

## SYLLABUS DEL CORSO

### Gestione delle Emergenze Idrogeologiche

2021-2-F7501Q056

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#### Aims

The Hydrogeological risk assessment and management is the principal aim of the course.

As well the disaster management cycle will be analyzed with particular attention on the prevention and mitigation part. Successively, The Italian national and regional laws will be studied especially for the emergency planning.

During the classes, GIS will be used to create an emergency plan.

#### Contents

##### Detailed program

- Basic Knowledge of hydrogeological risk
- Hydrographic basin
- Risk management cycle: Prevention and mitigation, Preparedness, Alert, response, recovery, post disaster.
- Civil protection role
- Regional and local laws,
- Italian Civil protection role: prevision, prevention, response, post disaster

- Emergency planning
- Hydrogeological hazard assessment
- Hydrologic data, what and where
- Precipitation measure
- Principal Italian pluviometric systems
- Hydrographic basin and discharge models
- GIS hydrologic processes

## **Prerequisites**

Environmental geology

## **Teaching form**

- Lessons tutorials, 4 credits - 32 hours

- Laboratory experiences, 2 credits - 20 hours

For the duration of the Covid-19 emergency period, the lecture classes will take place remotely.

## **Textbook and teaching resource**

Didactic material provided by the teacher and available on UNIMIB elearning website

## **Semester**

second semester

## **Assessment method**

The student must prepare a written report on a topic chosen by him/her, concerning the topics dealt with during the course, which is then discussed with the teacher on the day of the oral exam.

The object of the evaluation will be to verify that the theses and topics covered have a logical filum that starts from the objectives and ends with the conclusions. The oral test will focus mainly on the presentation of the report and the verification of knowledge of the issues dealt with during the course.

During the Covid-19 emergency period, oral exams will only be online, using the WebEx platform. The e-Learning page of the course will contain a public link to allow the potential audience to witness the exam.

## **Office hours**

always

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