





Multi-Spectral Imaging and System Analysis tools for smart water management

Sentinel-2 MSI for water quality monitoring 8th Edition | February - March, 2024, Beja, Portugal



What - Erasmus Blended Intensive Programme

3 weeks @ Polytechnic Institute of Beja, Portugal + 2 weeks online

For whom?

Students with background in ecology, environmental sciences, aquatic systems, water management | last year of Bachelor or attending a master course | International teams of 4-5 students

When and Where?

Physical Mobility in Beja, Portugal: from 12th February until 1st March 2024 (3 weeks)

On line learnig activities: from 4th until 15th March (2 weeks)

To do what?

To use Sentinel-2 MSI produtes to create maps of relevant water quality parameters on a cloud computing platform

To identify problems with remote sensing tools and plan a field trip to the hot spots for *in situ* measurements **@ Alqueva Lake**

To come up with a solution to the problem and presented to stakeholders

How?

This is a 5 weeks full time programme with workshops, lectures from international researchers, team work, field trips, and weekly short presentations | 8 ECTS







Program summary

Week 1 12 th - 16 th February	 Visit to <u>EDIA</u> - Empresa de Desenvolvimento e Infra-estruturas do Alqueva, S. A. Boat trip to Alqueva Workshops: intercultural sensitivity, the alqueva system Team's presentation: project plan
Week 2 19 th - 23 th February	 Guest lecture by the Portuguese Space Agency Workshops: remote sensing, Sentinel-2 products Team's presentations: hot spots & field trip planning Cultural daytrip
Week 3 26 th Feb 1 st March	 Field trip to Alqueva: in situ measurements Guest lectures: ecology and aquatic systems, cyano blooms Team's presentation: problem description Farewell dinner
Week 4 4 th - 8 th March (online)	 Guest lectures: water bodies rehabilitation, buffer zones Coach meetings Team work on solution Team's presentations on proposed solutions
Week 5 11 th - 15 th March (online)	 Guest lectures: environmental impac analysis (EIA) Team work on EIA Team's presentations on EIA & Advice to EDIA Evaluation and programme closing

Check the news on our previous editions of the programme at **The European**Space Agency's "Sentinel Success Stories". 2020 & 2021

APPLICATION: Use this-form to apply | Deadline: 20 November https://forms.gle/k6VRZa2qEHPPkTVC8

MOBILITY GRANT AND FINANCIAL SUPPORT: Contact the international of your home institution t get more info on how to apply for a Mobility Grant to attend this BIP

Need more information? nuno.pereira@ipbeja.pt