
COURSE: PHARMACOGNOSY

ACADEMIC YEAR: 2017-2018

TYPE OF EDUCATIONAL ACTIVITY: : Characterizing

TEACHER: Dott. Luigi Milella

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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 2 October
2017 to 31 January
2018)

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

This course is the most advanced introductions in Herbal Medicines that is offered. You will learn about Herbs, and their Science. Classification of Medicinal Plants, Phytochemistry, Carbohydrates, Lipids, Terpenes, Polyphenols, Alkaloids, Pharmacology, Toxicity, Formulations and Preparations of Herbal Medicines. How herbs influence our physiology and can be helpful against several disorders. Relations between Phyto-therapy and the Elderly, Phytotherapy and Children, Understanding Herbal Action, and Under standing the *Materia Medica*.

PRE-REQUIREMENTS

Basic knowledge of General inorganic chemistry and Animal and Plant Biology .

SYLLABUS

Definition and objectives of Pharmacognosy (10 hours). Information about the use of Medicinal plants. Plant as a source of drugs of pharmaceutical interest. An outline of the development of systematic classification of plants and Linnaean nomenclature.

Extraction procedures for natural compounds (10 hours + 6 hours of practice), their differences and their applications (20 hours + 6 hours of practice)

-biogenesis and biological activity of natural products coming from mevalonate: terpenoids and steroids;

- the biological activities of several compounds belonging to polyketides, terpenoids and steroids; and their traditional use and application in pharmaceutical and/or nutraceutical field,

- the main pathways of aromatic amino acids, alkaloids, phenylpropanoids

TEACHING METHODS

Theoretical 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

Pharmacognosy, Phytochemistry, Medicinal plants. J. Bruneton. Ed. Lavoisier

INTERACTION WITH STUDENTS

Email contacts will be used for communication

EXAMINATION SESSIONS (FORECAST)¹

22/02/2018

01/03/2018

17/05/2018

07/06/2018

05/07/2018

13/09/2018

04/10/2018

29/11/2018

SEMINARS BY EXTERNAL EXPERTS YES ☒ NO ☐

FURTHER INFORMATION

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