

**Thematic lesson plan of lectures  
in the discipline "Botany"  
for students of the educational program  
specialist  
in the specialty 33.05.01 Pharmacy,  
form of study full-time education  
for the 2023-2024 academic year**

№	Topics of lectures	Hours (academic )
III semester		
1.	Botany is a biological science. A plant is a living organism.	2
2.	Plant tissues. Meristems, the process of plant cell division. Cover and excretory tissues.	2
3.	Mechanical, basic and conductive tissues. Types of vascular- fibrous bundles.	2
4.	Morphology and anatomy of the root.	2
5.	Anatomical structure of the herbaceous and woody stem. Morphology of the stem.	2
6.	Morphology and anatomical structure of the leaf.	2
7.	Fundamentals of the morphology of generative organs. The structure and functions of the flower. Inflorescences.	2
8.	Biological bases of classification of the plant world	2
9.	Higher spore plants	2
10.	Division of Gymnosperms. General characteristics, biology of reproduction.	2
11.	Division of Angiosperms. Overview of the main orders and families of angiosperms. A subclass of Magnoliidae.	2
IV semester		
12.	Subclass of Ranunculidae	2
13.	Subclass of Cariophyllidae Subclass of Hamamelididae.	2
14.	Subclass of Dilleniidae	2
15.	Subclass of Rosidae.	2
16.	Subclass of Lamiidae	2
17.	Subclass of Asteridae.	2
18.	Class monocotyledons	2
	Total	36

Considered at the meeting of the department of Pharmacognosy and Botany "26" May 2023, protocol No10

Head of the Department  
of Pharmacognosy  
and Botany, Associate Professor



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