Thematic lesson plan of lectures in the discipline ''Pharmacognosy'' for students of the educational program specialist in the specialty 33.05.01 Pharmacy, direction (profile) Pharmacy, form of study full-time for the 2023-2023 academic year

N⁰	Topics of lectures	Hours (academic)
1.	Pharmacognosy as a science and academic discipline. ¹ Tasks and its role in the practical activity of a pharmacologist. Classification systems of medicinal plant raw materials. ²	2
2.	Basics of the procurement process. ¹ Rational methods of collection of medicinal plant raw materials. Processing and storage of raw materials. Influence of environmental factors on the quality of medicinal plant raw materials. ²	2
3.	Pharmacognostic analysis. ¹ Methods of pharmacognostic analysis of medicinal plant raw materials. ²	2
4.	Vitamins ⁻¹ Concept, classification, methods of vitamin analysis. Medicinal plants and raw materials containing vitamins. ²	2
5.	Polysaccharides. ¹ Concept, classification, methods of analysis of polysaccharides. Medicinal plants and raw materials containing polysaccharides. ²	2
6.	Essential oils. ¹ The concept of essential oils. Methods of isolation of essential oils. ²	2
7.	Terpenoids. ¹ Medicinal plants and raw materials containing acyclic, monocyclic and bicyclic terpenoids. ²	2
8.	Terpenoids. ¹ Medicinal plants and raw materials containing sesquiterpenes. ²	2
9.	Terpenoids. ¹ Medicinal plants and raw materials containing aromatic compounds. ²	2
10.	Alkaloids. ¹ Concept, classification, methods of analysis. Medicinal plants and raw materials containing acyclic alkaloids and alkaloids with nitrogen in the side chain. ²	2
11.	Alkaloids. ¹ Medicinal plants and raw materials containing derivatives of pyrrolidine and pyrrolizidine, pyridine and piperidine, tropane. ²	2
12.	Alkaloids. ¹ Medicinal plants and raw materials containing derivatives of isoquinoline, quinolizidine, quinoline, indole. ²	2
13.	Alkaloids. ¹ Medicinal plants and raw materials containing derivatives of imidazole, purine. Medicinal plants and raw materials containing derivatives of diterpene alkaloids, steroidal alkaloids. ²	2
14.	Glycosides. ¹ Concept, classification, methods of analysis. Medicinal plants and raw materials containing bitter glycosides. ²	2
15.	Cardiac glycosides. ¹ Concept, classification, methods of analysis. Medicinal plants and raw materials containing cardiac glycosides. ²	2
16.	Saponins. ¹ Concept, classification, methods of analysis. Medicinal plants and raw materials containing saponins. ²	2
17.	Phenolic compounds. ¹ Concept, classification, methods of analysis. Medicinal plants and raw materials containing simple phenols. ²	2
18.	Anthracene derivatives. ¹ Concept, classification, methods of analysis.	2

	Medicinal plants and raw materials containing anthracene derivatives. ²	
19.	Flavonoids. ¹ Classification of flavonoids. Distribution of flavonoids in	
	nature. Extraction of flavonoids from plant material. Research methods	4
	of flavonoids. Significance of flavonoids. Biosynthesis of flavonoids.	
	Medicinal plants and raw materials containing flavonoids. ²	
20.	Coumarins. ¹ Concept, classification, methods of analysis. Medicinal	2
	plants and raw materials containing coumarins. ²	2
21.	Chromones. ¹ Concept, classification, methods of analysis. Medicinal	
	plants and raw materials containing chromones. Lignans. Medicinal	2
	plants and raw materials containing lignans. ²	
22.	Tannins. ¹ Concept, classification, methods of analysis. Medicinal plants	4
	and raw materials containing tannins. ²	4
23.	Medicinal raw materials of animal origin. ¹ Types of medicinal raw	2
	materials of animal origin, their use in medicine. ²	
	Total	50
Sub		

¹-Subject ² - essential content (if necessary)

Considered at the meeting of the department of pharmacognosy and botany "26" may 2023, protocol No10

Head of the Department

Murph.

A.V. Yanitckaya