

## Pharmacognosy ( 3<sup>rd</sup> YEAR, 6<sup>th</sup> SEMESTER)

**Credit value (ECTS): 3**

**Course category: optional**

**Course holder:**

**Prof.univ.dr. ROBU Teodor**

### Discipline objectives (course and practical works)

The aim of this course is the acquiring by the students of the knowledge regarding the importance of aromatic plants, condiments and tinctorial plants and how to use it in pharmaceutical industry. The students will acquire knowledge on methods of harvesting, drying and conditioning for the use in pharmaceutical industry.

The practical works aim is for the students to acquire the knowledge regarding the biological particularities of condiments and aromatic and tinctorial species (anatomy, morphology), as well as it's systematic classification (family, species), edible parts and the potential use of each specie in the pharmaceutical industry.

### Contents (syllabus)

Course (chapters)
Chapter I. History of the use of the medicinal and aromatic plants throughout the world and in Romania
Chapter II. Medicinal plant classification
Chapter III. Active principles of medicinal plants – carbohydrates
Chapter IV. Plants containing vitamins, volatile oils and lipids
Chapter V. Active principles of medicinal plants – glycosides – heterosides, saponosides – saponins
Chapter VI. Active principles of medicinal plants- Alkaloids
Chapter VII. Plants containing heterosides (bitter substances and tannins)

Practical works
Chapter I. Labor protection
Chapter II. P.S.I. norms (general and special)
Chapter III. Making the main products (extracts) from medicinal plants
Chapter IV. Making the main products (extracts) from medicinal plants
Chapter V. Obtaining of volatile oils

### Bibliography

1. Becker Georges, 1983, - *Champignons*, Ed Grund, Paris
2. Bremness L., 1996 – *Les Plantes Aromatiques et Medicinales*. Editure Bordas – Nature, Paris.
3. Bruneton Jean, 1993 – *Pharmacognosie, Phytochimie, Plantes medicinales*. 2<sup>e</sup> edition
4. Barloy Jean, 2010, - *Biodiversitatea plantelor cultivate*
5. Ciulei I., Grigorescu E., Stănescu Ursula., 1993 – *Fitochimie și fitoterapie*, Vol I și II, Editura medicală, Bucuresti.
6. Constantinescu Gr., Hațieganu Elena, 1986 – *Plantele medicinale*, Editura medicala, Bucuresti

7. Csaba Locsmandi, Ghizella Vasas, 2013, - *Ghidul culegătorului de ciuperci*. Ed. Casa, Oradea.
8. Ionel Adrian , Zanoschi Valeriu, Pascal Petrache, 2000, - *Plante furajere toxice si medicinale*, Edit. A92, Iasi
9. Istudor Viorica, 2001 – *Farmacognozie, Fitochimie, Fitoterapie*. Editura Medicală București.
10. Mateescu N, 1984, - *Sortimentul de ciuperci cultivate*, Bucuresti.
11. Milică C. Bavaru Elena, **Robu T.**, 2004 - *Plantele medicinale, izvor de sănătate*. Editura “Ovidius” Constanța.
12. Muntean L. S. 1996 *Cultura plantelor medicinale si aromatice*, Editura Dacia, Cluj Napoca.
13. Păun Emil si colab. 1986 – *Tratat de plante medicinale si aromatice cultivate*, Vol. I si II, Editura Academiei Republicii Socialiste Romania, Bucuresti.
14. **Robu T.**, Milică C, 2004 – *Plante medicinale autohtone*. Editura Institutul European.
15. **Robu T.** 2005 – *Monografia genului Iris*. Editura Ion Ionescu de la Brad Iași
16. Roman V ;I colab. 2011 / *Fitotehnie*, Vol. I, Editura universitară. București.
17. Stănescu Ursula și colab. 2014 – *Plante medicinale de la A la Z*. Ed. Polirom 2014
18. Toma Liana Doina, **Robu T.**, 1999, - *Principalele ciuperci comestibile si toxice*, Ed. Phue Iasi.
19. Wichtl Max, 1994 – *Herbal drugs and Phytopharmaceuticals* Editure Medpharm London.
20. \*\*\**Herboresteria Domani* 2000 -2005 – Studio Edizioni, Italia
- 21.\*\*\**1000 de plante medicinale*. 2007 – editura Aquila Oradea.

## Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Course	Exam	60%
Practical works	Tests + course and practical	40%

## Contact

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