

**Thematic plan of seminar-type classes
for in discipline «Pharmacognosy»
for students of 2023 year of admission
under the educational programme
33.05.01 Pharmacy,
Specialist's degree,
form of study full-time
for the 2025-2026 academic year**

№	Thematic blocks	Hours (academic) ³
5 semester		
1.	Introduction to Pharmacognosy. Fundamentals of pharmacognostic analysis of medicinal plant materials (part 1). ¹ Objectives, tasks of the discipline. Basic concepts. Safety instructions. Morphological groups of medicinal plant raw materials, methods of their analysis. ²	4
2.	Introduction to Pharmacognosy. Fundamentals of pharmacognostic analysis of medicinal plant materials (part 2). ¹ Morphological groups of medicinal plant raw materials, methods of their analysis. ²	4
3.	Introduction to Pharmacognosy. Fundamentals of pharmacognostic analysis of medicinal plant materials (part 3). ¹ Methods of pharmacognostic analysis of medicinal plant materials ²	4
4.	Introduction to Pharmacognosy. Fundamentals of pharmacognostic analysis of medicinal plant materials (part 4). ¹ Methods of pharmacognostic analysis of medicinal plant materials ²	4
5.	Control of knowledge, skills, abilities according to modular unit 1. ¹	4
6.	Vitamins. ¹ Definition, classification, methods of isolation and analysis. Medicinal plant material containing vitamins. ²	4
7.	Polysaccharides. ¹ Definition, classification, methods of isolation and analysis. Medicinal plant material containing polysaccharides. ²	4
8.	Essential oils (part 1). ¹ Definition, classification, methods of isolation and analysis. ²	4
9.	Essential oils (part 2). ¹ Medicinal plant material containing essential oils. ²	4
10.	Essential oils (part 3). ¹ Medicinal plant material containing essential oils. ²	4
11.	Essential oils (part 4). ¹ Medicinal plant material containing essential oils. ²	4
12.	Control of knowledge, skills, abilities according to modular unit 2 (part 1). ¹	4
13.	Alkaloids (part 1). ¹ Definition, classification, methods of isolation and analysis. ²	4
14.	Alkaloids (part 2). ¹ Medicinal plant material containing alkaloids. ²	4
15.	Alkaloids (part 3). ¹ Medicinal plant material containing alkaloids. ²	4

16.	Alkaloids (part 4). ¹ Medicinal plant material containing alkaloids. ²	4
17.	Alkaloids (part 5). ¹ Medicinal plant material containing alkaloids. ²	4
18.	Control of knowledge, skills, abilities according to modular unit 2 (part 2). ¹	4
6 semester		
19.	Glycosides (part 1). ¹ Iridoids, definition, classification, methods of isolation and analysis. Medicinal plant material containing iridoids. ²	4
20.	Glycosides (part 2). ¹ Cardiac glycosides, definition, classification, methods of isolation and analysis. Medicinal plant material containing cardiac glycosides. ²	4
21.	Glycosides (part 3). ¹ Saponins, definition, classification, methods of isolation and analysis. Medicinal plant material containing saponins. ²	4
22.	Control of knowledge, skills, abilities according to modular unit 2 (part 3). ¹	4
23.	Phenolic glycosides. ¹ Definition, classification, methods of isolation and analysis phenolic glycosides. Medicinal plant material containing phenolic glycosides. ²	4
24.	Anthracene derivatives (part 1). ¹ Definition, classification, methods of isolation and analysis phenolic glycosides. Medicinal plant material containing anthracene derivatives. ²	4
25.	Anthracene derivatives (part 2). ¹ Medicinal plant material containing anthracene derivatives. ²	4
26.	Control of knowledge, skills, abilities according to modular unit 2 (part 4). ¹	4
27.	Flavonoids (part 1). ¹ Definition, classification, methods of isolation and analysis. ²	4
28.	Flavonoids (part 2). ¹ Medicinal plant material containing flavonoids. ²	4
29.	Flavonoids (part 3). ¹ Medicinal plant material containing flavonoids. ²	4
30.	Control of knowledge, skills, abilities according to modular unit 2 (part 5). ¹	4
31.	Coumarins. ¹ Definition, classification, methods of isolation and analysis. Medicinal plant material containing coumarins. ²	4
32.	Tannins (part 1). ¹ Definition, classification, methods of isolation and analysis. Medicinal plant material containing tannins. ²	4
33.	Tannins (part 2). ¹ Medicinal plant material containing tannins. ²	4
34.	Control of knowledge, skills, abilities according to modular unit 2 (part 6). ¹	4
35.	Assessment of theoretical knowledge on the material of discipline ¹	2
36.	Assessment of skills, practical abilities on the material of discipline ¹	2
	Total	140

¹ – topic

² – essential content

³ – one thematic block includes several classes, the duration of one class is 45 minutes, with a break between classes of at least 5 minutes

Considered at the department meeting of Pharmaceutical, Toxicological Chemistry, Pharmacognosy and Botany, protocol of «30» May 2025. № 10.

Head of the Department



A.A. Ozerov.

