



Maestría en **GEOTECNIA**

RPC-SO-20.No-292-2018

Postgrados
esp[®]



SCHEDULE

THURSDAY AND FRIDAY

18h30 - 21H30

SATURDAY AND SUNDAY

08h00 - 13H00



DURATION

1 year

CREDITS

30

MODALITY

Hybrid

ADMISSION REQUIREMENTS

- Certificate of registration for a third-level degree (SENESCYT).
- National identity card and updated voting certificate.
- Academic record.
- Updated resume.
- Letter of recommendation.
- Statement of purpose.
- English level B1.
- Aptitude test with an English component.



ADMISSION PROFILE

- Civil Engineers
- Geological Engineers
- Mining Engineers
- Environmental Engineers

* The mentioned admission profiles are preferred, but students from other fields with the required experience may also be admitted.



STUDY PLAN

- Disciplinary Training
- Research
- Graduation

**M
01**

Geology and Applied
Hydrology

**M
02**

Advanced Soil
Mechanics

**M
03**

Advanced Rock
Mechanics

**M
04**

Field and Laboratory
Testing in Geotechnics

**M
05**

Seismic Engineering

**M
06**

Geophysical Exploration
Methods

**M
07**

Research
Methodology

**M
08**

Geotechnical Soil
Improvement

**M
09**

Slope Design and
Reinforcement in Soil

**M
10**

Numerical and Constitutive
Models in Soil Mechanics

**M
11**

Research in
Geotechnics

**M
12**

Design of Shallow and
Deep Foundations

**M
13**

Elective Course

**M
14**

Graduation Unit

Each module has a duration of 32 hours.

SOME OF OUR PROFESSORS



Sara Amoroso

Research Professor

Ph.D. in Civil and Environmental Engineering, University of L'Aquila, Italy.

Areas of Interest: In situ testing, seismic dilatometer, liquefaction, and blast testing.



Danilo Dávila

General Manager of DAVIMEN S.A

Master of Science in Engineering with a Specialization in Structural and Geotechnical Engineering

Areas of Interest: Soil dynamics, site response analysis, slope stability, geotechnical and geophysical prospecting, shallow and deep foundations.



Simonetta Cola

Research Professor

Ph.D. in Geotechnical Engineering, Università degli Studi di Padova, Italy.

Areas of Interest: Geotechnical behavior and Geotechnical behavior and properties of soils. Slope stability, stabilization methods, and advanced geotechnical monitoring.



Luis Jordá

Research Professor

Ph.D. in Natural Resources, Energy, and Environmental Engineering, Polytechnic University of Madrid (UPM), Spain.

Areas of Interest: Drilling, civil tunnels, stability of natural and anthropogenic caves, and underground and open-pit mining.



Jaime Bojorque

Research Professor

Ph.D. in Engineering, Katholieke Universiteit, Belgium.

Areas of Interest: Study and numerical modeling of geology, geotechnics, and soil mechanics, slope stability, geotechnical risk, and soil improvement.



Felipe Ochoa

Research Professor

Ph.D. in Geotechnical Earthquake Engineering, Purdue University, USA.

Areas of Interest: Slope stability, characterization of tailings, soil studies, structural analysis, and numerical analysis.

PLAN OF AGREEMENTS

Italy

- Università di Chieti
- Università di Padova



Other agreements:

- CIGG (College of Civil Engineers of Guayas).

■ Professors in the Master's Program

OUR GRADUATES



M. Sc. Xavier Macías

General Manager of Infrastructure and Roads of Manabí - VIAL EP

Geotechnical engineering is one of the most interesting and important branches of civil engineering, and the Master's program allowed me to acquire knowledge that has been of great help in my professional career. The organization of the program and the quality of the faculty were among the things that most attracted me to the Master's program.

M. Sc. Tania Peralta

Risk Reduction Technician - Cuenca Municipal GAD

Geotechnics has always been my passion, and thanks to the Master's program, I have been able to delve deeper into this crucial discipline for Civil Engineering. The knowledge I gained has been invaluable for my professional development. The program's structure and the exceptional level of the faculty were decisive elements that led me to choose this Master's program.



M. Sc. Arián Briones

Geotechnical and Construction Laboratory Technician (ESPOL)

Studying in the Master's program in Geotechnics has been one of the best decisions of my professional life. It has allowed me to acquire essential knowledge and skills. The quality of the faculty and the organization of the program were key factors that motivated me to choose this Master's program.



SCHOLARSHIPS*



SCHOLARSHIP FOR TOP UNDERGRADUATE GRADUATES FROM ESPOL

Around **60%** off the total tuition fee.

ACADEMIC PERFORMANCE SCHOLARSHIP

Between **5%** and **10%** off the tuition installment.

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REFERRAL SCHOLARSHIP

5% off when a group of 2 people enrolls.

10% off when a group of 3 people enrolls.

CICG SCHOLARSHIP

10% For members of the College of Civil Engineers of Guayas, applied to the total tuition fee.

RESEARCH SCHOLARSHIP FOR SCIENTIFIC ARTICLE PUBLICATION

\$400 Applied to the final installment of the Master's tuition fee.

ESPOL ALUMNI SCHOLARSHIP

10% Applied to the total tuition fee.

*Aplican términos y condiciones



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Faculty of Earth Sciences Engineering

Program Coordinator :

M. Sc. Davide Besenzon Venegas



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