

MODULE DESCRIPTION

General

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|------------|---|
| School | Geotechnical Sciences |
| Department | Forest and Natural Environment Sciences |

Module Information

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|------------------|---|
| Title | Analysis and Management of Meteorological Disasters |
| Course Code | OPT.29 |
| Level of Studies | Bachelors |
| Teaching Period | 8 th Semester |
| Attendance Type | Elective (optional) |
| Prerequisites | - |

| Orientation | Weekly Hours | | Year | Semester | ECTS |
|-------------|--------------|-----------------|-----------------|-----------------|------|
| | Lectures | Laboratory work | | | |
| | 2 | 1 | 4 th | 8 th | 3 |

Faculty Instructor

Dimitrios Emmanouloudis – Professor

Type of Module

- General Foundation
- Specific Foundation / Core
- Knowledge Deepening / Consolidation

Mode of Delivery

- Face to face
- Distance learning

Digital Module availability

- E-Study Guide
- Departments Website
- E-Learning

Language

| | Teaching | Examination |
|---------|-------------------------------------|-------------------------------------|
| Greek | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| English | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Erasmus

- The course is offered to exchange programme students

Learning Outcomes

The course teaches the basic methods for the proper management and suppression of meteorological disasters in Greece.

Upon successful completion of the course the student will be able to:

- Recognize major meteorological disasters
- Propose protection and repression works to reduce the risk of meteorological disasters
- Create a comprehensive intervention plan to control and mitigate meteorological disasters

List of General Competences

- Apply knowledge in practice
- Work autonomously
- Work in teams
- Work in an international context
- Work in an interdisciplinary team
- Respect natural environment
- Advance free, creative and causative thinking

Module Content (Syllabus)

Main meteorological disasters in Greece, their main features, meteorological disaster recovery mechanisms, essential data for meteorological disaster analysis, main methods and projects for meteorological disaster protection and suppression, integrated disaster response planning and intervention disaster.

Keywords: Meteorological disasters, mechanisms of meteorological disasters, protection works, integrated plan of intervention

Educational Material Types

- Book
- Notes
- Slide presentations
- Video lectures
- Multimedia
- Interactive exercises
- Other:

Use of Information and Communication Technologies

- Use of ICT in Course Teaching
- Use of ICT in Laboratory Teaching
- Use of ICT in Communication with Students

- Use of ICT in Student Assessment

Module Organization

Please fill in the workload of each course activity

| Course Activity | Workload (hours) |
|---|------------------|
| Lectures | 25 |
| Laboratory work | 25 |
| Field Trip/Short Individual Assignments | 25 |
| Independent Study | - |
| Total | 75 |

* 1 ECTS unit corresponds to 25 hours of workload

Student Assessment Methods

- Written Exam with Multiple Choice Questions
- Written Exam with Short Answer Questions
- Written Exam with Extended Answer Questions
- Written Assignment
- Report
- Oral Exams
- Laboratory Assignment

Suggested Bibliography (Eudoxus and additional bibliography)

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| 1. Weekly notes will be provided |
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