



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

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

2122-94R-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
