



1st session of the pilot-project: H₂O₂Octógono Azul

Escola Secundária Alves Martins (ESAM) / Instituto Politécnico de Viseu (IPV), 6/2/2018

1st session with students and teachers of the pilot-project H₂O₂Octógono Azul (from EduCO₂cean) at IPV

Pilot-project: H₂O₂Octógono Azul

Lab session at Instituto Politécnico de Viseu (IPV)



Pilot-project H₂O₂Octógono Azul

This pilot-project's aim is to allow the students to have direct contact to the methods and techniques of scientific investigation and, at the same time, make them conscious and motivate them to raise general awareness to the environmental issues that are related to the quality of the water in streams and rivers, which is the water that flows into the sea. To reach this goal, scientific and technical support is essential and it will come from *ESTV-IPV* professors of the Department of the Environment.

This is a summary of the project:

"12th graders are directly involved in the development of this project whose aim is to study the river water quality of the *Pavia* along its course through the city of *Viseu*. The methodology to be used is the same as the one adopted by the investigators of this city's *POLIS Programme* when the quality of the water was being monitored.

After a first awareness-raising and training session where the students are also given instructions about the practical work to be accomplished, there will be three different monitoring campaigns in three distinct periods of time along the following months. In the field, the students will carry out different procedures on the sampling sites including meteorological measurements and the collection of data. Analyses will be undertaken, both in the water environment and at the lab, and there will be a selection of the main water quality parameters, correlated with the outbreaks of pollution of the river that tend to affect the river water quality of the *Pavia*. After the conventional treatment of the results and the assessment of the levels of pollution, an innovative method, very visual and easy to perceive by the common citizen, will be used to explain their classification. For instance, when the analysed stretch of the river presents no evidence of pollution, it will be awarded a blue octagon (the octagon is the symbol of *Viseu*), if, on the other hand, the river shows heavy signs of pollution, it will be given a red octagon, as if it were a stop sign.

This pilot-project *H2Océano Azul* (Blue H2Océano), and all the work carried out, will be presented publicly to the student community and *Viseu's* citizens, whereby audio-visual and multimedia aids are to be set up for the occasion, over and above drawing up analytical reports." (Excerpt of the pilot-project – Professor Pedro Baila Antunes – *ESTV-IPV*). This project started on 2 February 2018 with a lecture at the *IPV* which was attended by students and teachers from *ESAM's* "EduCO₂cean team" and promoted by Professor Pedro Baila Antunes, Professor Isabel Brás, the partner team from *IPV* and Professor Luís Teixeira de Lemos, the Director of the Department of the Environment of *ESTV – IPV*.

For further information, visit this FB page: [Educo2cean ESAM](#)



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