

# University Expert on Heat Transfer

## **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

C/Jaume II, 71

Campus de Cappont

25001 - Lleida

Tlf: 973703383

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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 that deal with the relevant issues related to heat and mass transfer in TES systems. Both theoretical and modelling concepts are explained, which are relevant for the sizing of energy devices. The simulation of TES systems in building and industrial applications is also explained in detail.

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 heat transfer

- Multi-dimensional heat transfer-basic modes and analysis
- Mass transfer: basic modes and analysis
- Heat transfer with phase change: theoretical background and methods of solution
- Design and optimization of TES and component modelling
- Micro and nano-scale modelling of TES materials
- Simulation of TES systems
- **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

DE GRACIA CUESTA, Álvaro

Dr. Arjan Frijns

Dr. Frédéric Kuznik

Dr. Maciej Jaworski

Prof. Gennady Ziskind

Prof. Michel de Paepe

## **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 university cycle or have accredited professional experience in technical areas may also enrol in this course, after approval of 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\\_Heat\\_Transfer.pdf](#)