



UNIVERSITÀ
degli STUDI
di CATANIA

DEPARTMENT OF BIOLOGICAL, GEOLOGICAL AND
ENVIRONMENTAL SCIENCES
Master's Degree in Geophysical Sciences
Academic Year 2019/2020 - 1° Year

SISMOLOGIA CON LABORATORIO

9 CFU - 2° Semester

Teaching Staff

STEFANO GRESTA - Module Seismology - GEO/10 - 6 CFU

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DETAILED COURSE CONTENT

▪ Seismology

Theory of elasticity. Stress and strain tensors. Equations of Navier. Equations and propagation of P and S waves. Seismic energy. The Snell's law.. Seismic networks. Hypocentral locations. The Richter's magnitude Foreshocks and aftershocks. Omori's and Gutenberg-Richter's laws. Elastic dislocations. Seismic sources. Focal mechanisms. Source parameters.

TEXTBOOK INFORMATION

▪ Seismology

Lay e Wallace - Modern global seismology, Academic Press, 1995
