

**PHARMACY 4TH SEMESTER
INSTRUMENTAL ANALYSIS**

SPRING 2015/2016

Weeks / Date		Lecture On Tuesday 8:00 -9:30 2.. Seminar Room	Practice On Friday 8:00 -11.00			
				Instructor	Workplace	
1.	02.02.	Introduction to Instrumental Analysis Prof. Ferenc Kilár	Introduction	Tímea Dergez Viktória Poór	SzKK B 102	
2.	09.02	Electroanalytical Chemistry Potentiometric Methods, Conductometric Methods Prof. Ferenc Kilár	Potentiometric Methods Acid – Base Titration: Titration of KOH solution using potentiometric end-point detection	Tímea Dergez Viktória Poór	SzKK B 102	
3.	16.02.	Introduction to Absorption Spectroscopy: Atomic spectroscopy Prof. Ferenc Kilár	Conductometric Methods: Titration of KOH solution using conductometric end-point detection Determination of the temporary hardness of tap-water by conductometry	Tímea Dergez Viktória Poór	SzKK B 102 I	
4.	23.02.	Ultraviolet(UV) – Visible(VIS) and Spectrophotometry Prof. Ferenc Kilár	Ultraviolet(UV) – Visible(VIS) Spectrophotometry: Methylenblue concentration measurement by spectrophotometry	S.fotometry Tímea Dergez	Sp.f SzKK B 102	Gr A. Sp.f
5.	01.03.	Separation Technique / Gas Chromatography Prof. Ferenc Kilár	Atomic spectrophotometry (AS) Concentration determination of potassium ion (K ⁺) solution by atomic emission Spectroscopy Concentration determination of copper ion (Cu ²⁺) solution with atomic absorption spectroscopy	AS Csilla Páger Tímea Pernyeszi	AAS TTK C 111.	Gr. A AAS GR. B SP.f
6.	08.03.	Separation Technique/ Liquid Chromatography / High - Performance Liquid Chromatography (HPLC) Electrophoresis / Capillary Electrophoresis (CE) I: Prof. Ferenc Kilár	Retake of the 2 nd and 3 rd practices	Tímea Dergez Viktória Poór	SzKK B 102 labor	

7.	15.03	HOLIDAY	Gas chromatography (GC): Gas chromatographic determination of normal alkanes	GC Viktória Poór Anita Bufa	Institute of Bioanalysis	Gr. A. GC
8.	29.03.	Test 1. Separation Technique/ Electrophoresis / Capillary Electrophoresis (CE) II. Prof. Ferenc Kílár	High - Performance Liquid Chromatography (HPLC): Quantitative analysis of active substance of Saridon analgetic	HPLC Viktor Sándor		Gr. A. HPLC
9.	05.04.	Mass Spectrometry. Prof. Ferenc Kílár	Capillary Electrophoresis (CE): Determination of preservatives and vitamin C with capillary zone electrophoresis (CZE)	CE Lilla Makszin Csilla Páger	Institute of Bioanalysis	Gr. A. CE
10	12.04	Nuclear Magnetic Resonance Spectroscopy (NMR) Dr. Zoltán Berente	Mass Spectrometry (MS): Structural analysis of capsaicin and dihidrocapsaicin by electrospray – ion trap MS and MS/MS methods	MS Viktor Sándor		Gr. A. MS
	.21.03- 25.03	Spring holiday	Spring holiday			:
11	19.04	Infrared Spectroscopy (IR) Dr. Tamás Kégl	Nuclear Magnetic Resonance Spectroscopy (NMR) Infrared Spectroscopy (IR)	NMR Zoltán Berente	NMR SZKK C. building TTK Dep. of Analytical Chemistry	Gr. A. NMR
12.	26.04	Fluorescency Ferenc Kílár		IR Tamás Kégl		Gr. A. IR
13	03.05.	Test 2	Chip electrophoresis	Lilla Makszin	Institute of Bioanalysis	
14.	10.05.	Thermal Methods Prof. Ferenc Kílár	Final Practice	?	SZZK B. 102.	

Spring Holiday (except ÁOSZ VI, FOSZ V. év és GYOSZ V. év):
2016. 03. 21. – 2016. 03. 25. (Húsvét előtti hét)