

Instrumental Drug Analysis CHC024004L

Schedule

Group	TUESDAY 11:15-15:00							
	27.11	04.12	11.12	18.12	08.01	15.01	22.01	29.01
C	0	4&5	2&3	4&5	1	2&3	6	7
D	0	2&3	1	2&3	6	4&5	4&5	7

No.	Exercise	Issues	Place
0	Introduction	-	A-2/110
1	Conductometric and potentiometric titration for analysis of pharmaceutical formulations	Conductometry (theoretical basis), potentiometry conductometric titration, wheatstone bridge, solubility, Daniell cell, electrode potential, Nernst equation, diffusion potential, electromotive force of the cell	A-2/110
2	Determination of a presence of amino groups in amino acids-containing drugs	Chemical formulas of basic amino acids, functional groups in organic chemistry, distillation using water steam, Lambert-Beer Law, calculating concentrations and preparing dilutions	H-6/121
3	Free sulfhydryl groups in amino acids-containing drugs		
4	The rheological properties of basic components of pharmaceutical ointments and creams	Rheology, rheological classification of liquids, thixotropy, ointments, creams, base of ointments and creams	H-6/121
5	Wettability properties of polymeric materials	The surface tension – the definition and the basic information, The types of interactions in polymers, Adhesion and cohesion The contact angle	H-6/121
6	Colorimetric analysis of aspirine in commercial pharmaceuticals	Perception of a colour, preparing dilutions, calculating concentrations	A-2/110
7	Additional term	-	