



UNIVERSITÀ DEGLI STUDI
DELLA BASILICATA

in cooperation with



Geosciences for Energy Transition

one-year II level Master course

To be protagonists
of an effective
energy transition!



The Master focuses on both renewable and fossil energies, and on the environmental compatibility of energy production

The **Department of Sciences** of the **University of Basilicata**, Italy, in cooperation with **Shell Italia E&P, Eni S.p.A., Total E&P Italia S.p.A.,** and **Confindustria Basilicata** promotes a one-year, II level master course in **Geosciences for Energy Transition**.

The Master course is designed for students willing to learn the most advanced technologies in the field of energy resources. The goal is to prepare young and motivated professionals for a future employment

in the energy industries and allied service companies.

The Master course covers a wide range of subjects in the geosciences, and provides a first-hand perspective on the transition from fossil to sustainable energy. By integrating the research-based expertise of the academic world with the rapidly evolving technologies and practices employed in the modern energy industry. Lectures will be taught by a selected staff of academic researchers and technicians of the supporting energy companies.

The Master course will start in **January 2022**.

Potential candidates should possess a second level degree in the 3+2 (Italian Laurea Magistrale) or 4+2 (Master level) systems in Geoscience, Geophysics, Natural Sciences, Civil and Environmental Engineering.

Participation fees are fixed at Euro 3.000.


A **scholarship** of Euro 2.500 will be provided to the top meritorious applicants.


TEACHING UNITS

web.unibas.it/geoenergytransition



(MD1) Introduction to reservoir geology: Porous reservoirs, Fractured reservoirs, Seismic interpretation, Petrophysics, Geostatistics, 3D reservoir modelling. **(MD2) Gas production and CO2 storage:** Hydrocarbon chemistry, Gas production and storage, CO2 storage in the underground. **(MD3) Energy transitions:** Geothermal energy, Solar energy, Wind energy. **(MD4) Environmental compatibility:** Environmental Hydrogeology, Subsidence processes and geofluid production, Control and remediation techniques in contaminated areas. **(MD5) Analysis of field analogues:** Overview on Italian plays, Field analogues of porous reservoirs, Field analogues of fractured reservoirs. **Seminars, Team Project, Tirocinio, Final test.**

 For further information, please visit the website
<https://web.unibas.it/geoenergytransition/>
<http://portale.unibas.it/site/home/didattica/master.html>

 For any other, please contact the Master coordinator
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