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**COURSE: PHARMACOGNOSY**

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**ACADEMIC YEAR: II**

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**TYPE OF EDUCATIONAL ACTIVITY: Characterizing**

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**TEACHER: Luigi Milella**

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website:

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mobile (optional):

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Language: italian

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

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**EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES**

This course is one of 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.

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**PRE-REQUIREMENTS**Plant and Cell Biology, General and Inorganic chemistry

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**SYLLABUS**

Definition and objectives of Pharmacognosy. 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, their differences and their applications

-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

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**TEACHING METHODS**Theoretical lessons, Classroom tutorials, Laboratory tutorials, Project works, Technical visits.

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**EVALUATION METHODS**Intermediate verifications: Written examination, Practical test, Oral examination

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TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

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

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INTERACTION WITH STUDENTS

Email contacts will be used for communication

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EXAMINATION SESSIONS (FORECAST)<sup>1</sup>

[22 /02/2016](#)

[16 /03/2016](#)

[17 /05/2016](#)

[7 /06/2016](#)

[5 /07/2016](#)

[20 /09/2016](#)

[18 /10/2016](#)

[15 /11/2016](#)

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SEMINARS BY EXTERNAL EXPERTS    YES ☐    NO ☐

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FURTHER INFORMATION

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