



"APPROVED"  
Head of the Chair of pharmacognosy  
and pharmaceutical botany,  
Dr. hab. of biol., prof.  
 Tatiana Calalb  
January 28 2026

**CALENDAR THEMATIC PLAN**  
of lectures and seminars on **ECOLOGY AND MEDICINAL PLANTS** for 1<sup>st</sup> year students,  
Faculty of Pharmacy, academic year 2025-2026 (II<sup>nd</sup> semester)

ON	THEME	Numbers of hours		
		Lectures	Practical hours	Self-training
1.	Introduction and argumentation. Notions. Biodiversity and ecology. Levels of organization of the living world. Food chains and the biological cycle of substances in nature. Plants and ecological factors (abiotic and biotic).	2 05, 12.02	2 05.02	-
2.	Abiotic factors. Light and temperature as ecological factors. Ecological types of plants. Global warming and the consequences for the environment and plants. Examples on medicinal plants.	2 19,26.02	6 12-26.02	1
3.	The water as an ecological factor. Plant's adaptation to the hydric regime and characteristic of the ecological groups: hydrophytes, mesophytes and xerophytes. Examples on medicinal plants.	2 05,12.03	4 05,12.03	2
4.	Nutrition as an ecological factor. Soil quality. The role of macro- and microelements in plant development. Examples of medicinal plants according to nutritional needs.	2 19,26.03	4 19,26.03	2
5.	The biotic ecological factors and medicinal plants. The intra- and interspecific relationships. Antropogenic factor. <b>Knowledge assessment.</b>	2 02,09.04	4 02,09.04	2
6.	Plants and environmental pollution. The main sources of pollution. Medicinal plants and the quality of vegetal products. The effects of natural cataclysms on the development of plants. Ecological agriculture. The necessity and perspectives of ecological agriculture. <b>Evaluation of thematic projects.</b>	2 23,30.04	6 23,30.04, 07.05	6
7.	The legal framework and measures taken regarding the protection of plants and the environment. The role of the human factor in global and national environmental strategies.	3 07,14.05	4 14,21.05	2
<b>Total: 60 hours</b>		<b>15</b>	<b>30</b>	<b>15</b>

Responsible for subject, dr. hab. biol. sc., univ. prof.



Tatiana Calalb

Discussed and approved at the department meeting, Minutes No. 8 of 28.01.2026

Head of studies  
PhD of pharmacy, associate professor



Maria Cojocaru-Toma