

PHARMACEUTICAL CHEMISTRY & ANALYSIS LECTURES**3rd YEAR 1st SEMESTER 2024/2025.**

Monday: 13.30 -15.10 and Thursday: 8.00 -9.40

week	date	THEME	lecturer	hours
1	02. 09.	Introduction. (Pharmaceutical Chemistry, Pharmacopoeias)	Dr. Balogh	1
	05. 09.	Preliminary testing of inorganic and organic compounds, classification	Dr. Horváth	1
		Methods for identification of inorganic compounds	Dr. Horváth	1
		Identification of organic functional groups	Dr. Horváth	1
2	09. 09.	General purity tests in Pharmacopoeia	Dr. Horváth	2
	12. 09.	Structural and physical chemistry of drug action I	Dr. Balogh	2
3	16. 09.	Protonspeciation of drugs, Determination of protonation constants, optimization of pH-dependent processes	Dr. Balogh	2
	19. 09.	Characterization of lipophilicity, determination of partition coefficient	Dr. Balogh	2
4	23. 09.	The role of solubility in drug discovery. Kinetic and thermodynamic solubility and methods of determination	Dr. Balogh	2
	26. 09.	Role of active substance permeability in ADME processes	Dr. Balogh	2
5	30. 09.	Separation techniques TLC and HPLC	Dr. Tóth	2
	03. 10.	Application of UV-VIS spectrophotometry in the analysis of drugs	Dr. Horváth	2
6	07. 10.	Determination of organic acids and bases	Dr. Horváth	2
	10. 10.	Major analgetics I.	Dr. Kraszni	2
7	14. 10.	Major analgetics II.	Dr. Kraszni	2
	17. 10.	Minor analgetics	Dr. Mazák	2
8	21. 10.	Nonsteroidal antiinflammatory drugs	Dr. Mazák	2
	24. 10.	Narcotics, sedato-hypnotics and anxiolytics	Dr. Mazák	2
9	28. 10.	Local anaesthetics	Dr. Horváth	2
	31. 10.	Psychopharmacons I.	Dr. Kraszni	2
10	04. 11.	Psychopharmacons II.	Dr. Kraszni	2
	07. 11.	Cholinergic and adrenergic agents I.	Dr. Tóth	2
11	11. 11.	Cholinergic and adrenergic agents II.	Dr. Tóth	2
	14. 11.	Cholinergic and adrenergic agents III.	Dr. Tóth	2
12	18. 11.	Drugs acting on the digestive system	Dr. Pála	2
	21. 11.	Antiepileptics	Dr. Mazák	2
13	25. 11.	Drug discovery and research	Dr. Balogh	2
	38. 11.	Drug development	Dr. Volk	2
14	02. 12.	Consultation		2
	05. 12.	Exam preparation – exam practice tasks		2