

	Implementation schedule	Physically/ Remotely	Workload (hours)	Learning outcomes
Activity 1 Scientific orientation and analytical concept	Introduction to high-carbon Andosol-type soils, P dynamics and analytical challenges; overview of sample material, research questions, laboratory safety and quality-control concept.	Physically	5	Understanding of soil-specific constraints, link soil properties to methodological choices and work safely in the laboratory.
Activity 2 Sample preparation and re-incubation	Sample inventory, homogenization sieving and moisture adjustment; controlled re-incubation of dried soil samples.	Physically	10	Knowledge on preparing, and pre-treat high-carbon soil samples.
Activity 3 Enzyme analysis	Adapted phosphomonoesterase assay for high-carbon soils, including controls, calibration, incubation conditions and handling of colour interference.	Physically	25	Applying a modified enzyme protocol and assess the influence of matrix effects on analytical interpretation.
Activity 4 Modified P fractionation	Modified Hedley P fractionation and complementary soil indicators; extraction sequence, filtrate handling, measurement, calculations and interpretation of P pools.	Physically	25	Perform and interpret adapted laboratory approaches for P pools in high-carbon pools.
Activity 5 Data evaluation and scientific communication	Data cleaning, visualization and basic statistical interpretation; integration with targeted literature evidence.	Physically	10	Analyze and contextualize laboratory results and communicate findings in written and oral scientific formats.

Activity 6 Reporting	Applied methods and gathered information is used to write a short scientific report.	Remotely	15	Enhance proficiency in written communication within particular field, utilizing specialized terminology.
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