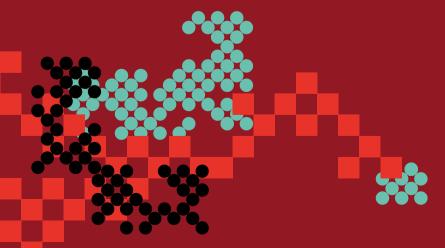
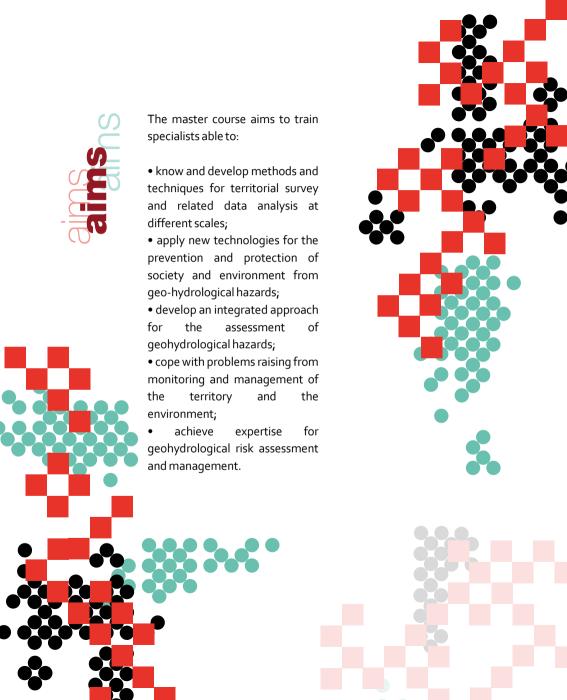


international and Geoengineering (GEM) is an interdisciplinary master devoted to train spetechnicians/practitioners in the activities of monitoring, specialist design and management of systems, and structures for geohydrological risk reduction with particular reference to floods, landslides, subsidence, sinkholes, earthquakes and general slope and scale to basin dynamics. will full teaching be in The Geoengineering curriculum is developed in the framework of the UNESCO Chair on Prevention and Sustainable Management of UNESCO Geo-Hydrological Hazards established at the University of Firenze. The Chair mission is to promote Education, Research and Development for the prevention and management of geo-hydrological hazards, in order to support policies and actions for risk reduction.



admission requirements

To be admitted to the Master Course in Geoengineering a first cycle or a single cycle degree awarded by an Italian or a foreign University is required. Applying students have to meet general educational requirements and possess adequate personal education background, certified by a specific authorization (nulla osta) issued by the Education Committee of the Geoengineering Msc. Furthermore, a knowledge in English Language B2 Level is required.



In Geoengineering you are trained in an interdisciplinary environment, learning how to analyse and manage complex environmental conditions, geohydrological processes and problems.

As a Geoengineering student, you'll develop in-depth scientific knowledge and technical skills to design, plan, and manage complex and innovative systems, processes and services on a territorial scale. Methods and techniques for territorial investigation, environmental monitoring, analysis and data integration at different territorial scales will be key intermediate learning goals.

The teaching program provides fundamental tools for quantitative analysis of engineering systems in geological the context of processes, their time evolution and their modelling, especially for application purposes, prevention, protection of society and environment from hydrogeological risk. The programme implemented is through a two-year study plan (120 ECTS - European Credit Transfer 120 CFU (Crediti System or Formativi Universitari) in accordance with the learning objectives in different sectors, i.e. structural mechanics, geotechnics, hydrology and hydraulics, geology and engineering geology, integrated through advanced numerical methods, statistics and geomatics.







In order to obtain the second cycle degree, a final exam must be performed.

In order to be admitted to the final exam, students must have obtained all the ECTS included in their study plan and foreseen by the official Educational Rules of the degree course.

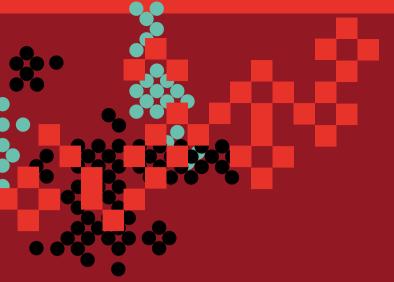
Integral part of the final exam are at least 3 ECTS of stage/ traineeship that must be officially activated through the stage office of the School of Engineering or with the help of the professors in charge of the organization.

The student manages the preparation and discussion of the final thesis under the supervision of two university professors and a tutor from the company/agency or laboratory where the traineeship was activated.

Students working on the final thesis should apply advanced methodologies linked to research technological innovation activities in specific sectors, in accordance with the learning objects of the degree course. In this way, the student will achieve knowledge and autonomous judgement competences specific the sectors, under coordination of his/her supervisors.

The final thesis m<mark>ust be w</mark>ritten in English and th<mark>e th</mark>esis defence will be performed in English.





offices and contacts

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