



## AN ERASMUS MUNDUS MASTER COURSE



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The ME3 programme received the financial support from the European Commission (EACEA) within the Erasmus Mundus programme for its editions from 2007-2009 until 2011-2013 and from the edition 2013-2015 until 2017-2019.

## TWO AWARDED DEGREES

All our students are graduate from UPM (ME3 European Joint Masters in Management and Engineering of Environment and Energy). The second degree depends on the study track:

- Track A: Master of Science with a major in Mechanical Engineering (KTH)
- Track B: Master in Mechanical Engineering Modelling (BME)
- Track C: Master of Science in Project Management for Environmental and Energy Engineering - PM3E (IMT Atlantique)

In addition, a joint certificate (Joint certificate of the ME3 International Master programme “European Joint Masters in Management and Engineering of Environment and Energy”) is issued to each student.

## KEYWORDS

Circular Economy, Eco-technologies, Energy Efficiency, Energy Engineering, Energy Systems, Environment, Environmental Process Engineering, Project Management, Renewables, Resource Management, Sustainability.

## INSTITUTIONS OFFERING THE MASTER

- IMT Atlantique: a leading French Higher Education and Research Institution in Engineering. IMT Atlantique (Nantes Campus) is part of the Institut Mines-Telecom.
- Budapest University of Technology and Economics (BME): the top higher education institution of Hungary, with a well-established international reputation.
- The Royal Institute of Technology (KTH): the largest, oldest and most International Technical University in Sweden.
- The Technical University of Madrid (UPM): the oldest and the largest Technical University in Spain.

## INDUSTRIAL AND RESEARCH COLLABORATIONS

Some examples of hosting institutions for master's thesis are:

- Alstom, Arcelor Mittal, Technip, Veolia, Séché Environnement, Volvo, Total, Schneider Electric, EDF, General Electrics...
- Indar Energy, IRIDRA, Zoetic Energy, MicroEnergy International, Endrava, S3D, Meteolien...
- United Nations, Aalto University, University of California, IRENA, Fraunhofer Institute, IKEM, IWMI, Tecnalia R&I...

## LANGUAGE OF TEACHING

100% English

## CONTEXT

Nowadays, environmental protection and sustainability within the chemical processing and energy industries are of major concerns. In a near future, experts predict that the energy demand will drastically increase, especially because of the spectacular industrial and economic growth of the emerging countries. In such a context, meeting the energy needs of society without serious adverse impacts on humanity and the environment is a world challenge. Whilst generating energy with minimal environmental impact falls within the broad scope of engineering, managing the demand for energy is in the realm of economics and social sciences. In most cases, these issues are interrelated and global solutions and strategies have to be found. The ME3 Masters is thus addressed to engineers and managers, who will work in Europe or in other regions of the world, to monitor complex social-technical systems related to Environment and Energy.

## PROGRAMME AND STUDY TRACKS

The 2-year programme (120 ECTS) allows students to study in up to three different European Countries.



