

Посветени на хуманността

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LAB SCHEDULE

Analytical Chemistry, Part I, II semester, Academic Year 2025/2026

№	Topics
1. 09.02. – 13.02.26	Introduction to Analytical Chemistry. Qualitative analysis. General principles and theory. Basic tools and operations.
2. 16.02. – 20.02.26	First analytical group of cations – Silver (I), Lead (II), and Mercury (I).
3. 23.02. – 27.02.26	Identification of group II cations.
4. 02.03. – 06.03.26	Identification of group III, group IV and group V cations.
5. 09.03. – 13.03.26	Systematic qualitative analysis. Separation and identification of group I cations.
6. 16.03. – 20.03.26	Systematic qualitative analysis of selected cations. Identification of selected anions.
7. 23.03. – 27.03.26	Volumetric (titrimetric) analysis. Principles, classification. Volumetric glassware, Basic techniques. Calculations.
8. 30.03. – 03.04.26	Acid-base titrations. Acidimetry. Preparation and standardization of hydrochloric acid solution.
9. 14.04 – 17.04.26	Acid-base titrations. Acidimetry. Titration of a mixture of sodium hydroxide and sodium carbonate.
10. 20.04. – 24.04.26	Acid-base titrations. Alkalimetry. Preparation and standardization of sodium hydroxide solution.
11. 27.04. – 01.05.26	Acid-base titrations. Alkalimetry. Determination of acetylsalicylic acid purity.
12. 04.05. – 08.05.26	Acid-base titrations. Alkalimetry. Analysis of commercial Antacid tablets.
13. 11.05. – 15.05.26	Precipitation titrations. Argentometry. Preparation of silver nitrate solution. Determination of chlorides by Mohr's method.
14. 18.05. – 22.05.26	Precipitation titrations. Argentometry. Determination of potassium bromide.
15. 25.05. – 29.05.26	Colloquium.

February 3, 2026

Lecturer:

/Assoc.Prof. Z. Velkova, PhD/

Head of Department:

/Prof. K. Gavazov, PhD/

