

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

№	The topic of independent work	Hours (academic)
1.	The history of the development of botany from old times to the present day	3
2.	Mineral nutrition of plants	3
3.	The bud, its structure. Classification of buds.	3
4.	Flower. Theories of the origin of the flower.	3
5.	Pollination. Types of pollination.	3
6.	Distribution of fruits and seeds.	3
7.	Plant growth and development	3
8.	The concept of plant ontogenesis. Stages of ontogenesis	3
9.	Basic terms and concepts of plant taxonomy.	2
10.	The kingdom of Mushrooms. Features of the structure and reproduction of fungi.	3
11.	Classification of fungi. The main taxa of the kingdom of fungi.	3
12.	Lower plants. Features of the structure and development cycles of the main divisions of lower plants.	3
13.	Subclass Magnoliidae. Characteristics of the main families of the subclass.	2
14.	Subclass Arecidae. Characteristics of the main families of the subclass.	2
	Total	39

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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