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## Master's Degree in Energy and Climate Change



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1

Energy and Climate Change are both interconnected disciplines and science and technology combines the most practical approach for solving new energy and climate change challenges.

2

The common semester of this Master's program offers a multidisciplinary approach and builds a solid base for graduates from a Science, Technology or Engineering degree.

3

This Master's program offers two Mentions: a Mention in Energy Engineering and a Mention in Climate Change. The devastating effects of Climate Change, including flood events, the rise of sea level, the loss of ecosystems as well as the monitoring and prediction of Earth's Climate are some concepts studied in the Mention in Climate Change.

4

The leading edge technology of energy, the engineering of power plants and the science and technology of CCS (Carbon capture and Storage) are some of the lines studied in the Mention in Energy Engineering.

5

This Master's program offers field trips worldwide to key geographical locations in other continents for the practical study of climate change, as well as industrial visits to energy engineering plants giving to students a broad view and perspective on energy and climate change-related issues.

**Dr. Juan Pedro Rodríguez-López**

Director of Master in Energy and Climate Change. School of Engineering

"If you like to learn actively, travelling all over the world discovering new and exciting locations, this is a Master program designed for you. This Master's program gives to students a comprehensive approach to energy and climate change challenges, combining scientific and engineering principles and applications".



**Duration**

1 academic year



**Campus**

Madrid-Princesa



**Language**

English



**Modality**

On-Campus



**Program**

Official master's degree

## MASTER'S DEGREE Master's programme

**1st semester 30 ECTS**

Geothermal energy: science, technology and engineering (Iceland field trip)	5
Science, engineering and technology of nuclear energy	5
A global perspective on Earth's climate evolution (Patagonia Field trip)	5
Engineering and science of solar and wind energies	5
Technology of hydroelectric, tidal and biomass energy	5
The Dynamic Earth	5

**2nd semester 30 ECTS**

**Mention in Energy Engineering**

Carbon capture and storage (CCS) (Norway Field trip)	5
Smart Grids	4
Leading edge technology in energy science and engineering	4
Advanced engineering of power plants	5

**Master's Thesis 12**

**Mention in Climate Change**

Research on recent climate change (Namibia Field Trip)	5
Geoengineering: science, ethics and regulations	4
Impact of climate change on human populations and infrastructures	5
Multidisciplinary approach to climate change; environmental impact, modelling and projections	4

**Master's Thesis 12**

**Total ECTS 60**

Energy and climate change are priorities for public and private international organizations. This MSc program offers a unique opportunity for students; learn from those who have already developed their careers in an international environment in the energy industry and academia. The best universities and companies collaborate with us combining scientific and technological approaches. Academic trips around the world will give you the opportunity to broaden your knowledge about global energy and climate related issues. Anyone interested in future issues related to energy and climate change and willing to promote innovative ideas to solve impending challenges will find a complete master's programme at the Nebrija University. We are moving forward, we are energy.

\*Location of field trips may change due to unexpected circumstances.