All assignments will be presented in class. All assignments will be sent to the e-mail address given above. Evaluation will be done by the lecturer giving the course.