WHAT TO STUDY AT THE ETSIME?

OFICINA DE MOVILIDAD
ETSIME-UPM

1 - CATALOGUE OF COURSES AND PROGRAMMES TAUGHT IN ENGLISH AT UPM

2 - SUBJECTS TAUGHT IN ENGLISH AT ETSIME

The Master's Degree in Energy Engineering is carried out at the ETSII, but in collaboration with ETSIME professors, and its subjects are therefore considered to be taught by the ETSIME (within the 75% credits ETSIME of the minimum LA required).

3 - DEGREES IN THE ETSIME

- **BACHELOR DEGREES**

o Degree in Mining Technology Engineering

University degree with a professional profile focused on Mining Engineering, underground works and materials for industry, extraction and use of mineral and hydrological resources and environmental techniques.

o Degree in Mineral and Metallurgical Engineering and Raw Materials Metallurgy

University degree with a professional profile focused on Mining Engineering, specialising in mineral and metallurgy, as well as in fields related to the extraction and use of mineral resources and waste within a circular economy, production of new materials, recycling and environmental technologies.

o Degree in Geological Engineering

University degree with a profile focused on engineering activities linked to public works and the assessment and research of mineral and hydrogeological resources, including all related environmental aspects.

o Degree in Energy Resources, Fuels and Explosives Engineering

University degree with a professional profile focused on the production and use of conventional and renewable energy resources, the management and transport of electrical energy, the manufacture and production of explosives for the exploitation of resources.

o Degree in Energy Engineering

The Degree in Energy Engineering aims to bring together the best knowledge available at the Universidad Politécnica de Madrid in the subject matter, in order to offer the highest quality training possible and to meet the existing and foreseeable professional demand.

➢ MÁSTER DEGREES

○ MU in Mining Engineering

The aim is to train future mining engineers in the capacities and skills necessary for the use of calculation, simulation, design, analysis and auditing methodologies in the sectors of production, transformation, storage, transport and use of raw materials, energy and non-energy, with special emphasis on their aspects of efficiency and environmental impact. The programme provides the necessary skills to work professionally in companies associated with the profile of the mining engineer in accordance with the Specific Competences set out in Order CIN/310/2009.

○ MU in Sustainable Mining

The Master's Degree is aimed at Mining Engineers, Metallurgists, Geologists, Civil Engineers, Geomaticians, Environmental Engineers, etc., seeking training in knowledge and skills as professionals who will work in the area of mining, from exploration to operation and management.

○ MU in Soil and Groundwater Contamination

This Master's degree is aimed at graduates of Earth and environmental science and engineering programmes who wish to broaden and perfect their skills in prospecting, characterisation and treatment of contaminated sites.

○ MU in Geological Engineering

The Master's Degree includes 3 branches of intensification, depending on the focus the student wishes to give it or his or her needs:

1.- Management of the Physical Environment.
2.- Research and Management of Geological Resources.
3.- Underground Space Management.

○ MU in Energy Efficiency in Building, Industry and Transport

The Master's Degree in Energy Efficiency in Building, Industry and Transport is aimed at graduates with a scientific-technical profile, offering multidisciplinary and cutting-edge training in energy efficiency and with teaching staff from various schools and research centres of the UPM.

○ MU in Oil & Gas Engineering (MIP)

Contents of the program are as follows: Petroleum Geology: Geophysics; Drilling Engineering; Reservoir Engineering; Production and Completion Engineering; Surface Facilities Engineering; Shale Oil and Gas Reservoirs and Completions; Gas and CO2 Storage; Liquefied Natural Gas (LNG); Health, Safety and Environment; Petroleum Economics. There will also be hands-on experience at the Petrophysics Lab., together with a Field Trip.

4 - SUPPORT SERVICES, CULTURAL AND SOCIAL ACTIVITIES

- **The Programme Mentor/Buddy .**

  Your Quick Guide with the first steps to your arrival.

- **Student Delegation**
- **Sports at UPM and at ETSIME**
- **Other ETSIME associations**

If your university does not have an agreement with ETSIME or you wish to study a complete degree, you can do as a **visiting student:**

- If you are interested in partially studying at ETSIME without an agreement with your university:

Visiting students with foreign university studies

Visiting students with Spanish university studies

- If you want to do a full degree or master's degree at ETSIME:

https://minasyenergia.upm.es/estudiantes/futuros-estudiantes

https://www.upm.es/FuturosEstudiantes/Ingresar/Matriculacion