SCUOLA DI SCIENZE AGRARIE, FORESTALI, ALIMENTARI ED AMBIENTALI

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|---|---|---|---|
| COURSE: Fruit Trees | | | |
| ACADEMIC YEAR:2018/2019 | | | |
| TYPE OF EDUCATIONAL ACTIVITY: | | | |
| TEACHER: Vitale NUZZO | | | |
| e-mail: vitale.nuzzo@unibas.it | | website: | |
| phone: +39 0835 351403 | | mobile (optional): this service is not activated | |
| Language: Italian | | | |
| ECTS: 4 (lessons e tutorials/practice) | n. of hours: 40 (24+16) (lessons e tutorials/practice) | Campus: Potenza<br>Dept./School: School of agriculture, forestry, food and environmental sciences<br>Program: | Semester: II |

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The aims of the course has the general objective to provide the scientific and technical bases of fruit trees physiology and fruit production and post-harvest physiology. Investigate the morphological, physiological and

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EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The aims of the course has the general objective to provide the scientific and technical bases of fruit trees physiology and fruit production and post-harvest physiology. Investigate the morphological, physiological and agronomic aspects, highlighting the relationships plant/environment. Orchard plantation and its sustainable management in order to increase productivity, fruits quality and reduce the application of the external inputs to the orchard system. Provide hints about the characteristics of the main species cultivated in Italy.

PRE-REQUIREMENTS

The following knowldege:

General and Inorganic Chemistry: Oxidation number, pH, redox potential, chemical bond;

Organic Chemistry: Structure and Nomenclature of organic molecules;

Genetics: Cell structure, DNA, Heredity.

SYLLABUS

***Introduction to fruits trees cultivation and production*** *(Organography; Photosynthesis, Respiration; Phytohormones)*

**Annual cycle** (Bud dormancy, Vegetative and reproductive growth, maturation and ripening, fruit tree composition)

**Orchard setting and sustainable management**

TEACHING METHODS

*This course is a 40 hours of classroom theoretical lessons (24 hours) and tutorial activities, project works, (16 hours). Lectures will be supported by blackboard use, slides projection, Workshops with national experts; Exercises, analysis and study cases discussions*

EVALUATION METHODS

Oral examination

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

The didactic materials consists of textbooks, slides and scientific papers, mailed to the student before or just after the lesson

**Textbook**

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**Textbook**

Enrico Baldini -Bruno Marangoni: Coltivazione arboree Thema Clueb

**Other text:**

- Sansavini S., Costa G., Gucci R., Inglese P., Ramina A., Xiloyannis C. Arboricoltura generale. Patron Editore, pp 532 ISBN: 9788855531894

**Journal and web links**:

Frutticoltura

Terra e Vita (Edagricole),

L´Informatore Agrario., http://www.informatoreagrario.it/

http://listevarietali.imagelinenetwork.com/

http://www.fao.org/hortivar/index.jsp

http://www.agraria.it/isf/ Publ.htm

http://www.caf.wvu.edu/kearneysville/wvufarm7.html

http://www.ismea.it

INTERACTION WITH STUDENTS

The first lesson the structure and organization of the course and the evaluation procedure will be presented.

The teaching material (slide print-outs) will be made available to students by e-mail or by a common dropbox file.

The lecturer will be available for receiving students in Matera (via Castello) on Monday from 9.00 to 11.00 and Wednesday from 9.30 toe 11.30) or in other days after appointment.

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EXAMINATION SESSIONS (FORECAST)[1]

*11/09/2018, 16/10/2018, 13/11/2018, 11/12/2018, 15/01/2019, 12/02/2019, 12/03/2019, 12/04/2019, 12/05/2019; 12/06/2019, 16/07/2019; 17/09/2019; 15/09/2019; 12/11/2019; 10/12/2019*

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.