

3
ECTS CREDITS

BLENDED INTENSIVE PROGRAMME

Integrated ENERGY SYSTEMS

6 - 30 May 2024

Online

24 - 28 June 2024

Santander

SPAIN



CHALLENGES FOR A SUSTAINABLE WORLD - SUMMER SCHOOL

Multidisciplinary approach | Lectures | Team work | Cultural activities

APPLICATIONS

By 21 March

ADMISSIONS

10 April

ENROLMENT

10 - 25 April

COURSE

6 May - 28 June

PRE-REQUISITES

- EUNICE student (PhD, Master or last year of Bachelor)
- Specialised in any engineering related to the topics
- English B2

HOW TO APPLY & ENROL

- Incoming students: contact your International Relations Office (application and [Erasmus+ funding](#)).
- UC students: apply and register through UC Virtual Campus. 11-25 April 2024.

INTEGRATED ENERGY SYSTEMS

Challenges for a Sustainable World

SUMMER SCHOOL

PROGRAMME

DIRECTOR Marcelo G. Simões, University of Vaasa - **SECRETARY** Gema Pérez, University of Cantabria

Online part: **Moodle platform** | On-site part: **Magdalena Palace (Santander)**

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| Module 1 OPTIMAL OPERATION AND SIZING OF RENEWABLE ENERGY COMMUNITIES | • | Prof. Zacharie De Grève University of Mons |
| Module 2 ADEQUACY STUDIES IN MODERN POWER SYSTEMS | • | Prof. François Vallée University of Mons |
| Module 3 DIGITAL CONTROL FOR POWER ELECTRONICS | • | Prof. Marcelo G. Simões University of Vaasa |
| Module 4 ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN POWER ELECTRONICS AND POWER SYSTEMS | • | Profs. Marcelo G. Simões and Mohammed Elmusrati University of Vaasa |
| Module 5 GRID-INTEGRATION OF RENEWABLE ENERGIES | • | Profs. Raquel Martínez and Pablo B. Castro University of Cantabria |
| Module 6 POWER QUALITY IMPACT OF RENEWABLES IN POWER SYSTEMS | • | Profs. Mario Mañana and Alberto Laso University of Cantabria |
| Module 7 ALTERNATIVE FUELS | • | Prof. Rafał Ślęfarski Poznan University of Technology |
| Module 8 GREEN GRASS TECHNOLOGIES IN INTEGRATED ENERGY SYSTEMS | • | Prof. Paweł Czyżewski Poznan University of Technology |
| Module 9 RECYCLING MATERIALS FROM ENERGY SYSTEMS | • | Prof. Elhadj Dogheche Université Polytechnique Hauts-de-France |
| Module 10 MATERIALS, PROCESSES AND PERFORMANCES | • | Profs. Denis Remiens, Marie Lasgorceix and Mohamed Rguiti Université Polytechnique Hauts-de-France |

