APPLICATIONS AND REQUIREMENTS

International candidates must have a Bachelor's degree in Website Geological Sciences, Environmental Sciences, Physics, Math- www.dst.unipi.it ematics, Civil and Environmental Engineering, Telecommunications Engineering, Electronic Engineering, or have an equivalent diploma. Adequate knowledge of English is mandatory (B2 level).

Candidates must apply online at applymscenglish.unipi.it. Successful applicants must follow the University of Pisa's standard enrolment procedure.

More details at: www.unipi.it/enrolment.

ENROLMENT AND FEES

Enrolment instructions are available at matricolandosi.unipi.it/en. Fees depend on the student's country of origin and vary from € 356 euros to € 2,452 for each academic year. Information on fee waivers, extraordinary contribution and scholarships can be found at www.unipi.it/tuition-fees.

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Università di Pisa





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MSc Programme in **Exploration and**





UNIVERSITÀ DI PISA

The University of Pisa (UNIPI) is a public institution composed of twenty departments, with high level research centres in the fields of agriculture, astrophysics, computer science, engineering, medicine, veterinary medicine and geosciences.

Established in 1343, UNIPI is one of the most prestigious Italian higher education institutions and a modern centre for teaching and advanced research.

One of the University's main strategies is that of internationalisation as it aims to engage with students and researchers and establish longterm partnerships with universities and public and private institutions from all over the world.

With a current student population surpassing 54,000, UNIPI offers a large number of degree programmes held in English and a variety of exchange programmes.



Study Geophysics in Pisa

The MSc in Exploration and Applied Geophysics was established by the Department of Earth Sciences and the Department of Physics, with the contribution of the Department of Information Engineering, of the University of Pisa, and the Polytechnic of Milan. The MSc trains geophysicists with a solid preparation and with specialized skills to face and solve geophysical and engineering problems. The principal applications of the acquired knowledge are in the domains of exploration and production of energy and mineral resources, investigation for engineering and environment, and geological and archaeological research. The MSc is supported by numerous public and private institutions collaborating through specialized courses, seminars and internships. The students will acquire hands-on experience using industry standard software and equipment. Students enrolled in the MSc course

may also apply for admission to the Double Degree Programme "International Master of Applied and Exploration Geophysics", jointly developed by the University of Pisa and the Montan University of Leoben (Austria).

COME AND THRIVE

- Enjoy a valuable and multicultural learning experience Get involved with cutting edge research
- Learn geophysical methods and techniques to explore the Earth Develop a solid interdisciplinary
- Gain a problem-solving orient ed approach

PROGRAMME OVERVIEW

FIRST YEAR

Exploration seismology and Laboratory of digital data p Laboratory of seismic data campaign

Signal Processing for Physic

TOTAL

COURSES SELECTED ON T BACKGROUND

Complements of Mathema Rock Physics

Instrumentation for Geoph Geophysics Fundamentals of Geology Radar Geomorphology Applied Geophysics Tectonics & Sedimentation Seismic Imaging Geoarchaeology and Geoph Complements of Electromag TOTAL

SECOND YEAR Inverse Problems in Geoph Applied Geophysics **Final Examination**

ECTS

geophysical well-logs	9
rocessing	6
processing and field	6
S	6
	27
HE BASIS OF STUDENT	ECTS
ics and Physics	6
	6
vsics and potential	6
	6
	6
	6
	6
	6
ysical techniques	3
gnetism and Optics	3
	54
	ECTS
vsics	6
	6
	40

Exploration and Applied Geophysics is a discipline that combines principles of physics with knowledge of geology, engineering and digital signal processing to develop non-invasive investigation methods and techniques aimed at studying the Earth's subsurface (from few centimeters to few kilometers), as well as human artefacts.

PROFESSIONAL PROSPECTS

Our graduates develop strong interdisciplinary skills and learn how to use an approach which is oriented towards problem solving. By the end of the programme, they will possess a high quality curriculum attractive to many innovative industries acting in the worldwide "geophysical market". This market includes the geophysics for natural resources (hydrocarbon, geothermal, mining), environment, civil engineering and archaeology.