

## 意大利比萨大学 Green Vehicles 暑期项目报名

### 中国（行前准备课）

**DURATION**

2 days: 12 hours in the university in presence or via videoconference connected with the others universities that participate in the program.

**PERIOD**

Before the departure, as agreed with the Chinese Universities

**LOCATION**

Chinese University

**ACTIVITIES**

In the Chinese University: lectures, workshops, laboratories on web taught by Professors of Fondazione Monserrate's in cooperation with Monserrate Center of Research and Development, Milan, Italy.

### 意大利（专业课）

**DURATION**

2 weeks

**PERIOD**

15th of July 2019 – 26<sup>th</sup> of July 2019

**地点**

University of Pisa, Italy

**项目内容**

From Italy: 60 hours from Monday to Friday over 2 weeks. 6 hours/day lectures, workshops, laboratories, 1 field trip, after school tutorship at disposal.

**主题**

Green Vehicles

**课程**

**In China:** Studying and investigating Western Science History & breakthroughs. Science and Technology in western countries from 600 B.C. till today, how science changed culture, life and society. Italy as the heart of science and technology, past and present. Studying Green Vehicles in Italy today. Introduction to the summer school's contents, overall introduction to Italian Scientific Excellences in the area and historical, cultural and geographical basic knowledge about Italy and living in Italy

**In Italy:** Green Vehicles International Summer School for Bachelor/Master Degree students with the main scope of updating participants about the most recent advances in the topics of Green Vehicols.

- 1) Comparing vehicles - LCA-based approach (solo 2H).
- 2) Enhancing "greenness" of conventional vehicles:
  - Weight reduction and new materials
  - ease to recycle
  - cleaner engines
  - efficiency optimization
- 3) Battery electric vehicles.

- Basic architecture,
- simulations (especially to see the effect of regenerative braking under different situations and operating cycles).
- On-board energy storage
- 4) Hybrid -electric vehicles.
  - Architectures (series, parallel, axle-split, PSD-based, other)
  - energy management
  - simulations
- 5) Electronic components of conventional, electric and hybrid vehicles
  - Sensors and actuators
  - Electronic Control Units
    - Battery Management Systems
  - Vehicular networks (CAN, LIN, etc)

#### 学生名额

Max. 30 students will be accepted. The course will be held with a minimum of 15 enrolled students.  
1 Professor shall participate for free.

#### 语言

English

#### 学分

Every participant will receive a certificate issued by the university and Monserrate. The certificate will indicate the number of hours (pre-arrival preparation in China, lessons, didactic field trips, lectures, seminars, etc.) and the number of ECTS gained for the Summer School. ECTS credits could be converted into Chinese credits by the home university.

#### 费用

A tuition fee of € 2.500,00 will be charged for the 2weeks.

**The quote does include:**

**Didactic Activities:**

- Didactic Materials in English
- 1 Field trip

**Stay in Pisa and Toscana Region:**

- Practical assistance with Chinese speaking personnel to help students in their daily life in Pisa
- Accommodation and stay in Pisa in bed and breakfast residence, towels and sheets.

**General services:**

- Academic organization
- Pick up and drop off from and to Florence/Pisa Airport
- Welcome Touristic and practical guide

**The quote does not include:**

- Launch and dinner
- Visa and flight tickets
- Personal expenses
- All the other costs not mentioned above

**DIDACTIC ACTIVITIES**

The Green Vehicles Summer School will be organized in five teaching days with keynote lectures (during the morning) and laboratory sessions (during the afternoon). Some people from invited industry will present their advanced applications in the field of Green Vehicles.

校内联系人

国际交流合作处 彭姝 68911223 [pengshu@bit.edu.cn](mailto:pengshu@bit.edu.cn) [pengshubit@163.com](mailto:pengshubit@163.com)