

# University Expert in Materials for Thermal Energy Storage

## **COURSE**

2018-2019

## **PRE-REGISTRATION**

01/10/18 fins al 15/01/19

## **REGISTRATION PERIOD**

15/01/19 fins al 31/01/19

## **TUITION**

1200 €

The standard registration fee is 1200 €, and it applies to student from any European country. For non-European countries, the registration fee will be 2400 €.

## **ACADEMIC DEGREES EXPEDITION**

The current rate will be applied at the time of issue of the title

## **MAXIMUM OF STUDENTS**

0

## **TYPE**

Expert universitari

## **CATEGORY**

Energy

## **CREDITS**

20 ECTS

## **TRAINING MODALITY**

No presencial

## **COORDINATION**

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## **ORGANIZATION**

Centre de Formació Contínua UdL

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## PRESENTATION

This course is offered jointly by the University of Lleida and the University of Barcelona, and coordinated by the University of Lleida. It consists of a total of 20 ECTS devoted to the specific issues related to the materials that are used for thermal energy storage. Starting with a comprehensive introduction to the material science and engineering, the course offers knowledge related to material selection and characterisation, and other relevant issues such as corrosion. Aspects such as processing and modelling of composite materials in different applications are also addressed. The most used methods for testing and characterisation of different material properties are also presented, such as DSC, TGA, T-history and home-made techniques. Properties characterization at process level is finally addressed in this course.

This course is addressed to engineers, architects, chemists, physicist, etc. not only from academia, but also for those already working at industry, and who would like to deepen their knowledge on this topic. The lecturers of this course are academics and researchers from top European universities, all of them being part of the EU H2020 INPATH-TES project ([www.inpathtes.eu](http://www.inpathtes.eu)). The course is prepared to be 100% online, using high standard learning materials developed within the INPATH-TES online platform.

## SCHEDULE

### Specialisation on materials for TES

- Introduction to TES materials and their characterisation
- Development of TES composites
- Methods of characterisation and testing
- Process-related properties characterization
- **DATES AND HOURS**

There will be no schedule for teaching, but there will be a schedule dedicated to tutorship from February to May: 2 days per week in the morning (2 hours), 2 days per week in the afternoon (2 hours), and 1 Saturday per month in the morning.

## LECTURERS

Dr. Ana Inés Fernández

Dr. Camila Barreneche  
Dr. Diana Bajare  
Dr. Marilena de Simone  
Dr. Mercè Segarra  
Prof. Halime Paksoy

## **OTHER INFORMATION**

### **ADMISSION REQUIREMENTS**

The students need to have finished university degree on engineering, architecture, chemistry, physics, and other similar degrees. Students who have finished the first cycle of university studies or have accredited professional experience in technical areas may also enrol in this course, after approval by the academic committee.

### **TEACHING PERIOD**

**Fecha inicio 01/02/19 - Fecha finalización 31/05/19**

### **DATES AND HOURS**

Since this is an online course, there will be no schedule for teaching. There will be a schedule dedicated to tutorship: 2 days per week in the morning (2 hours), 2 days per week in the afternoon (2 hours), and 1 Saturday per month in the morning. Each lecturer will inform the students on his/her own schedule for tutorship.

### **COMPLEMENTARY INFORMATION**

[CV\\_lecturers\\_Expert\\_Materials.pdf](#)