



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### **Advanced Experimental Testing and Monitoring on Geomaterials (Laboratory and In Situ) (Curricular - Geology)**

2223-94R-SCGA23

---

#### **Titolo**

**Advanced experimental testing and monitoring on geomaterials**

#### **Docente(i)**

Riccardo Castellanza

#### **Lingua**

English

#### **Breve descrizione**

The aims of this course are: i) provide a specific knowledge and training on advanced experimental testing method for geomaterials (both in laboratory and in situ); ii) provide a specific background of recent monitoring methods for geo-structures or protective defense. The course is focused on the definition of geo-mechanical, hydrogeological and chemical behaviour of soils and rocks. The specific requests of the PhD students attending the course will be considered.

The course is subdivided in 4 parts:

1) experimental apparatus, sensors, datalogger and controller unit for testing geomaterials.

2) advanced laboratory tests on soil and rocks for idro-chemo-mechanical characterization

3) in situ testing overview of recent and innovative devices

4) monitoring of the main physical variables with the most recent devices

Evaluation: YES

### **CFU / Ore**

2 CFU - 20 Hours (8h lecture - 12h laboratory training)

### **Periodo di erogazione**

I semester

---