

## ORGANIZE YOUR STAY IN ITALY

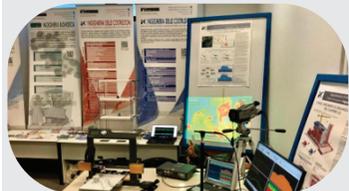
International students (scholarships and enrollment):  
<https://www.unich.it/didattica/international/international-students>

Student Help station: <https://helpstation.unich.it>

Reception point, with access to information relating to the University and the territory, in order to facilitate its usability by students, offering them support in the search for services.

## ABOUT US

The Department of Engineering and Geology (InGeo) is composed of scientists belonging to the Engineering, Earth System, Mathematics, Chemical and Physical Sciences. It is organized in two sections: Engineering and Geology. Engineering is mostly focused on mechanical, hydraulic and energetic behaviour of structures and their safety, Biomedical Engineering. Geology studies Earth and Planetary systems, natural and anthropogenic hazards, materials, geo-resources and the environment.



## LOCATION

The University d'Annunzio is split in two campuses in the cities of Chieti and Pescara (Italy). Classes and other academic activities are hosted in the Pescara campus (Viale Pindaro 42). Pescara is a seaside city with a long beach facing the Adriatic Sea, it is a lively city located in a coastal plain at the borders of the highest peaks of the Apennine.



## CONTACTS

### DEPARTMENT



### MASTER'S DEGREE



Master's Degree Courses coordinator:  
Prof. Alessandro Pagliaroli  
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Master's Degree Courses secretary:  
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University "G. d'Annunzio" of Chieti Pescara  
Department of Engineering and Geology

Master's Degree in Building Engineering  
Curriculum in  
*"Engineering and Management of  
Cultural Heritage"*



San Michele in Villa Sant'Angelo, L'Aquila, Abruzzo

## STUDY PROGRAM

Courses are taught in English by professor from INGEO Department and highly qualified international Universities.

## ADMISSION REQUIREMENTS

A Bachelor Degree in Civil/Environmental Engineering or Building Engineering/Architecture acknowledged by the Italian Government. A pre-enrolment procedure will evaluate the applicant's career to assess its compliance with the requirements of the Master's Degree in Cultural Heritage (CH).

## WHY CHOOSE US?

Abruzzo is a region located in central Italy that features a coastal-hillside and a mountainous part, hosting three national parks. This geo-morphological conformation makes Abruzzo a territory rich in history and culture, with historical villages, medieval castles, and majestic churches.



Castello Aragonese di Ortona, Chieti, Abruzzo

# 1 YEAR

## COURSE

### I.C. on Techniques for Historical Buildings Rehabilitation and Restoration:

*Conservation Theory of Historical Buildings and Heritage Conservation  
Renovation, maintenance and conservation of historical buildings*

### Computational Analysis of Historical Buildings and Cultural Heritage

*CAHBCH\_Modulo1*

*CAHBCH\_Modulo2*

### Applied Acoustics and Lighting in Cultural Heritage

### I.C. of Structural Diagnostics for Cultural Heritage:

*Structural Dynamics*

*Seismic Behaviour of Historical Buildings*

### Close Range Photogrammetry and 3D Laser Scanning

### Geotechnical Engineering for the Preservation of Cultural Heritage

*Soil mechanics, laboratory and in situ testing*

*Analysis and design of geotechnical structures*

### Natural and Artificial Materials for Historical Buildings and Cultural Heritage

# 2 YEAR

## COURSE

### HVAC for Historic Building and Cultural Heritage:

### Structural Monitoring and Diagnostics

### I.C. Masonry and Historical Structures

*Structural Strengthening*

*Masonry and Wood Structures of Historic Buildings*

### I.C. of ICT in Cultural Heritage:

*Heritage BIM*

*Information Systems in Cultural Heritage*

### Optional courses

*Seismic Geotechnics for Geohazard Risk Mitigation in Cultural Heritage*

*Geophysical methods for cultural heritage*

*Mineralogical and Petrographical Characterization of Natural and Artificial Stone Materials*

### Traineeship

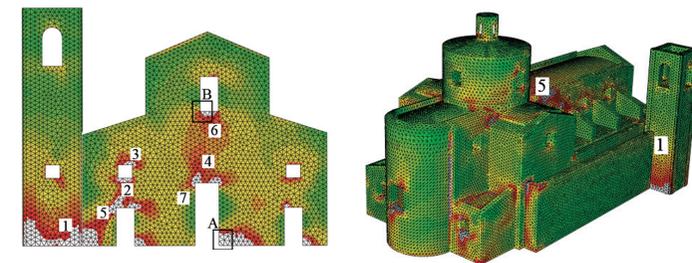
### Thesis



Castello di Roccascalegna, Chieti, Abruzzo

## OBJECTIVES AND ORGANIZATION, CAREER OPPORTUNITIES

One of the field of activity of Civil Engineering is the maintenance of existing construction and infrastructures, among these the Cultural Heritage (CH). The conservation of CH is one of the most challenging problems facing modern civilization involving aspects belonging to many different disciplines. Italy has 60-70% of the world's cultural assets according to UNESCO's estimates and hosts in Pescara this two-years Master's Degree providing a proper background in the fundamental disciplines involved in the monitoring, safety evaluation, rehabilitation and restoration of the existing heritage. The final Master dissertation as well the traineeship give to the students the opportunity to be involved in the national and international projects of InGeo on CH topics. This Master is designed to shape Engineers with multidisciplinary professional skills to manage the puzzling problems related to the maintenance, preservations and restorations of existing structures, monuments and historic sites. These Engineers will be able to couple the requirements of a safety use of the CH with the respect of formal and historical identity.



Chiesa Santa Gemma, Goriano Scoli (AQ), Abruzzo