

Location

Classes and other academic activities are hosted either at the Cravino Campus of the University of Pavia or at the Palazzo del Broletto of the University School of Advanced Studies in downtown Pavia.

Experimental activities connected to the Master dissertation of students enrolled to the ROSE Programme will be carried out at the EUCENTRE Lab Facilities.



IUSS

University School of Advanced Studies



**UNIVERSITY
OF PAVIA**

Contacts

Master Programme web site: <http://civrisk.unipv.it/>
Master Programme coordinator: Prof. Guido Magenes
E-mail: info-civrisk@unipv.it

University of Pavia
Faculty of Engineering
Via A. Ferrata, 5 Pavia 27100 ITALY
Web site: <http://webing.unipv.eu/>

University School of Advanced Studies of Pavia (IUSS)
Graduate Office - Palazzo del Broletto
Piazza della Vittoria, 15 Pavia 27100 ITALY
Web site: <http://www.iusspavia.it/>

EDiSU – Scholarships and more
via Calatafimi, 11 - 27100 Pavia
Web site: <http://www.edisu.pv.it/>

Welcome Point @UNIPV
Address: C.so Strada Nuova 65, Pavia 27100 ITALY
Email: welcomepoint@unipv.it
Phone: +39 0382 98 -4018 -4019 -4021
Fax: +39 0382 984629

Master's Degree in CIVIL ENGINEERING for MITIGATION OF RISK from NATURAL HAZARDS

#UNIPAVIA



IUSS and UNIPAVIA

The University School of Advanced Study (IUSS) was established in 1997 and fulfils an advanced teaching and research model successfully implemented by two other prestigious institutions in Italy, the Scuola Normale Superiore and the Scuola Sant'Anna in Pisa. The core mission of IUSS is to offer a number of selected students qualified programmes at an international level enhancing their capabilities and knowledge in an interdisciplinary fashion.

The University of Pavia is one of the oldest in Europe. It is a multi-disciplinary university and it includes several disciplines, 3 campus hosting about 25.000 students and the largest Residence Hall system in Italy.

International Master Program

The University of Pavia and the University School of Advanced Studies of Pavia present a new International Master of Science Programme in Civil Engineering for Mitigation of Risk from Natural Hazards, involving two curricula:

- Reduction of Seismic Risk (ROSE)
- Hydrogeological Risk Assessment and Mitigation (HYRIS)

The ROSE Programme focuses on the assessment and mitigation of seismic risk of new and existing structures and infrastructures.

The HYRIS Programme focuses on the assessment of risk caused by floods, avalanches and landslides to new and existing structures and infrastructures, and on the measures that can be envisaged for its mitigation.

Courses are taught in English by highly qualified professors with an internationally recognized scientific profile. Lectures are integrated with tutorials, lab sessions and seminars illustrating well-documented case histories drawn from the personal experience of the instructors.

The Master in Civil Engineering for Mitigation of Risk from Natural Hazards jointly offered by the University of Pavia and the University School of Advanced Studies of Pavia provides advanced technical training in structural, geotechnical and hydraulic engineering and hydrogeology.

Objective and Organization

The Master Programme has a two-year duration, starting late September and calls for a full-time commitment. Courses are scheduled according to a dual system: most courses are taught as intensive, full-time courses of 4 weeks, while a few are taught over the typical semester time-frame.

The Master Programme will provide students with the proper theoretical background in fundamental disciplines including applied mathematics, solid and fluid mechanics to fully master the topics taught in advanced technical courses.

As a part of their training, students will be required to spend a whole semester to work on a Master Dissertation where they will have the opportunity to participate in state-of-the-art national and international projects. Students may also be involved in the use of cutting edge experimental facilities such as the EUCENTRE shake tables, the largest of which is currently the most powerful earthquake simulator in Europe.

Cooperation Agreements

Cooperation agreements of the University of Pavia and the University School of Advanced Studies of Pavia with a number of renowned academic institutions and companies worldwide actively involved in risk mitigation from natural disasters are currently operational.

Formal agreements have currently been established with top universities in Europe, USA, Canada, South America, China and New Zealand.

HOW TO APPLY

Admission Requirements

A Bachelor Degree in Civil or Environmental Engineering acknowledged by the Italian Government is required.

An Examining Committee will assess the applicant's academic career to ascertain the compliance of his/her plan of study with the requirements of the Master Programme.

English knowledge equal to B2 or higher level of the Common European Framework is required.

Lower-income students may be eligible to apply for EDISU and other type of scholarships.

Career Opportunities

This Master is designed to shape civil engineers with outstanding scientific and professional skills who are fully aware of the multi-faceted aspects of seismic and hydrogeological risk.

