



Universidad
Zaragoza

EUREC Masters Starting Day

Sustainable Energy Management Specialization

About us



- The [University of Zaragoza](#) is the main center of technological innovation in the Ebro Valley and has great prestige among the group of both Spanish and European universities it has relations with.



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- In 2009, CIRCE -Centre of Research for Energy Resources and Consumption- and the University of Zaragoza constituted the [CIRCE Mixed University Research Institute](#)



Instituto Universitario de Investigación Mixto
CIRCE
Universidad Zaragoza

- From its headquarters at the [Rio Ebro Campus](#) next to the School of Engineering & Architecture and the Faculty of Economics and Business

About learning (I)

- Students will be able:
 - To provide viable and appropriate solutions to effectively manage resources, energy consumption and investment of organizations.
 - To understand and interpret the different variables involved in the energy plan, both economic and technological, and its environmental and social aspects.
 - To interpret and apply the main current regulations applicable in energy markets.
- With this **multidisciplinary approach**, students will be ready to **lead strategies** for the transition towards a **low carbon economy**.

About learning (II)

Subjects	ECTS	Learning outcomes
1. Socio-economic aspects of the energy	5	Understand the impacts of the energy on the environment, society and economy
2. Renewable energy markets	5	Understand the strategic, managerial, institutional, economic and social aspects of the renewable energy markets
3. Electricity and efficiency energy markets	5	Be able to describe how electricity prices, power system operation and investments depend on geographical, technical and economic factors
4. Systems and tools for energy management	10	Be able to evaluate the energy flows by means of auditing and develop energy management systems under the framework of the international standard 50001
5. Start up and management of ESCOs and projects	5	<ul style="list-style-type: none"> - Understand different techniques for investment analysis from economically and financially and apply solutions to specific problems - Understand business model for energy services and evaluate their propositions - Have an overview of legal procedures, financial and public support to help existing entrepreneurs

About learning (III)

- This specialization will start on February the 13th, 2019 and will run until May the 28th.
- Learning program: lectures, tutorials, technical visits
- Material resources:
 - Classrooms (School of Engineering & Architecture)
 - CIRCE's Laboratories
 - Virtual learning platform <https://moodle2.unizar.es/add/>
- Assessment:
 - Each subject will be evaluated independently with its test, subject work and/or additional work.
 - Students will be directly graded fail (not being evaluated) when its attendance is below the 70% minimum.

About learning (IV)

- Sessions are mainly scheduled in the afternoon. Each session is of 4 hours long aprox.
- Students are provided with all necessary teaching materials.
- Furthermore, conferences of experts specialized in different stages of the sustainable energy sectors are planned as well as visits to private firms or institutions related to the energy management.

About jobs perspectives

- Energy manager or energy specialist for a conventional company or one from the energy sector.
- Auditor and / or energy assessor for companies involved in energy efficiency projects, installation / integration of renewables, consumption optimization, etc.
- Entrepreneur in a new or newly created company, providing eco-innovative solutions from the energy perspective.
- Expert in energy management in any type of organization for effective resources management, consumption and investment, as well as the application of specific techniques for business in energy sector.

Practical information

- What should you know before coming to Spain? (VISA)
http://wzar.unizar.es/servicios/inter/faq_en.htm#11
- Information for international students:
http://wzar.unizar.es/servicios/inter/faq_en.htm
- Accommodation:
<https://www.unizar.es/information-institution/accommodation>



Practical information

- More information for foreign students

Sección de Relaciones Internacionales

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THANK YOU VERY MUCH FOR YOUR ATTENTION

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