MEEES – paths in Grenoble 2012-2013

common courses (6 ECTS)
Basic Geomechanics (3)
Basic Engineering Seismology (3)

engineering seismology path

mandatory courses (18 ECTS)
Active Faults and Remote Sensing (3)
Active Seismic Exploration and Passive Techniques for Soil and Building Investigations (3)
Probabilistic Seismic Hazard Assessment (3)
Advanced Engineering Seismology (3)
Theoretical Seismology and Numerical Modeling of Ground Motion (6)

option course (2 to choose from the following)
Non-invasive Site Characterization (3)
Signal Processing (3)
Durability and Vulnerability of Structures and Associated Risks (3)
Soil Dynamics and Nonlinear Site Response Analysis (3)

geomechanics path

mandatory courses (12 ECTS)
Numerical Methods for Nonlinear Mechanics (6)
Selected Topics in Continuum Mechanics (6)

option courses (4 to choose from the following)
Advanced Soil Mechanics (3)
Advanced Rock Mechanics (3)
Advanced Concrete Mechanics (3)
Dynamics of Structures (3)
Behavior of Geotechnical Structures (3)
Durability and Vulnerability of Structures and Associated Risks (3)
Soil Dynamics and Nonlinear Site Response Analysis (3)
Advanced Engineering Seismology (3)
Signal Processing (3)

courses offered to both paths