

**Thematic plan of seminars
in the discipline "Pharmacognosy"
for students of the educational program of 2022 admission year
specialist in the specialty 33.05.01 Pharmacy,
direction (profile) Pharmacy,
form of study full-time
for the 2024-2025 academic year**

№	Thematic blocks	Hours (academic)
5 semester		
1.	Basics of pharmacognostic analysis of medicinal plant raw materials.	17,5
	Control of knowledge, abilities, skills on thematic blocks: " Basics of pharmacognostic analysis of medicinal plant raw materials "	2,5
2.	Fats and fat-like substances.	2
	Polysaccharides.	4
	Vitamins.	4
	Control of knowledge, abilities, skills in thematic blocks: Fats and fat-like substances. Polysaccharides. Vitamins ".	2,5
3.	Essential oils.	13,5
	Control of knowledge, abilities, skills on thematic blocks: " Essential oils. "	2,5
4.	Final session.	2,5
6 semester		
5.	Alkaloids.	10
	Control of knowledge, abilities, skills by thematic blocks: "Alkaloids ".	2
6.	Glycosides.	10
	Control of knowledge, abilities, skills by thematic blocks: "Glycosides ".	2
7.	Simple phenols. Anthracene derivatives.	8
	Control of knowledge, abilities, skills by thematic blocks: " Simple phenols. Anthracene derivatives."	2
8.	Final session.	2
7 semester		
9.	Flavonoids.	8
	Control of knowledge, abilities, skills in thematic blocks: " Flavonoids. "	2
10.	Coumarins.	2

	Chromones and lignans.	2
	Tannins.	4
	Phytochemical analysis of raw materials containing coumarins, chromones, tannins, lignans.	2
	Control of knowledge, abilities, skills on thematic blocks: " Coumarins. Chromones and lignans. Tannins."	2
11.	Analysis of an unknown crushed medicinal raw material.	4
	Resource science.	4
	Control of knowledge, abilities, skills on thematic blocks: " Analysis of an unknown crushed medicinal raw material. Resource science."	2
12.	Final lesson. Test.	2
	Total	121

Considered at the meeting of the department of pharmaceutical, toxicological chemistry, pharmacognosy and botany "28" August 2024, protocol No 1

Head of the Department

A.A. Ozerov