



The Foundations on Smart Grids ***S-SC-1C1***

STARTING YEAR 2024/25

DATES: October 9th - February 17th (approx)

Language: English

Limited Number of Students

Content: the most relevant aspects of electrical systems supporting cities

Technical background in Energy Engineering, Industrial Technology Engineering, Electronic Engineering and Robotics, Electric Engineering, Aerospace Engineering, Civil or Building Engineering are recommended.

Courses (4.5 ECTS each):

- Modern Electrical Distribution Networks
- Energy Conversion Systems in Smart Cities
- Analysis of Active Distribution Networks
- Analysis of Power Conversions Systems
- Real-Time monitoring of Smart Grids
- Optimal Operation of Smart Grids
- Green (3 ECTS)

More information:

<https://etsi.us.es/en/international-mobility/international-students>



Intelligence for Mobility and Transport in Smart Cities **S-SC-1C2-A**

STARTING YEAR 2024/25

DATES: February 15th – June 15th (approx)

Language: English

Limited Number of Students

Content: develop the “smart” aspect of the city focused on traffic management, logistics and mobility.

Technical background in Energy Engineering, Industrial Technology Engineering, Electronic Engineering and Robotics, Electric Engineering, Aerospace Engineering, Civil or Building Engineering are recommended.

Courses (4.5 ECTS each):

- IT infrastructure for Smartcities
- Facility Automation Systems
- Artificial Intelligence for Smart Cities
- Digital Twins
- Traffic Management and Transport Planning in Smart Cities
- City Logistics: Transport and Mobility
- New Autonomous Air and Ground Mobility Concepts
- Green (3 ECTS)

More information:

<https://etsi.us.es/en/international-mobility/international-students>



Intelligence for Energy Efficiency and Buildings **S-SC-1C2-B**

STARTING YEAR 2024/25

DATES: February 15th – June 15th (approx)

Language: English

Limited Number of Students

Content: develop the “smart” aspect of the city focused on energy efficiency and intelligent buildings.

Technical background in Energy Engineering, Industrial Technology Engineering, Electronic Engineering and Robotics, Electric Engineering, Aerospace Engineering, Civil or Building Engineering are recommended.

Courses (4.5 ECTS each):

- IT infrastructure for Smartcities
- Facility Automation Systems
- Artificial Intelligence for Smart Cities
- Digital Twins
- Renewable Energy Systems (RES) in Buildings
- Passive Buildings and Physics
- Active Systems and Energy Conservation Measures (ECM) in Buildings
- Green (3 ECTS)

More information:



<https://etsi.us.es/en/international-mobility/international-students>