

	Implementation schedule	Physically/ remotely	Contact hours	Autonomous work for students (max hours)	Learning outcomes
Activity 1 18/11/2025	Introduction to secondary metabolites	Remotely	3	5	Clarify the various families of secondary metabolites, understand their importance for human health
Activity 2 24/11/2025	Basic laboratory training. Preparation of the extracts	Physically	7	4	Learn safety tools, how to prepare extracts
Activity 3 25/11/2025	Preparation of the extracts (optimization of the extraction process)	Physically	6	4	Prepare extracts
Activity 4 26/11/2025	Estimation of total phenolic content	Physically	8	4	Experience on Folin ciocalteu method
Activity 5 27/11/2025	Estimation of total flavonoid content	Physically	6	3	Experience on aluminum chloride method
Activity 6 28/11/2025	Evaluation of the antioxidant activity (DPPH assay)	Physically	6	3	Experience on DPPH assay

Activity 7 1/12/2025	Evaluation of antioxidant activity (ABTS assay)	Physically	6	3	Experience on ABTS assay
Activity 8 2/12/2025	Introduction to analytical techniques	Remotely	3	6	Understand the importance of choosing the correct analytical technique
Activity 9 3/12/2025	Chemical characterization of the extract	Physically	10	6	Experience in HPLC technique
Activity 10 7/01/2026	Discussion of results and literature search	Remotely	3	10	Learn how to choose the right scientific sources and evaluate their experimental data
Activity 11	Preparation of results and reports for the annual student's conference	Remotely	3	10	Learn how to present scientific data using professional diagrams and correct terminology
Total Hours			61	58	119