

INSPIRING GLOBAL CHANGE SINCE 1222

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SCHOOL OF SCIENCE

# GEOPHYSICS FOR NATURAL RISKS AND RESOURCES

The Master's degree programme provides professionals and researchers with a wide range of solid theoretical and practical skills, including physical methodologies for soil and subsoil exploration and characterisation at different spatial scales. Students can focus either on the management of natural resources and environmental and engineering disciplines, or on large scale geophysical applications, such as subsoil exploration for mining and energy resources.



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA

# GEOPHYSICS FOR NATURAL RISKS AND RESOURCES

**LEVEL** Master

**SCHOOL** Science

**DEPARTMENT** Geosciences

**DURATION** 2 years (120 ECTS)

**START DATE** October

**LOCATION** Padua, Italy

**PROGRAMME COORDINATOR**

Giorgio Cassiani

**WEB**

[www.unipd.it/en/geophysics-natural-risks](http://www.unipd.it/en/geophysics-natural-risks)

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**TOP 150** 2024  
Earth and Marine Sciences



## ENTRY REQUIREMENTS

- Bachelor's degree (or equivalent), with proven skills in disciplines such as Geology, Physics, Engineering, Mathematics and Computer Sciences
- English language: B2 level (CEFR) or equivalent

## PROGRAMME STRUCTURE

Common Path: Solid Earth Geophysics, Applied Geophysics, Electromagnetism, Basic Geology, Mathematical Physics for the Earth System, Digital Data Processing, Environmental and Engineering Geophysics, Exploration Seismology.

Path 1: Exploration Seismics, Numerical Methods, Management and Analysis of Physics Data, Laboratories of Computational Physics, Advanced Statistics, Statistical Mechanics, Machine Learning.

Path 2: Geophysics for Cultural Heritage, Seismic Response of Built Structure, Applied Hydrology, Geotechnics, Geothermics.

## TUITION FEES AND SCHOLARSHIPS

Annual fees: up to € 2,900 (3 instalments)

Scholarships and fee-waivers for international students available: [www.unipd.it/en/funding-and-fees](http://www.unipd.it/en/funding-and-fees)

## CAREER OPPORTUNITIES

Graduates work as Exploration Geophysicists or Applied and Environmental Geophysicists or as consultants in oil and gas and renewable energy industries, civil engineering/constructions companies, insurance enterprises, either in public or private sectors. They can sit the examination to become professional geologists and they can also pursue a career as researchers, starting from a PhD in Earth Sciences.