

Cultivation of medicinal and aromatic plants (IIIrd YEAR, VIth SEMESTER)

No. of transferable credits 3

Course status

Discipline field (optional course)

Course holder

Prof. PhD. Teodor ROBU

Discipline's objectives (course and applications)

The course aims to make students to acquire knowledge on the importance of medicinal plants, how to use species depending on contained active principles. It also aims to acquire knowledge about medicinal plants upon their provenience: from spontaneous or cultivated area. Knowledge about methods and techniques of harvesting, drying, conditioning and primary processing will be acquired during this course.

Practical work aims to make students acquire knowledge on biological particularities of medicinal and aromatic species (anatomy, morphology), systematic classification (family, genus, species), requirements related to vegetation factors (temperature, humidity, food, soil, light), edible parts and potential use of each species.

Discipline content (analytical program)

Course(Chapters)
I. History of using medicinal and aromatic plants in our country and all over the world.
II. Classification of medicinal and aromatic plants
III. Active principles/ ingredients of medicinal and aromatic plants
IV. Spontaneous of medicinal and aromatic species
V. Harvesting, drying and packaging of medicinal and aromatic plants
VI. Primary processing of medicinal and aromatic plants
VII. Use of medicinal and aromatic plants
Practical works/Seminaries/ Lab activity
Introductory and general concepts related to potential use of aromatic and medicinal species, screening of classification criteria.
Highlighting the toxic potential of some medicinal and aromatic species. Elements of safety during harvesting, storage, processing, packaging and use of medicinal and aromatic species
General notions on edible part of medicinal and aromatic species, active principles and their concentration in various organs.
Medicinal and aromatic species of <i>Apiaceae</i> Family.
Medicinal and aromatic species of <i>Labiatae</i> Family.
Medicinal and aromatic species of <i>Asteraceae</i> Family.
Medicinal and aromatic species of other botanical families, as follows: <i>Brassicaceae</i> , <i>Solanaceae</i> , <i>Eleagnaceae</i> , <i>Papaveraceae</i> , <i>Cruciferae</i> , <i>Rosaceae</i> , <i>Canabaceae</i> .
Particular techniques for harvesting of medicinal and aromatic species for a superior potential exploitation - technology sheets based on morphology and use of species.

Obtaining drugs from medicinal herbs

Final colloquium - knowledge tests.
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Bibliography

1. Bojor O., 2009 - *Ghidul plantelor medicinale si aromatice de la A la Z*, Ed. Fiat Lux 268p, ISBN 9789739250689.
2. Brezeanu Creola și colab. - 2010 - *Plante Utile Pentru Agricultura Ecologică* – Ed. Alma Mater, ISBN 978-606-527-085-5, 131 p.
3. Milică C., Elena Bavaru, **Robu T.**, 2004 - *Izvoare de sănătate din flora medicinală*. Editura Ovidius University Press, Constanța, 285 p. ISBN 973 – 614-193-4.
4. Muntean L. S. 2007 - *Tratat de plante medicinale cultivate si spontane*, Ed. Risoprint, Cluj Napoca, 928 p ISBN 978-973-751-463-9.
5. **Robu T.**, Milică C. 2004 - *Plante medicinale autohtone*, Editura Institutul European, Iași, 300 p.
6. Zaharia M. și colab. 2011 – *Fitotehnie, Lucrări de laborator*, Editura “Ion Ionescu de la Brad”, Iași.

Final evaluation

Types of evaluation	Types of evaluation	% from final grades
Exam	Written assessment	60%
Assessment activity during the semester	Oral evaluation during semester, knowledge tests. Final colloquium	40%

Contact person

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