



April 2024

# Newsletter



# ECOLUTION

## AIMS

### Pioneering the Future of Smart Sustainability

The Masters course on smart sustainability solutions (ECOLUTION) project aims to develop advanced interactive certified MSc course related to applications that will train individuals with the necessary skills & knowledge to work in the rising “Smart Environmental Sustainability” industry.



Co-funded by  
the European Union

**Erasmus+ Programme:**

Alliances for Education and Enterprises **ECOLUTION** – mastErs COurse on smart sustainability soLUTIONs  
Project Number: **101140050 — ECOLUTION — ERASMUS-EDU-2023-PI-ALL-INNO**

**Funded by the European Union.** Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.



# At a Glance

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An ERASMUS+ Programme

Knowledge Alliances **ECOLUTION**

Masters Course on **Smart Sustainability Solutions**

PROJECT NUMBER: 621568-EPP-1-12020-1-PT-EPPKA2-KA

DURATION: **36 months**

COORDINATOR: The Polytechnic Institute of Coimbra (IPC)

## Aims

- An ERASMUS+ Programme
- Knowledge Alliances ECOLUTION -
- Masters Course on smart sustainability
- solutions
- PROJECT NUMBER: 621568-EPP-1-12020-
- 1-PT-EPPKA2-KA
- DURATION: 36 months
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- The Polytechnic Institute of Coimbra (IPC)
- A plethora of “smart” devices (applicable in
- vessels, vehicles, buildings, factories etc)
- are beginning to infiltrate every level of our
- everyday lives. These form the Internet of
- Things (IoT), a network of physical devices
- that are embedded with electronics,
- software, sensors and actuators to allow
- interconnectivity between them and to
- exchange data without (or with minimal)
- human intervention. The main aim of
- ECOLUTION is to uplift IoT in the formal
- education of prospective candidates
- dealing with agricultural, environmental
- and engineering businesses in Europe.





# Objectives

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The sustainability IoT infrastructure transformation is penetrating fast the socio-ecological domain. It is expected that the total addressable market for smart environmental sustainability systems will reach \$28.9 billion by 2024. People with no educational background related to Environmental Sustainability IoT systems are currently designing, developing, installing, servicing and maintaining the systems that have and will enter the market. In other words, there is a global shortage of trained engineers and technicians to cater and safely handle this new technology, especially in the European Union.



# Course Structure

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The masters Course on smart sustainability solutions (ECOLUTION) project aims to develop advanced interactive MSc courses related to Environmental Sustainability IoT Engineering that will train individuals with the necessary skills and knowledge to work in the rising “Smart Environmental Sustainability” industry.

The courses are also formulated to stimulate transversal competences such as the increased sense of initiative and entrepreneurship. The courses are designed to follow the European Credit Transfer and Accumulation System (ECTS) credit standards for certification recognition across the EU.

The innovative curriculum is comprised by interactive teaching methods & partnerships with expert academic & organisations to give to the students a solid background for starting a fruitful career in the industry. The program duration is 18 months, plus a 1-month (on the job) experience. In addition, in 2 mobility periods, the students & educators from one university will travel to the other and vice-versa, to participate in the large-scale laboratories, whereas a 3rd period is reserved for on-the-job training.



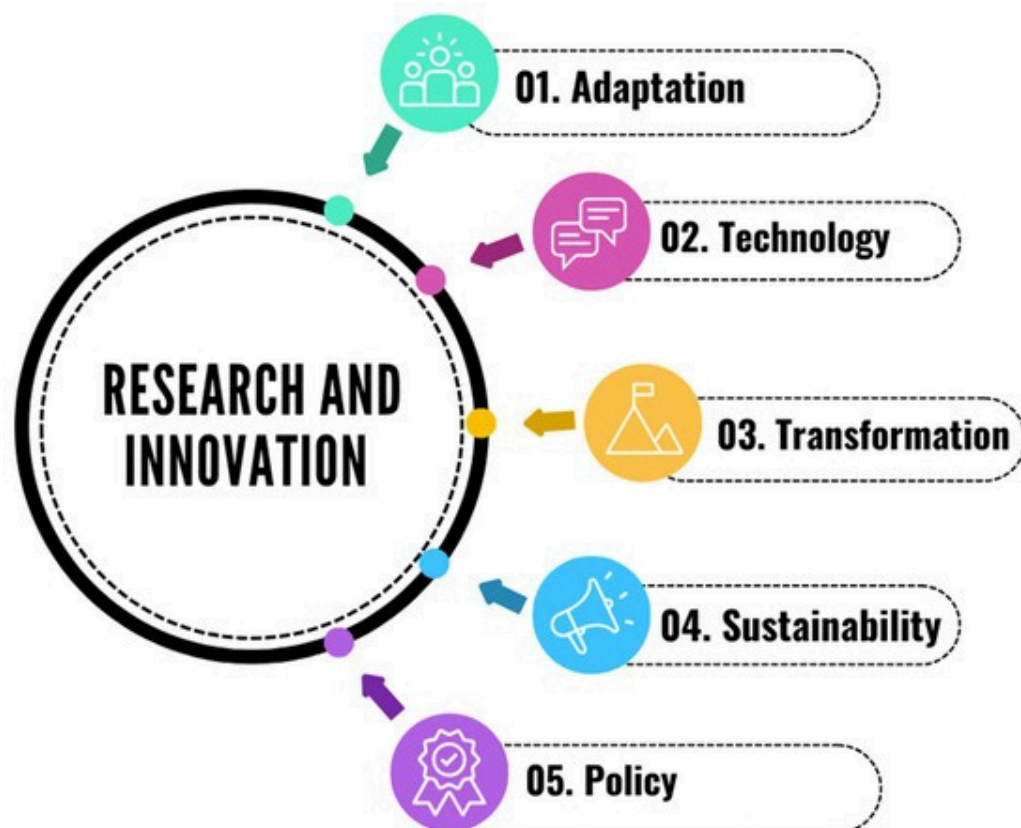
# Participants



The program will be open for participation for anyone with environmental sustainability, electronic, electrical, computer or mechanical technical background, such as university students that have completed a suitable bachelor's degree or professionals with equivalent or higher (5 years minimum) working experience Program Start: in procedure to be updated to year 2025.

**Application Deadline:** in procedure to be updated to year 2025

Students wishing to apply to the Smart Environmental Sustainability MSc can do so using the short & easy online application form ([www.ecolutionmsc.eu/application-form/](http://www.ecolutionmsc.eu/application-form/)). After submitting an application, a counselor will review the details and be in contact if needed to complete the full application.





## CONSORTIUM

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## PROJECT COORDINATOR

**Prof. Hanel Martin – Vice Dean for international relations, head of department, Department of Water Resources and Environmental Modelling, Faculty of Environmental Sciences, Czech University of Life Sciences**

<http://www.fzp.czu.cz/HCV> | <http://www.fzp.czu.cz/KVHEM>



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