

INSTRUMENTAL ANALYSIS

OPA-MAN-T (1026454)

PHARMACY 4TH SEMESTER

SPRING 2013/2014

Weeks / Date		Lecture On Tuesday 8:00 -9:30 7. Seminar Room	Practice On Thursday and Friday 8:00 -11.00			
				Instructor	Workplace	Date
1.	28.01	Introduction to Instrumental Analysis Prof. Ferenc Kílár	Introduction	Ibolya Kiss Balázs Csóka	SzKK B102	31.01.
2.	04.02.	Electroanalytical Chemistry: Potentiometric Methods, Conductometric Methods Prof. Ferenc Kílár	Potentiometric Methods Direct potentiometry: Measurement of solution's pH by direct potentiometry	Balázs Csóka Ibolya Kiss	SzKK B102	07.02.
3.	11.02.	Introduction to Absorption Spectroscopy: Atomic spectroscopy Prof. Ferenc Kílár	Potentiometric Methods Acid – Base Titration: Titration of NaOH solution using potentiometric end-point detection	Balázs Csóka Ibolya Kiss	SzKK B102	13.02. 14.02.
4.	18.02.	Ultraviolet(UV) – Visible(VIS) and Infrared(IR) Spectrophotometry Prof. Ferenc Kílár	Conductometric Methods: Titration of NaOH solution using conductometric end-point detection Determination of the temporary hardness of tap-water by conductometry	Balázs Csóka Ibolya Kiss	SzKK B102	20.02. 21.02.
5.	25.02.	Separation Technique / Chromatographic Theory Prof. Ferenc Kílár	Ultraviolet(UV) – Visible(VIS) Spectrophotometry: Determination of NiSO ₄ concentration by spectrophotometry using standard addition method Methylenblue concentration measurement by spectrophotometry	Balázs Csóka	SzKK B102	27.02. 28.02.
6.	04.03.	Gas Chromatography (GC) Prof. Ferenc Kílár				
7.	11.03.	Liquid Chromatography / High - Performance Liquid Chromatography (HPLC) Prof. Attila Felinger	Supplemental practice	Balázs Csóka Ibolya Kiss	SzKK B102	13.03. 14.03.
8.	18.03.	TEST 1. Electrophoresis / Capillary Electrophoresis (CE) Prof. Ferenc Kílár	Gas chromatography (GC): Gas chromatographic determination of normal alkanes	Viktória Poór	AOK Institute of Bioanalysis	20.03. 21.03.
9.	25.03.	Mass Spectrometry (MS) Dr. Ágnes Dörnyei	High - Performance Liquid Chromatography (HPLC): Quantitative analysis of active substance of Saridon analgetic	Borbála Boros	TTK Dep. of Analytical Chemistry C111	and 27.03. 28.03.

10.	01.04.	Electrophoresis / Capillary Electrophoresis (CE) Prof. Ferenc Kilár	Capillary Electrophoresis (CE): Determination of preservatives and vitamin C with capillary zone electrophoresis (CZE)	Lilla Makszin	AOK Institute of Bioanalysis	03.04. 04.04.
11.	08.04	Spectrometry III. Prof. Ferenc Kilár		Mass Spectrometry (MS): Structural analysis of capsaicinoids by electrospray – ion trap MS and MS/MS methods	Ágnes Dörnyei Viktor Sándor	TTK Dep. of Analytical Chemistry C111
	15.04.	Spring holiday				17.04. 18.04.
12.	22.04.	Nuclear Magnetic Resonance Spectroscopy (NMR) Prof. Ferenc Kilár	Written test	Ibolya Kiss Balázs Csóka	SzKK B102	24.04. 25.04.
13.	29.04.	TEST 2. Electron Paramagnetic Resonance (EPR) Dr. Nóra Hartvig	Holiday			01.05. 02.05.
14.	07.05.	Thermal Methods Prof. Ferenc Kilár	Infrared Spectroscopy (IR):	Tamás Kégl	TTK Dep. of Analytical Chemistry	09.05.

PRACTICE (EXTRA) TIMETABLE:

THURSDAY: 8:00-11:00

1. Ahangar Sina
2. Kim ChunWoo
3. Kishani Farahani Yashar
4. Uzunlar Dicle
5. Fabiani Junio Fonseca de Souza
6. Marina Troian Passos
7. Vinicius Correa da Nobrega

27.02.2014	Ultraviolet(UV) – Visible(VIS) Spectrophotometry
06.03.2014	Atomic spectrophotometry (AS)
20.03.2014	Gas chromatography (GC)
27.03.2014	High - Performance Liquid Chromatography (HPLC)
03.04.2014	Capillary Electrophoresis (CE)
10.04.2014	Mass Spectrometry (MS)

FRIDAY: 8:00 – 11:00

GROUP A:

1. Afra Elnaz
2. Bibak Elham
3. Baradarbarjastehbaf Farid
4. Beidollahkhani Saeid
5. Farmanesh Somaiyeh
6. Fernanda Pagliardi Bertolino

28.02.2014	Ultraviolet(UV) – Visible(VIS) Spectrophotometry
07.03.2014	Atomic spectrophotometry (AS)
21.03.2014	Gas chromatography (GC)
28.03.2014	High - Performance Liquid Chromatography (HPLC)
04.04.2014	Capillary Electrophoresis (CE)
11.04.2014	Mass Spectrometry (MS)

GROUP B:

1. Asadi Davood
2. Grewal Jasdeep
3. Grewal Jasmine
4. Kenari Fatemeh
5. Mahootiha Atiehsadat
6. Saria Zarei
7. Zakeri Sara

28.02.2014	Atomic spectrophotometry (AS)
07.03.2014	Ultraviolet(UV) – Visible(VIS) Spectrophotometry
21.03.2014	High - Performance Liquid Chromatography (HPLC)
28.03.2014	Gas chromatography (GC)
04.04.2014	Mass Spectrometry (MS):
11.04.2014	Capillary Electrophoresis (CE)