



UNIVERSITÀ
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POLYTECHNIC UNIVERSITY OF MARCHE

MASTER OF SCIENCE DEGREE IN ENVIROMENTAL HAZARD AND DISASTER RISK MANAGEMENT



Degree Class: LM-75

Duration: 2 years

ECTS credits: 120

Language: English

**Department of Life and
Environmental Sciences**

Director

Prof. Francesco Regoli

Location

Polo Monte Dago
Via Brece Bianche
Ancona, Italy

Course Coordinator

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COURSE DESCRIPTION

Our MSc program in Environmental Hazard and Disaster Risk Management trains specialists on the complex relationship between humans and the environment. In the context of sustainable management of natural resources and of disaster risk management, students gain specific interdisciplinary skills on different typologies of environmental hazards (chemical, geological, climatic, biological, ecological), risk assessment, disaster risk reduction and management, at multiple levels: forecasting, prevention and mitigation of extreme natural events, management of emergencies, environmental protection.

MAIN FEATURES OF THE PROGRAM

Innovative Teaching: the learning process takes place through lectures, field practice, site visits, group projects, laboratory works, lecture recordings.

Collaborative Environment: active and constant interaction between students and professors, for a supportive and stimulating educational experience.

High-Level Internships: partnerships with national and international universities, research institutions, regional and national authorities, and public and private companies.

Top Researchers involved: professors are engaged in innovative research projects where students are involved.

CAREER OPPORTUNITIES

- Public and private organizations responsible for controlling and protecting the environment
- International, national and local authorities and institution with civil protection functions
- Consultancy companies (alternative energies, workplace safety, environmental certifications)
- Energy Service Companies
- Research organizations focused on the study of environmental conditions and on disaster risk management
- Industries, with roles related to safety and sustainability
- International agencies (United Nations, European Union, non-governmental agencies)

COURSE ORGANIZATION

The program is divided into 2 cycles per year (from last week of September to mid-January and from mid-February to end of May), corresponding to the achievement of 120 ECTS in 2 years.

The program offers flexibility through elective courses/credits.

To complete the degree program, an internship is required as a practical experience carried out in public/private organizations with collaborative agreements with the University.



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Study Plan

1st year

Course	ECTS
Biological and ecological risk	8
Chemical and industrial risk	8
Geological risk	6
Climatic risk	6
Environmental legislation and monitoring	10
GIS for environmental hazard and disaster risk management	6
Artificial intelligence for environmental management	3
Energy and Environmental sustainability	12
• Environmental sustainability	
• Renewables and innovative energy systems	
Elective professionalizing activities (choose two from this list):	4
Environmental monitoring techniques	
Communication techniques	
Earthquake risk mitigation	
Marine emergencies	
Emergency psychology	
Disaster bioethics	
Grant proposals	

2nd year

Course	ECTS
Integrated approaches to disaster management	12
• Disaster management	
• Disaster medicine	
Disaster risk reduction	7
Waste management and environmental remediation	6
Nature conservation and management of protected areas	6
Elective course: Environmental certifications and procedures	4
Elective course: Fire risk management and safety regulation	4
Internship	4
Final thesis	14



ADMISSION REQUIREMENTS

The training path is a continuation of the bachelor's degree course in Environmental Sciences and Civil Protection of this university and it is also open to graduates of other degree classes, interested in extending their knowledge and know-how on environmental hazard and disaster risk management. The access to the course is open, subject to the verification of the curricular requirements and, if needed, an interview will assess the adequacy of the preparation.

Level of language proficiency required: English level B2. All details can be found here:

<https://www.international.univpm.it/english-language-requirement/>

For the pre-evaluation of eligibility to the program candidates should apply here:

<https://www.international.univpm.it/international-admissions-ay-2025-26-final/>

Non-EU applicants residing outside Italy should complete the Pre-enrolment application on the University portal

<https://www.universitaly.it/first-steps>

After completing the pre-enrolment application and obtaining validation from the University, candidates should apply for a student Visa at the Italian Embassy or Consulate in their country of residence.

All details regarding the pre-evaluation, entrance test and enrolling procedures are specified in the Teaching Regulation.

Find useful information at:

<https://www.orienta.univpm.it/en/discover-univpm/>



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