



**The ROSE
School Master's**
in Earthquake
Engineering

Seismic Hazard and Engineering Seismology

Lecturer: V. Poggi
Date: 02/03/2026 – 27/03/2026
Semester: First
Credits: 6 ECTS (CFU)

Course Description

The course aims at providing the students with the essential knowledge and skills to face most common seismology problems in engineering and applied geophysical practice. The course splits into two main blocks. In the first module, topics of engineering interest are discussed, such as intensity measures, ground motion prediction equations, earthquake occurrence analysis, seismotectonics, seismic hazard assessment (deterministic and probabilistic); in the second module hints of theoretical seismology are provided, with a focus on wave propagation and source representation issues.