
COURSE: PHARMACEUTICAL BOTANY

ACADEMIC YEAR: 2018-2019

TYPE OF EDUCATIONAL ACTIVITY: : Characterizing

TEACHER: Dott. Luigi Milella

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website:

phone: **0971205525**mobile (optional):

Language: **ITALIAN**

ECTS: **6 (5 lessons and 1
tutorials/practice)**n. of hours: **52 (40 lessons
and 12 tutorials/practice)**Campus: **Potenza**
Dept./School: **Department of
Sciences**
Program: **Pharmacy (LM-13)**Semester: **I**
(from 1 october 2018
to 20 december
2018 - 20 January
2019)

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The course is the first course that examines the basic elements of pharmaceutical botany, treating the classification, description and scope of application of the main classes of plant species of medicinal interest. The main objective of the course is to provide students with the basics to deal with the study of medicinal plants, for their recognition characterization and correct use

KNOWLEDGE AND UNDERSTANDING

- medicinal plants
- botanical characteristics
- distribution
- drugs and their therapeutic applications

CAPACITY TO APPLY KNOWLEDGE AND UNDERSTANDING

- Capacity of recognition of the medicinal species, of the plant structures of interest, of their correct use in the pharmaceutical field.
 - Recognition of the most widely used drugs in the pharmaceutical botanical field, the family, genus and species of the plants that contain them, the main morphological and histological structures of plants.
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PRE-REQUIREMENTSPlant and Cell Biology

SYLLABUS

10h

Introduction to the specific matter and cell development.

Segregation, excretion, mechanisms for the production of molecules of pharmaceutical interest.

10h + 6h lab

Systematics: definition and purposes. Criteria for classification of the vegetable kingdom; major taxonomic groupings. Sexual and asexual reproduction in different systematic groups: fungi, pteridophytes, gymnosperms. Angiosperms: morphological types of the plant; morphology and anatomy of the stem; morphology and anatomy of the leaf. Asexual and sexual reproduction; the flower and its morphology; types and morphology of fruits and seeds. For each species the botanical characters are treated, the drug is indicated and in some cases its morphological and anatomical and active ingredients.

20h + 6h lab

Pteridophytes /Spermatophytes/Gymnosperms/Angiosperms/Dicotyledons

Main characteristics of the following families: Ranunculaceae, Rosaceae, Cruciferous, Umbellifere, Mirtacee, Labiatae, Papaveraceae, Allium, Gramineae, Solanaceae.

TEACHING METHODSTheoretical lessons, Classroom tutorials, Laboratory tutorials, Project works, Technical visits.

EVALUATION METHODS

Intermediate verifications: Written examination, Practical test, Oral examination

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

Pharmaceutical Botany handbook, Authors: Maugini Elena; Maleci Bini Laura; Mariotti Lippi Marta
Piccin editor

INTERACTION WITH STUDENTS

Email contacts will be used for communication

EXAMINATION SESSIONS (FORECAST)¹

06/02/2019

07/03/2019

16/05/2019

06/06/2019

04/07/2019

12/09/2019

03/10/2019

04/12/2019

SEMINARS BY EXTERNAL EXPERTS YES NO

FURTHER INFORMATION

¹Subject to possible changes: check the web site of the Teacher or the Department/School for updates.