



**SHORT
TRAINING
DAYS 2024**

**Mastering Microplastics and Related Chemicals:
2-Day Training in Extraction and Analysis
Techniques for Water, Soil and Human Samples**

7-8 May 2024

**Instituto Superior de Engenharia do Porto (ISEP)
GRAQ
REQUIMTE/LAQV – Polo ISEP**

PORTUGAL

TRAINERS

OUR TEAM



**VIRGÍNIA CRUZ
FERNANDES**
Coordinator


MICROPLASTICS
Soils Waters
Biological samples Analytical techniques



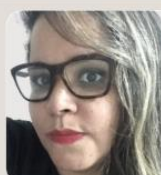
SARA SOUSA
Trainer



DIANA REDE
Trainer



SÍLVIA MARTINHO
Trainer



ADRIANA VIEIRA
Trainer

DAY 1 – 7 May 2024

10:00 | **Registration and welcome session**

SESSION 1

10:15 | **Introduction to microplastics and related chemicals: types, sources, impacts, and methods**

Virgínia Cruz Fernandes, REQUIMTE/LAQV, Instituto Superior de Engenharia do Porto, Instituto Politécnico do Porto

10:45 | **Microplastics in soils**

Diana Rede, REQUIMTE/LAQV, Instituto Superior de Engenharia do Porto, Instituto Politécnico do Porto

Coffee break

11:15 | **Microplastics in waters**

Sílvia Martinho, REQUIMTE/LAQV, Instituto Superior de Engenharia do Porto, Instituto Politécnico do Porto

11:30 | **Microplastic contact angle analysis**

Virgínia Cruz Fernandes¹ / Adriana Vieira dos Santos^{1,2}, ¹REQUIMTE/LAQV, Instituto Superior de Engenharia do Porto, Instituto Politécnico do Porto e ²Instituto Federal de Educação, Ciência e Tecnologia da Bahia

11:45 | **Plastic additives in biological samples**

Sara Sousa, REQUIMTE/LAQV, Instituto Superior de Engenharia do Porto, Instituto Politécnico do Porto

12:00 | Visit to the Chemical Engineering Department of ISEP

Lunch

SESSION 2

14:30 – 18:00 | **Hands-on workshop: microplastics and plastic additives extraction from water, soil, and human samples | Laboratory protocols**

1. Microplastics in soils,
2. Microplastics in waters
3. Plastic Additives in biological samples

Coffee break

Networking Session

DAY 2 – 8 May 2024

SESSION 3

9:30 – 13:00 | **Hands-on workshop: techniques for analyzing microplastics and plastic additives: gas chromatography, Raman microspectroscopy, and contact angle analysis**

- Microscopy and Raman microspectroscopy
- Gas Chromatography analysis

Lunch

- 14:30 – 15:30 | Contact Angle Analysis

SESSION 4

15:45 – 16:30 | **Q&A session and closing remarks**

Coffee break