

The International Summer School for Doctoral Students

“Modern and Sustainable Chemical Risk Assessment and Mitigation” (PhD-RISK 2026)

11-15 May 2026
University of Gdańsk, Poland

Programme at a Glance

A five-day intensive programme (40 hours) combining lectures, hands-on workshops, field activities, and innovative learning formats. All activities are conducted in English at the Faculty of Chemistry, University of Gdańsk (WCH UG).

Day I – Foundations of Chemical Risk Assessment

10⁰⁰ – 14¹⁵



- Inaugural lecture by an invited international expert
- Two thematic lectures on modern and sustainable chemical risk assessment
- Integration workshop: Get to Know / Speed Dating
- Welcome meeting and city centre integration event

Day II – Experimental Approaches to Exposure and Hazard Assessment

9⁰⁰ – 18⁴⁵



- Two thematic lectures
- Field sampling activities
- Laboratory workshops in small groups (20 participants):
 - Exposure and hazard assessment of chemicals
 - Fast and innovative monitoring techniques (• Arduino-based systems)

Day III – AI and Machine Learning in Risk Prediction

9⁰⁰ – 17¹⁵



- Two thematic lectures
- Computer workshops in small groups:
 - AI applications, possibilities and limitations
 - Machine learning: strengths, weaknesses and ethical aspects
- Evening cultural event: “Cinematic Poland”

Day IV – Sustainable Technologies for Chemical Risk Mitigation

9⁰⁰ – 17¹⁵



- Two thematic lectures
- Practical workshops
 - “Clear Water Mission”-educational Escape Room on wastewater treatment
 - Advanced Oxidation Processes (AOP) for water purification



Day V – Summary and Certification

9⁰⁰ – 13³⁰



- Scientific debate
- Final exam
- Closing session, evaluation surveys and distribution of micro-certificates