

Weeks / Date		Lecture On Tuesday 8:00 -9:30 7. Seminar Room	Practice On Friday 8:00 -11.00			
				Instructor	Workplace	Date
1.	29.01	Introduction to Instrumental Analysis Prof. Ferenc Kilár	Introduction	Ibolya Kiss Balázs Csóka	SzKK B102	01.02.
2.	05.02.	Electroanalytical Chemistry: Potentiometric Methods, Conductometric Methods Prof. Ferenc Kilár	Potentiometric Methods Direct potentiometry: Measurement of solution's pH by direct potentiometry	Balázs Csóka	SzKK B102	08.02.
3.	12.02.	Introduction to Absorption Spectroscopy: Atomic spectroscopy Prof. Ferenc Kilár	Potentiometric Methods Acid – Base Titration: Titration of NaOH solution using potentiometric end-point detection	Balázs Csóka	SzKK B102	15.02.
4.	19.02.	Ultraviolet(UV) – Visible(VIS) and Infrared(IR) Spectrophotometry Prof. Ferenc Kilár	Conductometric Methods: Titration of NaOH solution using conductometric end-point detection Determination of the temporary hardness of tap-water by conductometry	Balázs Csóka	SzKK B102	22.02.
5.	26.02.	Separation Technique / Chromatographic Theory Prof. Ferenc Kilár	Ultraviolet(UV) – Visible(VIS) Spectrophotometry: Determination of NiSO4 concentration by spectrophotometry using standard additon method Methylenblue concentration measurement by spectrophotometry	Balázs Csóka	SzKK B102	01.03.
6.	05.03.	Gas Chromatography (GC) Prof. Ferenc Kilár	Atomic spectrophotometry Concentration determination of potassium ion (K ⁺) solution by atomic emission Spectroscopy Concentration determination of copper ion (Cu ²⁺) solution with atomic absorption spectroscopy	Tímea Pernyeszi	TTK Dep. of Analytical Chemistry C111	08.03
7.	12.03.	Liquid Chromatography / High - Performance Liquid Chromatography (HPLC) Prof. Attila Felinger	National Holiday			15.03.
8.	19.03.	TEST 1. Electrophoresis / Capillary Electrophoresis (CE) Prof. Ferenc Kilár	Gas chromatography (GC): Gas chromatographic determination of normal alkanes	Viktória Poór	AOK Institute of Bioanalysis	22.03.

	26.03.	Spring holiday				29.03
9.	02.04.	Mass Spectrometry (MS) Dr. Anikó Kilár	High - Performance Liquid Chromatography (HPLC): Quantitative analysis of active substance of Saridon analgetic	Nándor Lambert	TTK Dep. of Analytical Chemistry C111	05.04
10.	09.04	Electrophoresis / Capillary Electrophoresis (CE) Prof. Ferenc Kilár	Capillary Electrophoresis (CE): Determination of preservatives and vitamin C with capillary zone electrophoresis (CZE)	Anikó Kilár	TTK Dep. of Analytical Chemistry C111	12.04.
11.	16.04.	Nuclear Magnetic Resonance Spectroscopy (NMR) Prof. Ferenc Kilár	Mass Spectrometry (MS): Structural analysis of capsaicin and dihidrocapsaicin by electrospray – ion trap MS and MS/MS methods	Viktor Sándor	AOK Institute of Bioanalysis	19.04.
12.	23.04.	Electron Paramagnetic Resonance (EPR) Dr. Nóra Hartvig	Electron Paramagnetic Resonance (EPR): EPR spectroscopic examinations, evaluation of measurements	Nóra Hartvig	AOK Institute of Bioanalysis	26.04
13.	30.04.	Spectrometry III. Prof. Ferenc Kilár	Infrared Spectroscopy (IR):	Tamás Kégl	TTK Dep. of Analytical Chemistry	03.05.
14.	07.05.	TEST 2. Thermal Methods Prof. Ferenc Kilár	Supplemental practice Written test	Ibolya Kiss Balázs Csóka	SzKK B102	10.05.