

**Academic discipline:
"Plant physiology"**

Code and name of specialty	1- 02 04 01 Biology and chemistry
Training course	3
Semester of training	5, 6
Number of class hours:	124
Lectures	28
Seminar classes	10
Practical classes	14
Laboratory classes	72
Form of current assessment (credit/differential credit/exam)	Exam, credit
Number of credits	7
Competencies to be formed	To set up and conduct experiments and tests to study the processes occurring in plants on the basis of knowledge about the integrity of the plant organism, the relationship of its structure and functions, changes during individual development and under the influence of environmental conditions.

Summary of the content of the academic discipline:

The discipline "Plant physiology" gives students a clear system of knowledge about the integrity of the plant organism, the relationship of its structure and functions, changes during individual development and under the influence of environmental conditions. While the discipline, students become familiar with the general regularities and specific mechanisms underlying the vital activity of plants; energy processes of plant organism (photosynthesis and respiration processes); water regime and mineral nutrition; membrane and long-range transport of substances; processes of growth, development and reproduction; mechanisms of resistance and adaptation to adverse environmental factors; features of secondary metabolism of plants.