
COURSE: PHARMACEUTICAL BOTANY

ACADEMIC YEAR: II

TYPE OF EDUCATIONAL ACTIVITY: Characterizing)

TEACHER: Luigi Milella

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mobile (optional):

Language: italian

ECTS: 5 lessons + 1
tutorials /practice)n. of hours: 40 lessons 12
tutorials/practiceCampus: Potenza
Dept./School: Science
Program: PharmacySemester: I

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

Definition and objectives of Pharmaceutical Botany. Historical information on the use of Medicinal plants. I plant as a source of drugs of pharmaceutical interest. An outline of the development of systematic classification of plants and Linnaean nomenclature.

PRE-REQUIREMENTSPlant and Cell Biology, General chemistry

SYLLABUS

Introduction to the specific matter and cell development.

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

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.

Pteridophytes /Spermatophytes/Gymnosperms/Angiosperms/Dicotyledons

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

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

EVALUATION METHODSIntermediate 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 STUDENTSEmail contacts will be used for communication

EXAMINATION SESSIONS (FORECAST)¹[22 /02/2016](#)[16 /03/2016](#)[17 05/2016](#)

[7/06/2016](#)
[5/07/2016](#)
[20/09/2016](#)
[18/10/2016](#)
[15/11/2016](#)

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.