

**Medical University of Plovdiv**

**Department of Chemical Sciences**

**LAB SCHEDULE**

Analytical Chemistry, Part II

Group 13

Winter Term

Academic Year 2021 – 2022

<b>DATE</b>	<b>Experiment</b>	<b>TOPIC/ACTIVITY</b>
-	1.	Preparation and Standardisation of EDTA Solution.
20.09.2021	2.	Determination of Copper Ions by EDTA Titration
27.09.2021	3.	Determination of Total Water Hardness
04.10.2021	4.	Oxidation-Reduction Titrations. Permanganometry.
11.10.2021	5.	Permanganometry. Hydrogen Peroxide Analysis
18.10.2021	6.	Permanganometry. Estimation of Iron(II)
25.10.2021	7.	Iodometry. Preparation and Standardisation of Thiosulfate and Iodine Solutions
01.11.2021	8.	Iodimetric Determination of Metamizole Sodium. Determination of Ascorbic Acid
08.11.2021	9.	Determination of Glucose
15.11.2021	10.	Potentiometric Titration. Determination of pK <sub>a</sub> Value of Acetic Acid.
22.11.2021	11.	Potentiometric Titration. Determination of Phosphoric Acid Content in Soft Drinks
29.11.2021	12.	Spectrophotometry. Absorption Spectrum of Vitamin B <sub>12</sub> . Determination of Vitamin B <sub>12</sub> . Determination of Salicylic Acid
06.12.2021	13.	Spectrophotometric Determination of K <sub>a</sub> of an Acid-Base Indicator. Interpreting an Infra-Red Spectrum.
13.12.2021	14.	Separation Techniques. Extraction. Determination of Hydroxyzine Hydrochloride.
20.12.2021	15.	Chromatography. Determination of a Distribution Coefficient.

Approved by: \_\_\_\_\_

Prepared by: \_\_\_\_\_

Assoc. Prof. K Gavazov,  
Head of the Chemical Sciences Department

Chief Ass. Prof. G. Kirova

09.09.21