Two-year MSc in
CIVIL ENGINEERING
FOR MITIGATION
OF RISK FROM
NATURAL HAZARDS
The Master degree program in Civil Engineering for Mitigation of Risk from Natural Hazards is jointly offered by the University of Pavia and the School of Advanced Studies of Pavia (IUSS). The program is structured in two curricula: Reduction of Seismic Risk (ROSE) and Hydrogeological Risk Assessment and Mitigation (HYRIS).

The first curriculum Reduction of Seismic Risk (ROSE) focuses on assessment and mitigation of risk caused by earthquakes to new and existing structures and infrastructures.

The second curriculum Hydrogeological Risk Assessment and Mitigation focuses on the assessment of risk caused by floods, avalanches and landslides to new and existing structures and infrastructures, and on the structural and non-structural measures which can be envisaged for its mitigation. In both cases, the study of specific topics is preceded by a number of propaedeutic courses, which include numerical analysis, probability and statistics, computational solid mechanics, soil mechanics, and consulting offices, construction companies, civil protection agencies, government institutions, regional authorities, asset and re-insurance companies, research institutions in Italy and abroad.

Students may find job opportunities in engineering design offices, construction companies, civil protection agencies, government institutions, regional authorities, asset and re-insurance companies, research institutions in Italy and abroad.

For EU students fees are based on students' family income. They range from about €160 to €400 per year. For Non-EU students a flat rate is determined according to country of origin and range from €400 to €4500.

Subjects

Students are going to study the following subjects and much more:

- Reduction of Seismic Risk (ROSE): advanced methods of structural analysis, seismic design and verification of the structures, geotechnics applied to seismic engineering, land foundations and retaining structures, seismic risk and hazard assessment, structural interventions for the reduction of flood risk, flood risk assessment, landslides, flood propagation and structural interventions for the reduction of flood risk, hydrogeological risk, applied geology and hydromorphology.

For more details please visit civrisk.unipv.it or contact info-civrisk@unipv.it.