



No. _____ of

USAMV form 109010210

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Agriculture
1.3. Department	II Crops science
1.4. Field of study	Agronomy
1.5. Cycle of study ¹	Master
1.6. Specialization/ Study programme	Management of natural and agrotouristic resources
1.7. Form of education	Full time

2. Information on the discipline

2.1. Discipline name	Medicinal plants of spontaneous flora						
2.2. Course coordinator	Phd. lecturer Rodica Varban						
2.3. Seminar/ laboratory/ project coordinator	Phd. lecturer Rodica Varban						
2.4. Year of study	2.5. Semester	I	2.6. Evaluation type	continuous	2.7. Discipline status	Content ²	DF
						Compulsoriness ³	DI

3. Total estimated time (teaching hours per semester)

3.1. Hours per week - full time programme	2	out of which: 3.2. lecture	1	3.3. seminar/ laboratory/ project	1
3.4. Total number of hours in the curriculum	28	out of which: 3.5. lecture	14	3.6. seminar/laboratory	14
Distribution of the time allotted					hours
3.4.1. Study based on books, textbooks, bibliography and notes					30
3.4.2. Additional documentation in the library, electronic platforms and field experiences					30
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					20
3.4.4. Tutorials					10
3.4.5. Examinations					7
3.4.6. Other activities					
3.7. Total hours of individual study	97				
3.8. Total hours per semester	125				
3.9. Number of credits ⁴	5				

4. Prerequisites (if applicable)

4.1. curriculum-related	Botany, general notions, Plant morphology and anatomy, Systematic Botany
4.2. skills-related	-

5. Conditions (if applicable)

5.1. for the course	The university discipline requires the observance of the start and end time of the course.
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5.2. for the seminar/ laboratory/ project	In the practical work it is compulsory to consult the grass, each student will carry out an individual activity with the press materials made available. Academic discipline is required throughout the duration of the work.
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Notă: În cazul activității didactice desfășurate online metodele de predare se adaptează condițiilor și platformelor online utilizate

6. Cumulated specific competences

Professional competences	Systematic recognition, identification and classification of medicinal plants according to morphological and anatomical criteria Knowing the history of the use of medicinal plants. Knowledge of the chemical composition of medicinal and aromatic plants. Identification of plants with therapeutic action. Acquiring the therapeutic effects of medicinal plants from spontaneous flora.
Transversal competences	Plant recognition Identification of medicinal plants used in various conditions

7. Discipline objectives (based on the cumulated specific competences)

7.1. General objective	Presentation of medicinal plants and classification into systematic categories, with which they operate in systematic botany Knowledge of the scientific nomenclature and the therapeutic effects of medicinal plants Assimilation of botanical and pharmacognostic information, ecology, spread, medicinally used part, period and mode of harvesting, data on chemical composition, therapeutic indications and herbal products in which they are found
7.2. Specific objectives	Systematic presentation of medicinal plants and their grouping according to the active principles Knowledge of the specific flora of Romania and of the main medicinal plants of spontaneous flora Identification of medicinal plants in nature, to understand the various phenomena of the plant world.

8. Content

8.1. COURSE Number of hours - 14	Teaching methods	Observation
1. The importance of medicinal plants: vegetative organs (root, stem, leaves), generative (flowers, fruits, seeds), metamorphosed	Lecture	1 Lecture
2. Methods for the recognition of medicinal plants. The dichotomous key of determination	Lecture	2 Lectures
3. Systematic classification and description of plants from spontaneous flora	Lecture	3 Lectures
4. Rare medicinal plants and their protection	Lecture	2 Lectures
5. Phytogeography and phytosociology of medicinal plants	Lecture	2 Lectures
6. Collection, drying and preservation of medicinal plants	Lecture	1 Lecture
7. Harvest calendar	Lecture	1 Lectures
8 How to use medicinal plants	Lecture	1 Lectures

8.2. PRACTICAL WORKS Number of hours - 28	Teaching methods	Observation
1. Binary nomenclature of plants. Systematic categories. Presentation of vegetative organs (root, stem, leaves), generative (flowers, fruits, seeds) and metamorphosed organs	Description and recognition of herbs	2 labs work

2. Determination of medicinal plants with the help of determinants and identification of parts of the plant with medicinal properties	Determination and recognition of plants from grass and fresh material	3 labs work
3. Presentation and description of medicinal plants	Description and recognition of herbs	4 labs work
4. Collection, drying and storage of medicinal plants	Presentation of methods of collecting and preserving medicinal plants	1 lab work
5. Presentation of themes prepared by the master's students, having as topics natural resources from spontaneous flora (each student presents medicinal plants used in different conditions, (by extension to lot).	Comments on the preparation, presentation and correctness of the data presented.	3 labs work
6. Practical exam	Recognition of medicinal plants and parts of the plant with therapeutic value (herbal, fresh material)	1lab work
Compulsory bibliography:		
1. L. S. Muntean et al., 2007, Treatise on cultivated medicinal plants and spontaneous flora, Risoprint Publishing House Cluj-Napoca 2. M. Tămaș et al., 2005, Guide for the recognition and harvesting of medicinal plants, vol I, Spontaneous Flora, Dacia Cluj-Napoca Ed. 3. D. Vârban, Rodica Vârban, 2005, Medicinal plants cultivated and from spontaneous flora, Risoprint Ed. Cluj-Napoca 4. Rodica Vârban, D. Varban, 2017, Medicinal plants grown from spontaneous flora, Bioflux Ed. Cluj-Napoca		
Optional bibliography:		
1. Rodica Vârban, Florin Păcurar, Dictionary of botany, pratology and agroecology, 2011, Ed. Risoprint Cluj-Napoca, 2. Atlases, determinants of plants, flora of Romania etc.		

9. Corroborating the discipline content with the expectations of the epistemic community representatives, of the professional associations and of the relevant employers in the corresponding field

Botanical terminology is constantly compatible with international terms, used in particular by English and German literature. The international character of the biological and botanical terminology was emphasized.

10. Evaluation

Type of activity	10.1. Evaluation criteria	10.2. Evaluation type	10.3. Percentage of the final grade
10.4. Course	Phylogenetic considerations on the Plantae Kingdom, Classification of living organisms, description of medicinal plants and their content in active principles.	continuous	80 %
10.5. Seminar/Laboratory	Description and recognition of medicinal plants, according to morphological characters. Presentation of the themes	Practical exam	20%
10.6. Minimum performance standards			
Mastery of scientific information transmitted through lectures and practical papers at an acceptable level. Obtaining the minimum mark for the practical exam is a condition of promotability..			

¹ Cycle of studies - choose one of the three options: Bachelor/Master/Ph.D.

² according to the educational plan

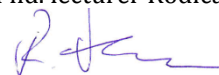
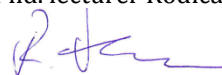
³ Discipline status (compulsoriness) - choose one of the options – **DI** (compulsory discipline) **DO** (optional discipline) **DFac** (facultative discipline).

⁴ One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

Filled in on
14.09.2020

Course coordinator
Phd. lecturer Rodica Varban

Laboratory work
Phd. lecturer Rodica Vârban



Approved by the
department on
14.092020

Head of the Department
Lecturer PhD. Cristina Moldovan

