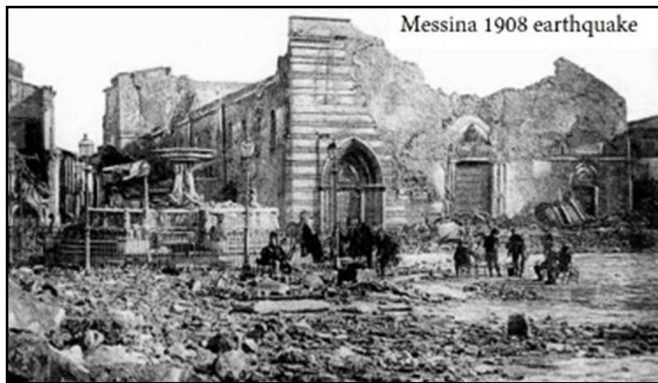


# Geophysical Sciences for Seismic Risk

Code LM-79 (Geophysical Sciences)

This Master's Degree Course will prepare specialists in Geophysics and Geology playing roles of responsibility in different fields of private and public administrations, such as consulting, academic, government and local State administration. The Course will furnish major skills in the field of seismic risk mitigation allowing the future graduate to work in synergy with Civil Engineers, Land planners, Civil Protection Officers. Based on the existing cooperation and mobility with other Universities of nearby countries, major attention will be paid to seismic risk of the Mediterranean region.



Messina 1908 earthquake

This advanced course in Geophysics awards a M. Sc. Degree on 120 ECTS (European Credit Transfer System) and is taught in English.

The course runs for 2 years and in the end the students will debate a dissertation on advanced topics in geophysics and geology.



Laboratory and field activities will play a basic role in the formation. The Master's Degree Course will furnish different opportunities, such as:

- UNIME, <http://cerisi.unime.it/en.html>
- <https://www.unime.it/it/dipartimenti/mift/servizi-e-strutture/laboratori>
- INGV, Catania, <http://www.ct.ingv.it/en/>
- CRUST, <https://www.crust.unich.it/>

## ORGANIZATION OF TEACHING ACTIVITY

FIRST YEAR	
<i>First Period</i>	<i>Second Period</i>
Physics of environmental processes	Geophysical tools Mod.A - Geophysical Observation Methods and Remote Sensing Mod.B - Tsunami Risk
Earthquake Geotechnical Engineering	Environmental Geology
Prevention of earthquake disasters Mod.A - Seismic monitoring and surveillance Mod.B - Seismic Risk	Earth shallow structure and seismic response Mod.A- Active and Passive Seismology Mod.B - Laboratory of Seismic Data Processing and Field Campaign
Additional language skills	Fundamentals and Applications of Petrology
SECOND YEAR	
<i>First Period</i>	<i>Second Period</i>
Applied Geology and Land Use / Quaternary geology and active tectonics	Student choice disciplines and/or activities
Dynamics of structures	Training course
Physics for cultural heritage protection	
Seismo-induced Chemical Risk	Thesis

## Minimal Entry Requirements

Enrollment will be allowed to the candidates having a Bachelor degree (or equivalent) in scientific Courses, with basic knowledge of Earth Sciences. The Council of the Master Degree Course will evaluate for enrollment the curriculum of the candidates.

## Language Requirements

English language B2-level based on the European Framework of Reference for Languages is required.

Candidates from countries whose official language is English do not need to hold a certificate of English language competence.

## Enrollment

Enrollment at Italian Universities is regulated by the national law establishing various access procedures for students holding a foreign degree. For useful information and scholarship opportunities:  
<https://international.unime.it/>  
<https://www.unime.it/it/cds/geophysical-sciences-for-seismic-risk>  
<https://www.universitaly.it/index.php/>  
[https://studyinitaly.esteri.it/en/home\\_borse](https://studyinitaly.esteri.it/en/home_borse)



## Location

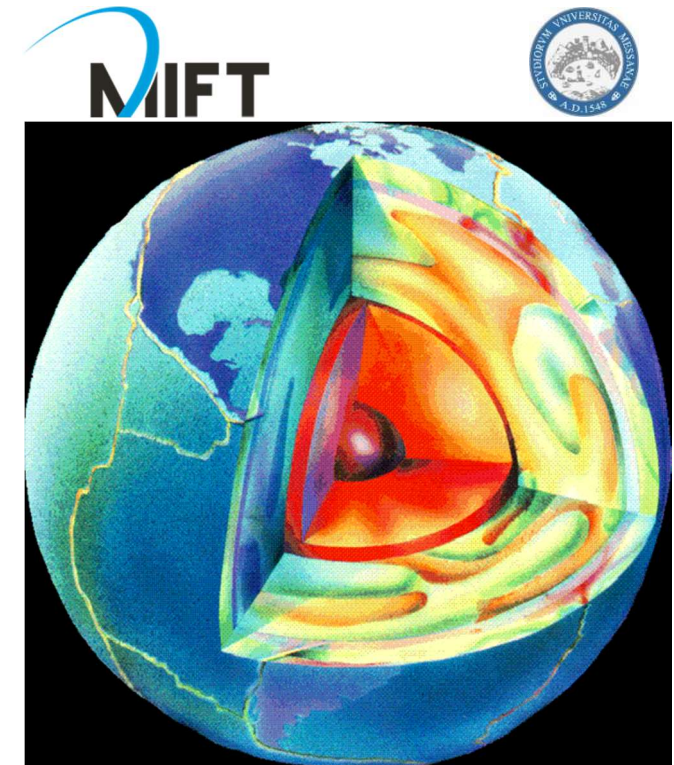
Department of Mathematics, Informatics, Physics and Earth Sciences (MIFT)  
Viale F. Stagno d'Alcontres, 31  
98166 Messina, ITALY

## Scientific Coordinator

*Prof. Debora Presti*  
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<https://www.unime.it/it/persona/debora-presti/curriculum>

## Contacts

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## MASTER'S DEGREE COURSE IN GEOPHYSICAL SCIENCES FOR SEISMIC RISK

