

PHARMACEUTICAL CHEMISTRY & ANALYSIS LECTURES

3rd YEAR 1st SEMESTER 2025/2026.

Monday: 13.30 -15.10 and Thursday: 8.00 -9.40

week	date	THEME	lecturer	hours
1	08. 09.	Introduction. (Pharmaceutical Chemistry, Pharmacopoeias)	Dr. Horváth	1
		Preliminary testing of inorganic and organic compounds, classification		1
	11. 09.	Methods for identification of inorganic compounds		1
		Identification of organic functional groups		1
2	15. 09.	General purity tests in Pharmacopoeia	Dr. Horváth	2
	18. 09.	Structural and physical chemistry of drug action I	Dr. Mazák	2
3	22. 09.	Protonspeciation of drugs, Determination of protonation constants, optimization of pH-dependent processes	Dr. Balogh	2
	25. 09.	Characterization of lipophilicity, determination of partition coefficient	Dr. Balogh	2
4	29. 09.	The role of solubility in drug discovery. Kinetic and thermodynamic solubility and methods of determination	Dr. Balogh	2
	02. 10.	Role of active substance permeability in ADME processes	Dr. Balogh	2
5	06. 10.	Separation techniques TLC and HPLC	Dr. Tóth	2
	09. 10.	Application of UV-VIS spectrophotometry in the analysis of drugs	Dr. Horváth	2
6	13. 10.	Determination of organic acids and bases	Dr. Horváth	2
	16. 10.	Major analgetics I.	Dr. Kraszni	2
7	20. 10.	Major analgetics II.	Dr. Kraszni	2
	23. 10.	Antiepileptics-National Holiday	Dr. Mazák	2
8	27. 10.	Minor analgesics and NSAID I	Dr. Mazák	2
	30. 10.	Minor analgesics and NSAID II	Dr. Mazák	2
9	03. 11.	Local anaesthetics	Dr. Horváth	2
	06. 11.	Psychopharmacons I.	Dr. Kraszni	2
10	10. 11.	Psychopharmacons II.	Dr. Kraszni	2
	13. 11.	Cholinergic and adrenergic agents I.	Dr. Tóth	2
11	17. 11.	Cholinergic and adrenergic agents II.	Dr. Tóth	2
	20. 11.	Cholinergic and adrenergic agents III.	Dr. Tóth	2
12	24. 11.	Drugs acting on the digestive system	Dr. Pála	2
	27. 11.	Narcotics, sedato-hypnotics and anxiolytics	Dr. Mazák	2
13	01. 12.	Drug discovery and research	Dr. Balogh	2
	04. 12.	Drug development	Dr. Volk	2
14	08.12.	Consultation	Dr. Horváth	2
	11.12	Exam preparation – exam practice tasks	Dr. Horváth	2