

Syllabus 2020/21

Teacher (name and affiliation)	Riccardo Castellanza (UNIMIB, Dep. Earth and Environmental Sciences)
Title	Advanced experimental testing and monitoring on geomaterials (laboratory and in situ)
Language	<i>English</i>
CFU	2
Hours	20 (10 lessons, 10 laboratory training)
Program	<p><i>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.</i></p> <p><i>The course is subdivided in 4 parts:</i></p> <ol style="list-style-type: none"> <i>1) experimental apparatus, sensors, datalogger and controller unit for testing geomaterials.</i> <i>2) advanced laboratory tests on soil and rocks for idro-chemo-mechanical characterization</i> <i>3) in situ testing overview of recent and innovative devices</i> <i>4) monitoring of the main physical variables with the most recent devices</i>
Evaluation: YES/NO	YES
Calendar	<i>I semester</i>