Schedule of quantitative analytical chemistry for second-year pharmacy students 1st semester in 2024/2025 academic year LABORATORY PRACTICES

1st semester in 2024/2025 academic year LABORATORY PRACTICES 02 (EP/2)		
Week	Торіс	Task
1. (IX. 3.)	Introduction	 Laboratory bench and equipments inventorys; Safety and order in the laboratory; The schedule of the semester; Practical and theoretical requirements in the semester;
	Chelatometry	Chelatometry: Introduction;Determination of bismuth ions
2. (IX. 11.)	Chelatometry	- Determination of calcium and magnesium ions in the presence of each other (in mineral water)
3. (IX. 17.)	Chelatometry	 Determination of aluminum ions in "Aluminium aceticum tartaricum solute"; Determination of copper and zinc ions in the presence of each other (1/2 group) Determination of mercury and zinc ions in the presence of each other (1/2 group)
4. (IX. 24.)	Argentometry	- Determination of bromide ions by by Volhard's and Fajans' methods
5. (X. 1.)	Permangnometry	 Permanganometric determination of hydrogen peroxide content in tablet "Hyperol"; Determination of the total iron content by Zimmermann-Reinhardt method (1/2 group); Permanganometric determination of bromide ions by Winkler'method (1/2 group);
6. (X. 8.)	Chromatometry Bromatometry	 Determination of Mohr salt with chromatometric method; Bromatometric determination of azophene (Phenazonum); Bromatometric determination of ascorbic acid (Vitamin C) in tablets (e.g.VitC, Rutascorbin, Béres C)
6. (X. 10.)		- Test I.
7. (X. 15.)	Bromatometry / Iodometry	 Determination of acetyl salicylic acid content in tablets (e.g. Aspirin, Kalmopyrin,) by Koppeschaar's method; Standardization of Na₂S₂O₃ titrant
8. (X. 22.)	Iodometry	Iodometric determination of copper (II)-ions;Determination of iodide by Winkler's method
8. (X. 24.)		- Retake I.
9. (X. 29.)	Chromatography	 - HPLC measurement (theory, separation of medicine sample); - Ion chromatographic measurement (theory, determination of anions in Evian water sample)
9. (XI. 6. 5:00 -7:00 pm)		"EXTRA LAB" - Supplements
10. (XI. 5.)	Potentiometry	 Potentiometric titration of acetic acid; Direct potentiometric determination of fluoride content in tooth paste; Potentiometric titration of Cl⁻ and l⁻ in the presence of each other
11.	Spectrofluorescency	- Determination of quinine in "Tonic";
(XI. 12.)	Spectrophotometry	- Spectrophotometric determination of phosphate content in egg shell
12. (XI. 19.)	Conductometry	 Conductometric determination of Betaine hydrochloride; Conductometric determination of acid contents in red wine; Water Determination hydrochloride Timetion
10	Coulometry	- Water Determination by Karl Fischer Titration
13. (XI. 26.)	Iodometria	 Determination of mannitol by Malaprade's reaction with periodate Supplements
13. (XI. 28.)		- Test II.
14. (XII. 3.)	Supplements Closing	- Supplements - Closing
14. (XII. 5.)		- Retake II.